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WOODARD &CURRAN

June 7, 2013

Ms. Kimberly Tisa
PCB Coordinator
U.S. Environmental Protection Agency Region 1
5 Post Office Square – Suite 100
Boston, Massachusetts 02109-3912

RE: Final Completion Report
Harvard Law School – Pound Hall
Cambridge, Massachusetts

Dear Ms. Tisa:

On behalf of the President and Fellows of Harvard College, Woodard & Curran has prepared and is submitting this Final Completion Report to comply with U.S. Environmental Protection Agency (EPA) requirements under 40 CFR 761 and in accordance with Condition 20 of EPA's January 26, 2012 PCB Cleanup and Disposal Approval under 40 CFR 761.61(a) and (c) and 761.79(h). This Report includes a narrative description of the PCB remediation activities, laboratory analytical data, and copies of waste shipment records generated in association with the work completed at the above-referenced site. In addition, a draft deed restriction applicable to the former concrete foundation wall sections left in place below finished grade has been included as an appendix to this report.

If you have any comments, questions, or require further information, please do not hesitate to e-mail or call me at the number listed above.

Sincerely,

WOODARD & CURRAN INC.

Jeffrey Hamel, LSP, LEP
Senior Vice President

Project Number 223868

Enclosure(s)

cc: Gordon Reynolds, Harvard

FINAL COMPLETION REPORT

Pound Hall Partial Demolition

Harvard University
Cambridge, Massachusetts

Project No. 223868

Harvard Law School

June 2013

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COMMITMENT & INTEGRITY DRIVE RESULTS

TABLE OF CONTENTS

SECTION **PAGE NO.**

1. INTRODUCTION 1-1

1.1 Site Description 1-1
1.2 Site Background 1-2
1.3 Project Timeline 1-2
1.4 Project Team 1-3

2. REMEDY IMPLEMENTATION 2-1

2.1 Remedy Overview 2-1
2.1.1 Notifications and Controls 2-1
2.1.2 Sampling & Analytical Methods 2-1
2.2 Ground Surface Remediation 2-2
2.2.1 Excavation and Verification 2-2
2.3 Interior Remediation 2-3
2.3.1 PCB ≥ 50 ppm Caulking 2-3
2.3.2 Interior Partition Windows and Doors 2-4
2.3.3 Interior Brick 2-4
2.3.4 Interior Concrete 2-7
2.3.5 Pedestrian Ramp 2-12
2.3.6 Slate Floor Tiles 2-13
2.3.7 Excluded PCB Products 2-13
2.4 Exterior Remediation 2-13
2.4.1 PCB ≥ 50 ppm Caulking 2-14
2.4.2 Exterior Windows and Doors 2-14
2.4.3 Exterior Brick 2-14
2.4.4 Exterior Concrete 2-15
2.4.5 Excluded PCB Products 2-17
2.5 Roof Remediation 2-18
2.5.1 PCB ≥ 50 ppm Caulking 2-18
2.5.2 Adjacent Metal Components 2-19
2.5.3 Adjacent Masonry Components 2-19
2.6 Basement Remediation 2-21
2.6.1 EQ Wayne Disposal 2-22
2.6.2 Minerva Enterprises 2-23
2.6.3 Turnkey Recycling and Environmental Enterprises 2-23
2.6.4 Concrete Remaining On-Site 2-24
2.7 Waste Storage and Disposal 2-24
2.8 Air Monitoring 2-25
2.9 Demolition & Site Restoration 2-25

3. DATA QUALITY ASSESSMENT 3-1

3.1 Precision 3-1
3.2 Accuracy 3-1
3.3 Representativeness 3-1
3.4 Completeness 3-2

3.5 Comparability 3-2
3.6 Sensitivity 3-2

4. SUMMARY AND CONCLUSIONS 4-1

LIST OF TABLES

Table 2-1: Ground Surface Characterization Data
Table 2-2: Post Excavation Soil Verification Data
Table 2-3: Interior Pre-Removal Verification Data
Table 2-4: Interior Post-Removal Verification Data
Table 2-5: Exterior Pre-Removal Verification Data
Table 2-6: Exterior Post-Removal Verification Data
Table 2-7: Roof Pre-Removal Verification Data
Table 2-8: Roof Post-Removal Verification Data
Table 2-9: Basement Characterization Data

LIST OF FIGURES

Figure 1-1: Campus Map (embedded in text)
Figure 2-1: Pre-Excavation Data and Proposed Limits of Excavation
Figure 2-2: Post-Excavation Data and Final Limits of Excavation
Figure 2-3: First Floor Remediation Areas and Sample Locations
Figure 2-4: Second Floor Remediation Areas and Sample Locations
Figure 2-5: Third Floor Remediation Areas and Sample Locations
Figure 2-6: Exterior Façade Remediation Areas and Sample Locations
Figure 2-7: Roof Remediation Areas and Sample Locations
Figure 2-8: Basement Characterization Data
Figure 2-9: Basement Materials Management Plan

APPENDICES

Appendix A: EPA Approval (January 26, 2012)

Appendix B: Laboratory Analytical Reports

Appendix C: Concrete Ceiling Details

Appendix D: MassDEP Correspondence

Appendix E: Draft Deed Notice

Appendix F: Waste Shipment Records

Appendix G: Data Validation Summaries

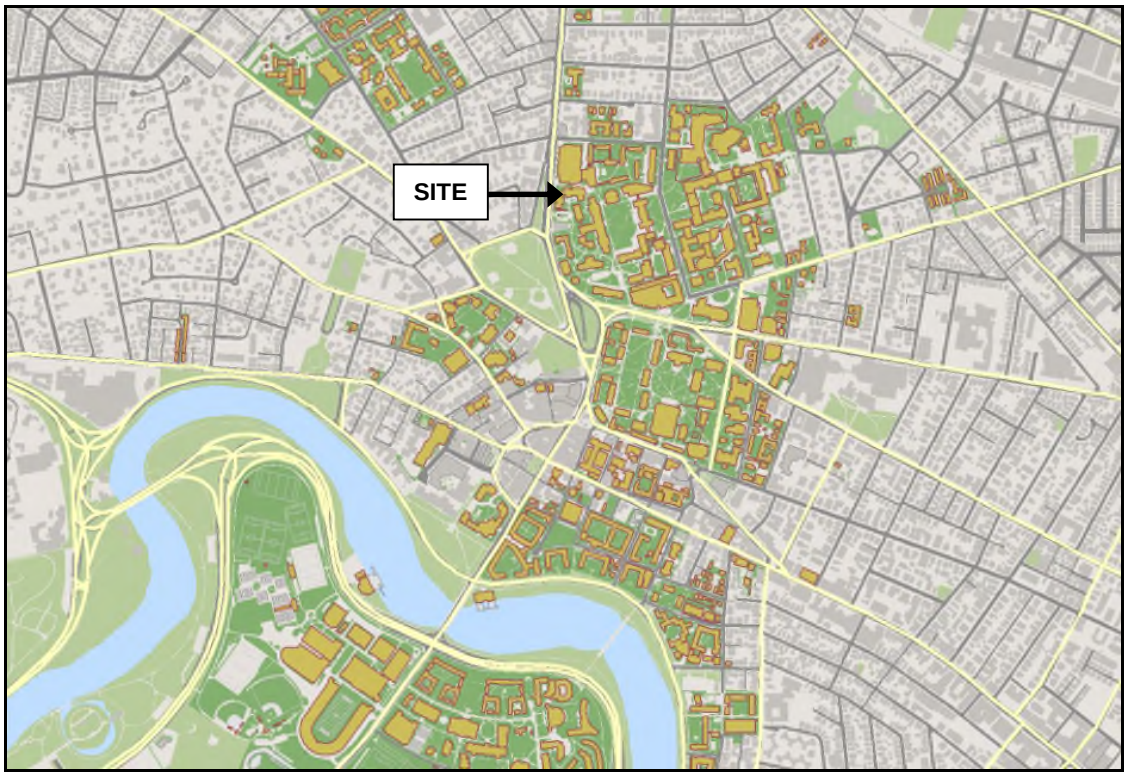
1. INTRODUCTION

Woodard & Curran has prepared this Final Completion Report on behalf of the President and Fellows of Harvard College, acting by and on behalf of the Harvard Law School (Harvard). This Report documents the polychlorinated biphenyl (PCB) remediation activities performed in association with a partial demolition project implemented at Pound Hall, located at 1563 Massachusetts Avenue in Cambridge, Massachusetts (the Site). The remediation of PCBs at the Site was completed in accordance with the Notification and the U.S. Environmental Protection Agency's (EPA) January 26, 2012 PCB Cleanup and Disposal Approval granted under 40 CFR 761.61(a) and (c) and 761.79(h) (the Approval), as modified by subsequent submittals.[1] A copy of the Approval is provided as Appendix A to this Report.

1.1 SITE DESCRIPTION

Pound Hall is a Harvard Law School classroom and faculty office building located on the western side of the campus, bounded by Wasserstein Hall and the Caspersen Student Center to the north, Langdell Hall and the Lewis Law Building to the east and south, and Massachusetts Avenue to the west. The building, originally constructed in 1968, is constructed primarily of concrete and brick masonry and ranges between three and five stories high. Surrounding ground surfaces are generally flat in elevation and consist of paved and unpaved surfaces.

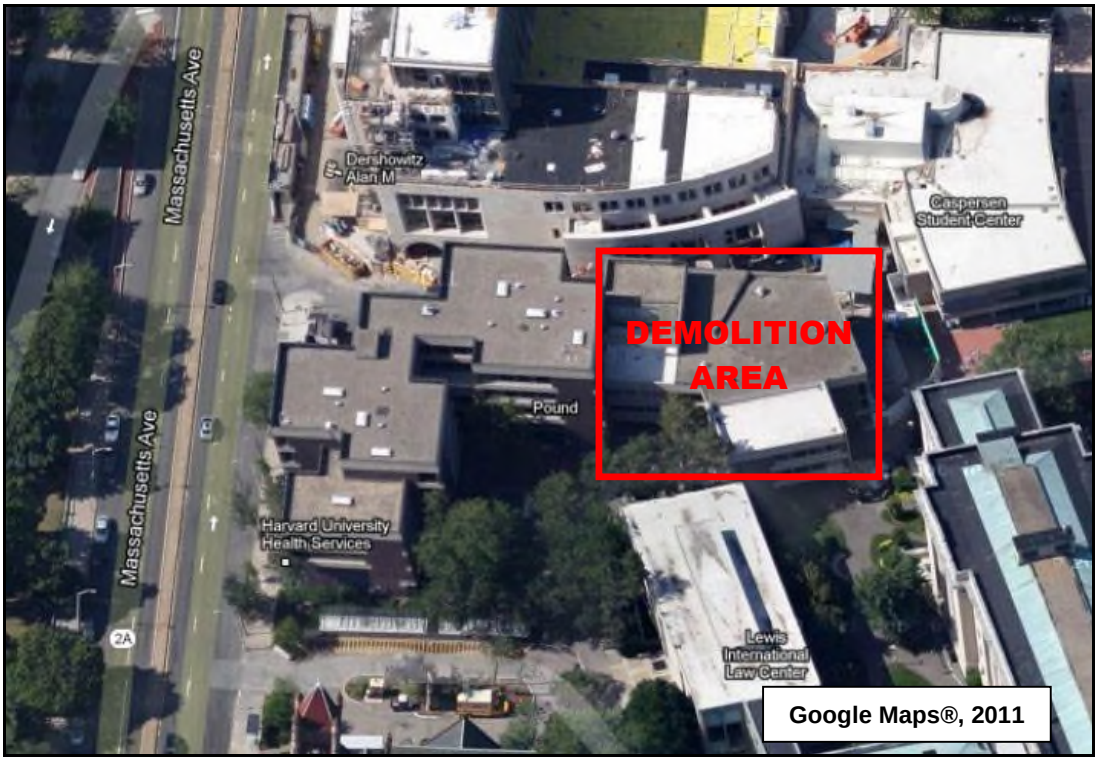
Figure 1-1: Campus Map



[1] Information was prepared by Woodard & Curran on behalf of Harvard to satisfy the requirements under 40 CFR 761.61(a) and (c) and 761.79(h). Information was submitted on October 31, 2011 (PCB Remediation Plan; the "Plan"); January 17, 2012 (Response to EPA Comments); February 3, 2012 (Plan Modification Request – Ground Surfaces); June 7, 2012 (Plan Modification Request – Basement Concrete); and June 12, 2012 e-mail clarification and Response to EPA Comments. These submittals, together, form the "Notification."

1.2 SITE BACKGROUND

As part of a campus-wide renovation plan, approximately 32,000 gross square feet (ft^2) of the eastern end of Pound Hall was designated for demolition in 2012 (the "Demolition Area"). The Demolition Area is depicted in an aerial photo below:



Pound Hall was originally constructed during a time period when PCBs were sometimes used in certain building materials (i.e., caulking). Given the presence of caulking at certain exterior and interior joints, the potential for caulking to contain PCBs due to the 1968 construction date, and the knowledge that it would be disturbed during the demolition project, caulking materials present at the Site were surveyed and sampled to determine whether PCBs were present in these materials.

Laboratory analytical results indicated that certain caulking materials contained PCBs at concentrations greater than 50 parts per million (ppm). Adjacent building materials and ground surfaces were sampled to determine whether PCBs had migrated from the caulking into these adjacent materials, and the characterization data confirmed that detectable concentrations of PCBs were present in certain adjacent materials at regulated concentrations. These results were used to develop a remedial strategy that was incorporated into the overall partial demolition project plans as presented in the Notification.

1.3 PROJECT TIMELINE

The following submittals and major project milestones are presented below as a general project timeline:

- PCB Remediation Plan submitted to EPA (October 31, 2011);
- EPA comments and Woodard & Curran response to comments on the Plan (January 17, 2012);

- EPA Approval of the PCB Remediation Plan (January 26, 2012);
- Submittal of Plan Modification Request – Soil Remediation Plan; and, submittal of signed certifications and contractor workplan to EPA (February 3, 2012);
- EPA comments on Plan Modification Request and contractor workplan (February 13, 2012);
- Responses to EPA comments on the Plan Modification Request and contractor workplan submitted to EPA; EPA acknowledges no further comments on plans (February 16, 2012);
- Soil and asphalt excavation work begins (February 21, 2012);
- Phased remediation and verification of interior, exterior, and roof locations, excluding basement, completed (March - June 2012);
- Interior verification data submittal to EPA (March 28, 2012);
- Submittal of Plan Modification Request – Basement Conditions (June 7, 2012);
- EPA comments and Woodard & Curran response to comments on the Plan Modification Request – Basement Conditions (June 12, 2012);
- EPA Approval of the Plan Modification Request – Basement Conditions (June 13, 2012);
- Removal of coated basement concrete walls and ceilings (July – August 2012); and
- Removal of PCB waste materials associated with the project (July 2012 – August 2012).

1.4 PROJECT TEAM

The remediation project team consisted of the following parties:

- President and Fellows of Harvard College – Owner;
- CSL Consulting, LLC – Owner's Project Manager;
- Dimeo Construction Company – General Contractor;
- Woodard & Curran – Environmental Consultant (PCB remediation);
- NASDI, LLC and Yankee Environmental Services, LLC – Remediation Subcontractors (PCB remediation – building materials); and
- C. J. Mabardy – Remediation Subcontractor (PCB remediation – earthwork).

2. REMEDY IMPLEMENTATION

This section describes the PCB cleanup and disposal activities performed at the Site consistent with the Notification and the Approval. The sequence of remediation activities presented in this Report generally follows the chronological sequence of events as it was implemented in the field. The field component of the PCB remediation work began in February 2012 and was completed in August 2012.

2.1 REMEDY OVERVIEW

The objective of the PCB remediation work was to segregate and remove building materials containing PCBs over the unrestricted use cleanup level of 1 ppm prior to structural demolition of the portion of the building identified as the Demolition Area. To achieve this objective, the remedial approach consisted of the removal of PCB-containing materials for off-site disposal, including certain interior and exterior caulking, adjacent metal window and door frame components, adjacent concrete and brick masonry, adjacent ground surface media including asphalt and soil, and other miscellaneous features as described herein. As described in the basement modification submittal, this work also included the removal of painted concrete walls and ceilings from the basement portion of the Demolition Area.

In order to delineate the extent of PCBs above the 1 ppm cleanup level, samples were collected before and after the removal or segregation of each media at the frequencies specified in the Notification. Analytical results from these samples were evaluated to determine whether removals were complete (or, to confirm that sufficient cut lines had been established) by comparison to the following criteria:

- Analytical results > 1 ppm for porous media (bulk samples) – Removal incomplete; or, proposed cut line insufficient. Additional removal and further verification samples were collected at the specified frequency until cleanup level achieved.
- Analytical results ≤ 1 ppm for porous media (bulk samples) – removal complete; or, proposed cut line confirmed to be sufficient at the distance represented by the sample location.

2.1.1 Notifications and Controls

Prior to initiating the remedial activities, notifications and controls were implemented as described in Section 3.2 of the PCB Remediation Plan and subsequent Modifications. These preparations included the submittal of a notification and certifications to EPA, development of health and safety plans, establishment of site access controls, mobilization of lifts and other equipment to access certain work areas, Dig Safe marking and notification, above-ground removal of excess vegetation and small-diameter trees within excavation areas, and the establishment of work zone barriers and/or containments around work areas.

2.1.2 Sampling & Analytical Methods

Characterization and verification samples collected in support of the remediation activities described herein were collected in accordance with generally accepted procedures for environmental sampling. Unless otherwise noted, concrete, brick, and soil sampling was conducted consistent with the EPA Region I *Standard Operating Procedure for Sampling Porous Surfaces for PCBs* (Revision 4, May 2011). Surface wipe samples were collected over 100 square centimeter (cm^2) areas using hexane-saturated gauze wipes in accordance with the standard wipe test method under 40 CFR 761.123. Tools used for sample collection were decontaminated between each sample location.

Samples were transferred to ConTest Analytical Laboratory of East Longmeadow, Massachusetts under standard chain of custody procedures. Samples were extracted using USEPA Method 3540C (Soxhlet extraction) and

analyzed for PCBs using USEPA Method 8082. Electronic versions of the laboratory analytical packages are provided in Appendix B.

2.2 GROUND SURFACE REMEDIATION

The remedial approach for PCB-impacted ground surfaces consisted of the removal and off-site disposal of asphalt and soils containing PCBs above the 1 ppm cleanup level. This work was performed prior to exterior building remediation activities in order to prevent the spread of impacted ground surface materials via equipment travel and in advance of the site regrading work proposed as part of the overall project plans.

The soil removal activities were performed to satisfy the conditions of EPA's Approval as well as requirements of the Massachusetts Department of Environmental Protection (MassDEP) under the Massachusetts Contingency Plan (MCP; 310 CMR 40.0000). The soil removal portion of the work was performed as an Immediate Response Action (IRA) under the MCP (Release Tracking Number 3-30570), and a Class A-2 Response Action Outcome (RAO) Statement was submitted to MassDEP on December 5, 2012.

Drawings depicting the sample locations described in this section are provided as Figure 2-1 (Pre-Excavation Data and Proposed Limits of Excavation) and Figure 2-2 (Post-Excavation Data and Final Limits of Excavation). Tables presenting the laboratory analytical data are included as Table 2-1 (Ground Surface Characterization Data) and Table 2-2 (Post Excavation Soil Verification Data).

2.2.1 Excavation and Verification

The soil removal activities were conducted by C. J. Mabardy of Cambridge, Massachusetts. Dust monitoring and verification soil sampling activities were conducted by Woodard & Curran.

Soil removal areas were marked and confirmed by Woodard & Curran prior to beginning excavation. C. J. Mabardy used either a small hydraulic excavator or a backhoe loader for soil removal activities, and live-loaded from the excavation areas into lined roll-off containers staged adjacent to the excavation. Upon filling a container, the liner was sealed and the container was covered for temporary on-site staging until off-site shipment. Containers used to store PCB materials were marked in accordance with 40 CFR 761.40, and were stored in accordance with 40 CFR 761.65.

PCB-impacted soils were removed from an area covering approximately 340 square feet around portions of the building perimeter. Initial proposed excavation depths began at approximately 6 inches for soils beneath removed asphalt, and ranged from 12 to 24 inches bgs in unpaved areas. The removal of PCB-impacted soils at the Site was initiated in February and completed in March of 2012.

Upon achieving the proposed excavation depth in a given area, Woodard & Curran inspected the area and collected post-excavation samples from the base of excavation in accordance with a 40 CFR 761.280 (Subpart O) sampling plan. Verification samples were collected on a 5-foot grid at a depth of 0-3 inches below the excavation base (see Figure 2-2).

If initial verification sample results indicated that PCB concentrations were ≤ 1 ppm, the removal was considered complete. If initial verification sample results indicated that PCB concentrations remained above 1 ppm, additional soil removal was conducted and additional verification sampling was performed at an off-set grid until results confirmed that residual PCB levels were ≤ 1 ppm. In cases where additional removal was performed, each sample's minimum area of inference extended laterally to the nearest point reported ≤ 1 ppm. Upon review of the data, only 1 of the initial 14 sample locations was reported with PCBs > 1 ppm (sample location 270). An additional 6 inches of

soil was removed from this location, and the subsequent verification sample (location 289) was reported with PCBs < 1 ppm.

Hand tools and other non-disposable items were decontaminated as needed throughout the work day by wet wiping. At the completion of the work, any non-disposable equipment was decontaminated in accordance with 40 CFR 761.79(c) by wiping with diesel-soaked rags.

The in-place volume of soils excavated from the Site totaled approximately 12 cubic yards based on the excavation area (340 square feet) and excavation depths in each area as shown on Figure 2-2. The maximum depth of excavation at any location was 24 inches. Given the density of soils and slight volumetric expansion expected upon removal from the ground, this value is consistent with the volume of disposed soils reported by the disposal facility (17.9 tons). Refer to Section 2.7 for a complete waste disposal summary and documentation.

Following completion of the removal activities and verification that the cleanup levels had been met, the excavations were temporarily backfilled as needed to support the pending building remediation and demolition work. Final site restoration work was performed as described in Section 2.9 of this Report.

2.3 INTERIOR REMEDIATION

This section documents the removal and off-site disposal of PCB caulking and adjacent building materials in direct contact or coated with PCB caulking from interior portions of the Demolition Area (*excluding the basement; refer to Section 2.6*). As presented in the Notification, PCB source materials (i.e., caulking or glazing sealants) were located at interior locations including window frames and panes (within exterior walls), partition window frames and panes, door frames, and masonry joints. The estimated quantities of PCB caulking or adjacent media as presented in the Notification are updated in each section below.

The remedial approach included the collective removal of PCB source materials along with the coated window or door frames, followed by segregation of adjacent porous masonry materials by implementing a “cut line” remediation approach. Masonry on one side of the cut line (containing PCBs above the cleanup level) were managed for off-site disposal as ≥ 50 ppm PCB waste. Materials on the other side of the cut line (containing PCBs below the cleanup level) were considered unrestricted for disposal under 40 CFR 761 and were subsequently transported off-site as construction & demolition debris generated during the post-abatement structural demolition of the building.

Table 2-3 presents the pre-removal verification data at the established cut line for each interior media subject to verification sampling, and Table 2-4 presents the post-removal verification data for each media subject to post-removal sampling. Drawings depicting the interior remediation areas and sample locations are provided as Figure 2-3 (First Floor), Figure 2-4 (Second Floor), and Figure 2-5 (Third Floor).

2.3.1 PCB ≥ 50 ppm Caulking

Interior caulking identified with PCBs ≥ 50 ppm as described in the Notification was removed for off-site disposal as PCB waste ≥ 50 ppm. The quantity of PCB ≥ 50 ppm interior caulking estimated in the Notification vs. the quantity measured in the field during implementation is summarized below:

Joint Type	Notification Estimate (l.f.)	Field Measurement (l.f.)
Windows/doors in an exterior wall	1,675	1,510
Interior partition windows/doors	1,000	985

Joint Type	Notification Estimate (l.f.)	Field Measurement (l.f.)
Interior masonry joints (wall to ceiling)	1,100	442
Total Quantity	3,775	2,937

The difference in the estimated vs. measured quantity of the interior masonry joint caulking is primarily attributable to limited interior access for the purposes of surveying the full extent of the material prior to submitting the Notification. The estimate provided in the Notification assumed that all interior wall to ceiling joints were caulked; however, subsequent field inspections after selective demolition of drywall and other non-masonry wall finishes indicated that caulking was present only at the brick wall to concrete ceiling joint.

Gross caulking removal was completed under proper site controls using hand tools (e.g., utility knives, hand scrapers/putty knives, and/or caulking removal guns) in accordance with the Notification and the Contractor Workplan prepared by Yankee Environmental Services, LLC. Ultimate removal of caulking remnants adhered to metal frames or adjacent masonry was achieved by complete removal of the coated building material in its entirety as described further below. Waste materials were bagged within each work area prior to being transported to a lined roll-off container staged outside the building within the boundaries of the project site.

2.3.2 Interior Partition Windows and Doors

Interior partition windows and door frames identified with PCB ≥ 50 ppm caulking as described in the Notification were removed in their entirety for off-site disposal as PCB waste ≥ 50 ppm. Waste materials were bagged within each work area prior to being transported to a lined roll-off container staged outside the building within the boundaries of the project site. Because the window and door frame materials were removed in their entirety, no post-removal verification sampling was warranted for this waste stream. Adjacent brick or concrete masonry was removed and subject to verification sampling as described below.

As noted in Section 2.3.1, the quantity of PCB ≥ 50 ppm interior caulking at the perimeter of interior partition window and door frames was estimated at 1,000 l.f. in the Notification. The actual quantity of PCB ≥ 50 ppm interior caulking at the perimeter of these windows was measured at approximately 985 l.f. during remedy implementation.

2.3.3 Interior Brick

Interior bricks adjacent to caulking identified with PCBs ≥ 50 ppm as described in the Notification were segregated by implementing a “cut line” remediation approach and were managed for off-site disposal as PCB waste ≥ 50 ppm. The quantity of bricks in direct contact with PCB ≥ 50 ppm interior caulking estimated in the Notification vs. the quantity measured in the field during implementation is summarized below for each of the three joint types where interior brick was present:

Brick Joint Type	Notification Estimate (l.f.)	Field Measurement (l.f.)
Windows/doors in an exterior wall	575	510
Interior partition windows/doors	550	477
Interior masonry joints (wall to ceiling)	1,100	442
Total Quantity	2,225	1,429

As noted in Section 2.3.1, the difference in the estimated vs. measured quantity of the bricks adjacent to interior masonry joint caulking is primarily attributable to limited interior access for the purposes of surveying the full extent of

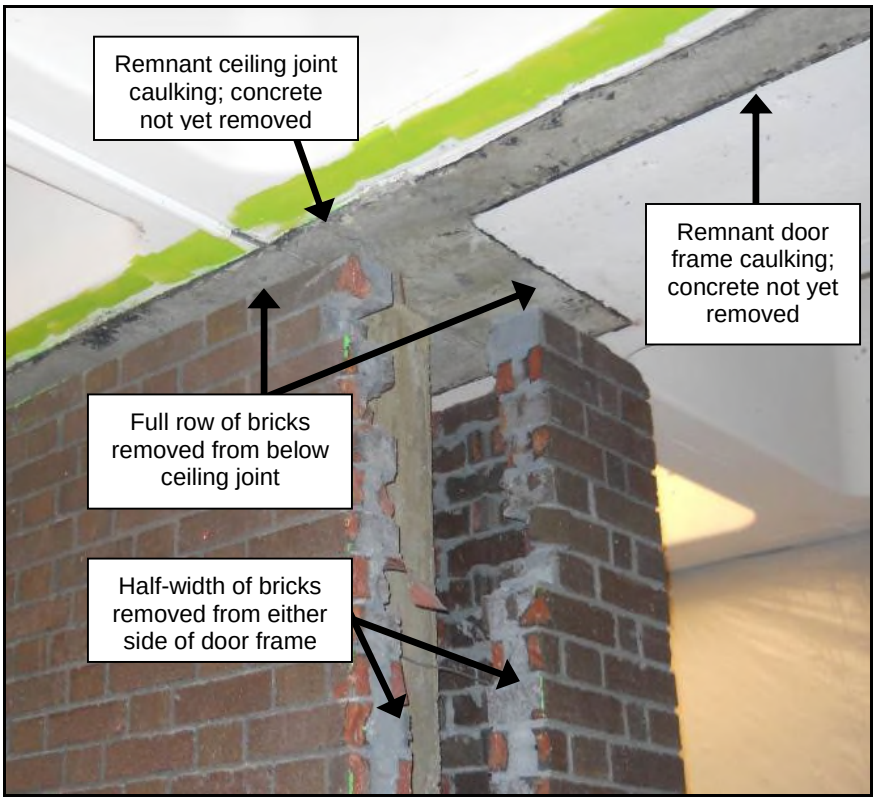
the wall to ceiling joints prior to submitting the Notification. The estimate provided in the Notification assumed that all interior wall to ceiling joints were caulked or that a brick wall may have been present beneath drywall; however, subsequent field inspections after selective demolition of drywall and other non-masonry wall finishes indicated that caulking was present only at the brick wall to concrete ceiling joint.

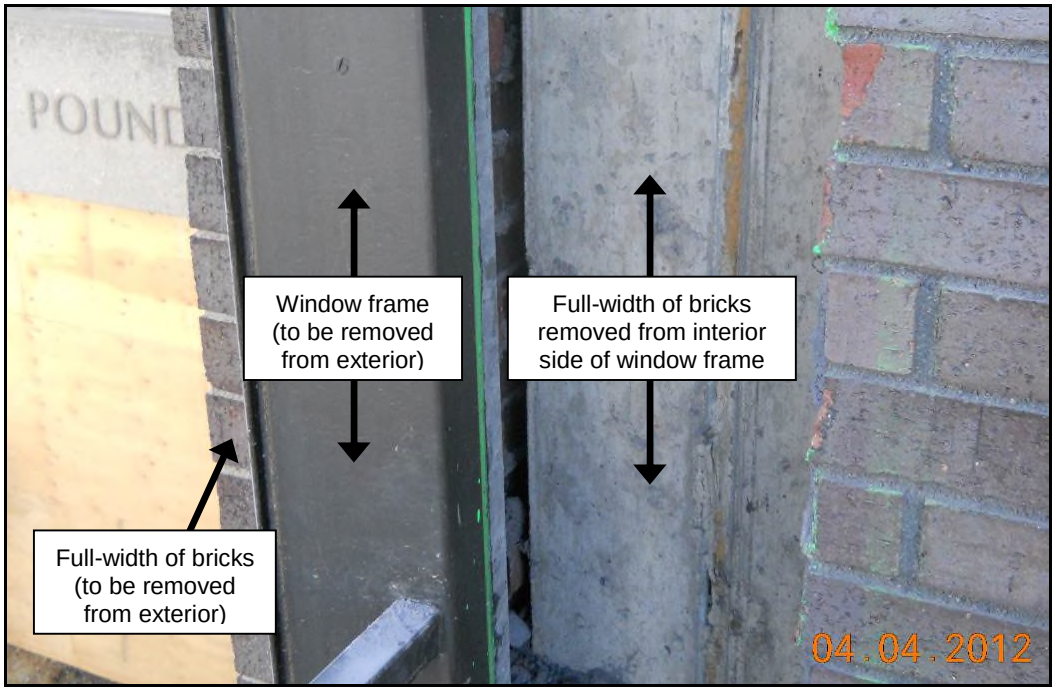
Minimum cut lines for each of the three joint types identified above were proposed in the Notification; however, additional pre-removal samples were required to meet the minimum sample frequency (1 sample per 100 l.f.) and to confirm the proposed minimum cut lines prior to beginning the remediation work. Based on the sampling data presented in Table 2-3, the cut lines for each interior brick joint type were ultimately established as follows:

Brick Joint Type	Cut Line Proposed at Notification	Cut Line Established After Sample Collection	No. Samples at Cut Line Interval
Windows/doors in an exterior wall (510 l.f.)	Half-brick width from vertical joint (4.5”)	Full-brick width from vertical joint (8”)	6
Interior partition windows/doors (477 l.f.)	Half-brick width from vertical joint (4.5”)	Half-brick width from vertical joint (4.5”)	5
Interior masonry joints (wall to ceiling) (442 l.f.)	First row of bricks below horizontal joint (2.5”)	First row of bricks below horizontal joint (2.5”)	6

After the cut lines had been established as described above, the lateral extent of brick removal was marked out from each joint to the proposed cut line with green spray paint. After gross caulking removal, bricks within the established cut lines were removed by hand using a combination of chipping guns, chisels, and pry bars. Post-removal inspections were performed to confirm that bricks within the marked removal area had been removed in their entirety. The remaining interior bricks were then marked in the field with pink spray paint to communicate to on-site personnel that the location had met visual inspection criteria. No post-removal verification samples were collected from the interior bricks, as the full depth of the bricks within the established cut line were removed in their entirety.

A photo taken after applying brick markouts and after removal of an interior partition window (but prior to removing the bricks) is provided at right. Photos of interior brick removal areas adjacent to an interior door, ceiling, and an exterior window are provided on the following page.





PCB waste materials were loaded into polyethylene bags prior to removal from the work area, and the bags were transferred to lined roll-off containers staged in the courtyard adjacent to the work area. The caulking and adjacent masonry waste materials generated from within the established cut lines were managed for off-site disposal as PCB waste ≥ 50 ppm.

2.3.4 Interior Concrete

Interior concrete adjacent to caulking identified with PCBs ≥ 50 ppm as described in the Notification was segregated by implementing a "cut line" remediation approach and was managed for off-site disposal as PCB waste ≥ 50 ppm. The quantity of concrete in direct contact with PCB ≥ 50 ppm interior caulking estimated in the Notification vs. the quantity measured in the field during implementation is summarized below:

Concrete Joint Type	Notification Estimate (l.f.)	Field Measurement (l.f.)
Windows/doors in an exterior wall	1,100 (550 headers; 550 sills)	1,000 (500 headers; 500 sills)
Interior partition windows/doors	450	508
Interior masonry joints (wall to ceiling)	1,100	442
Total Quantity	2,650	1,950

As noted above, the difference in the estimated vs. measured quantity of the concrete adjacent to interior masonry joint caulking is primarily attributable to limited interior access for the purposes of surveying the full extent of each material prior to submitting the Notification. The estimate provided in the Notification assumed that all interior wall to ceiling joints were caulked; however, subsequent field inspections after selective demolition of drywall and other non-masonry wall finishes indicated that caulking was present only at the brick wall to concrete ceiling joint.

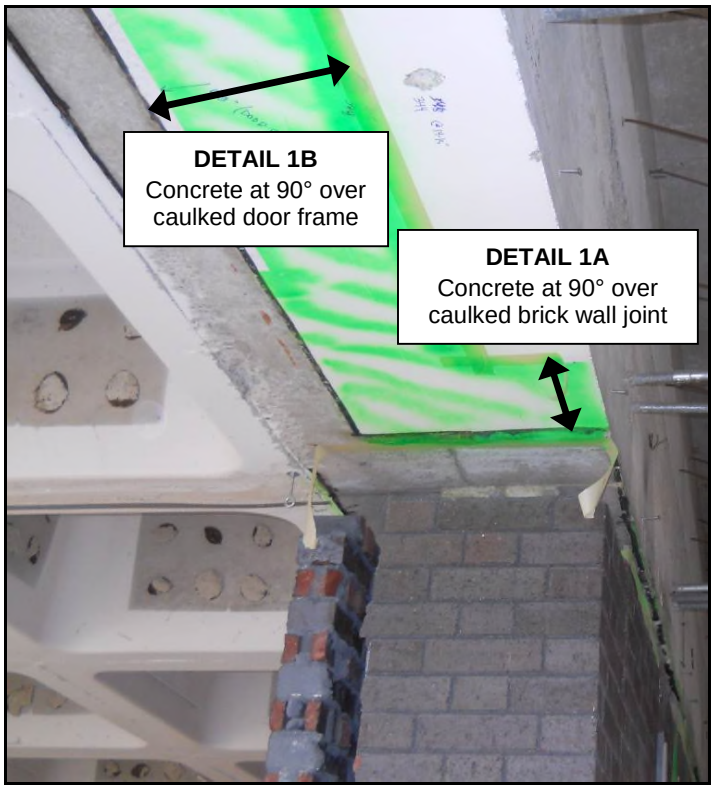
Minimum cut lines for each of the three joint types identified above were proposed in the Notification at a distance of 3 inches from the caulked joint. This proposed minimum cut line was initially based on the cut line established for exterior concrete where a more extensive data set had been established, as the pre-removal sample data set from interior concrete was limited to 7 sample locations (5 of which were reported with PCBs > 1 ppm). As a result, additional pre-removal samples were required to meet the minimum sample frequency (1 sample per 100 l.f.) and to confirm the proposed minimum cut lines prior to beginning the remediation work.

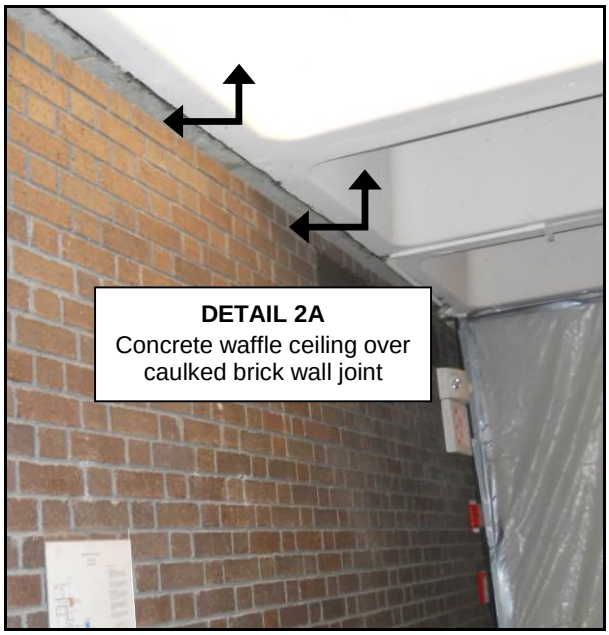
Further characterization of the interior concrete after Notification submittal (and after the building was vacated and access was unrestricted) resulted in further classification of distinct concrete ceiling joint types, which in turn resulted in different PCB migration patterns depending on the ceiling construction type. The joint types were identified as follows:

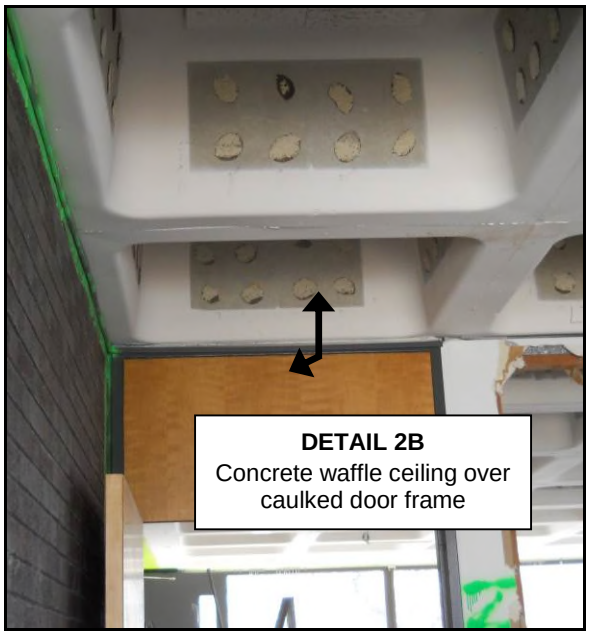
- **Detail 1**: flat concrete ceiling extends in front of caulked joint at 90-degree angle
    - **Detail 1A** identifies joints above brick walls
    - **Detail 1B** identifies joints above interior or exterior windows and doors
- **Detail 2**: concrete waffle ceiling extends in front of caulked joint at 90-degree angle
    - **Detail 2A** identifies joints above brick walls
    - **Detail 2B** identifies joints above interior or exterior windows and doors
- **Detail 3**: flat concrete ceiling extends above caulked joint at a 180-degree angle.
    - **Detail 3A** identifies joints above brick walls
    - **Detail 3B** identifies joints above interior or exterior windows and doors

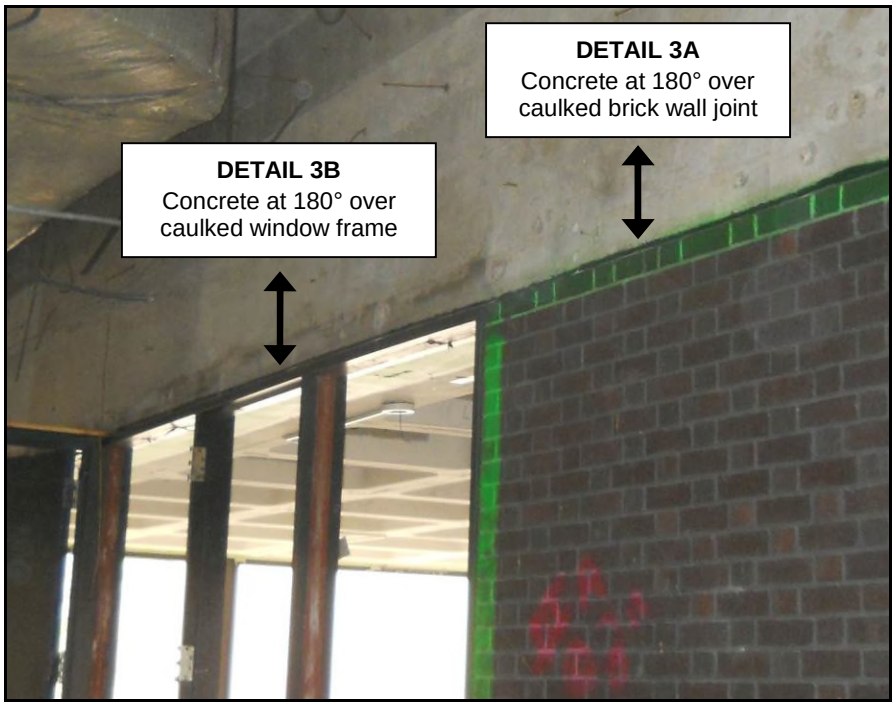
In addition, the extent of PCB impacts at two other types of interior concrete joints were also delineated during this pre-removal characterization phase: the interior portion of the concrete window sills below caulked window joints, and concrete walls beside vertical joints at stairwell and penthouse windows and doors.

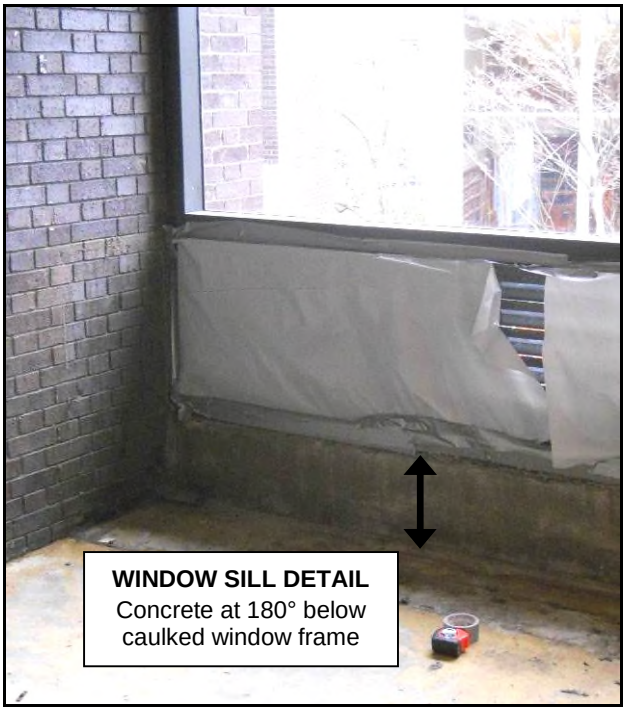
Photos of each of these details are provided below, and detail drawings depicting the joint types and applied cut lines is provided in Appendix C.

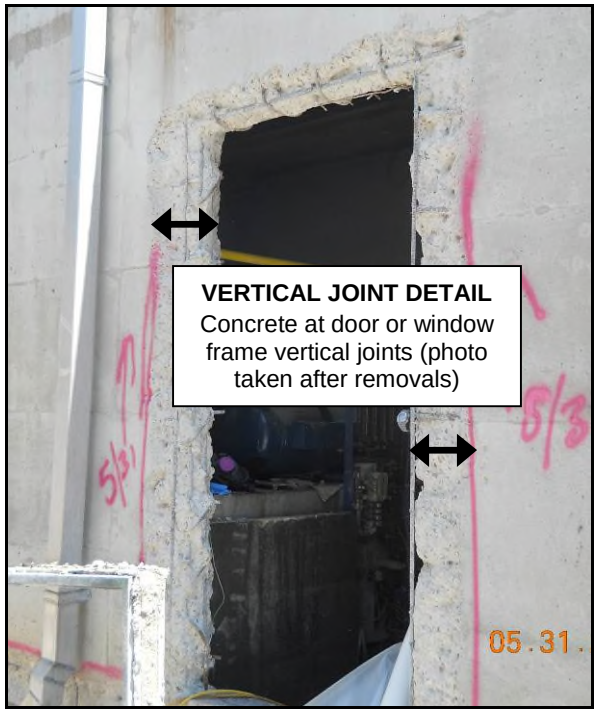










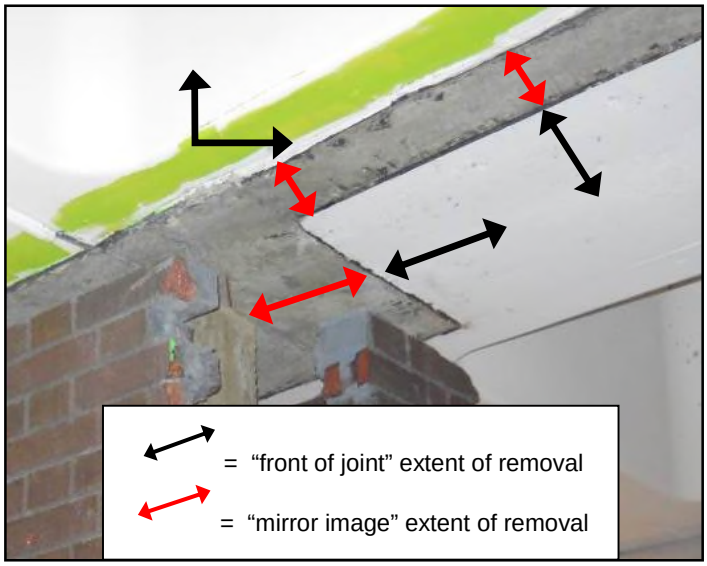


The windows and doors within the stairwells and at the roof mechanical room penthouses were different from other windows and doors within the Demolition Area due to the presence of concrete along both horizontal and vertical joints; all other windows and doors were set into concrete masonry at horizontal joints and brick masonry at vertical joints. The stairwells are identified as Stair 3 and Stair 4 on each of the interior drawings. The quantity of concrete in direct contact with PCB ≥ 50 ppm caulking at these windows and doors was not estimated in the Notification, but is included with the interior window/door joint total (508 l.f.) discussed in this section.

Based on the sampling data presented in Table 2-3, the cut lines for each interior concrete joint type were established as follows:

Concrete Joint Type	Cut Line Proposed at Notification	Cut Line Established After Sample Collection[1]	No. Samples at Cut Line Interval
Windows/doors in an exterior wall (1,000 l.f.)	Remove concrete 3 inches from joint to 1 inch depth	**Type 1B**: 10" lateral **Type 2B**: N/A **Type 3B**: 1" lateral **Sill**: 3" lateral on 3rd floor, 6" lateral on 2nd floor, full 14" lateral on 1st floor	12
Interior partition windows/doors (508 l.f.)	Remove concrete 3 inches from joint to 1 inch depth	**Type 1B**: 14" lateral **Type 2B**: 1" above first corner in waffle **Type 3B**: 3" lateral **Vertical Joint**: 10" lateral (doors), 14" lateral (windows)	9
Interior masonry joints (wall to ceiling) (442 l.f.)	Remove concrete 3 inches from joint to 1 inch depth	**Type 1A**: 10" lateral **Type 2A**: 1" above first corner in waffle (1st/2nd floors), 7" above first corner in waffle (3rd floor) **Type 3A**: 3" lateral	9

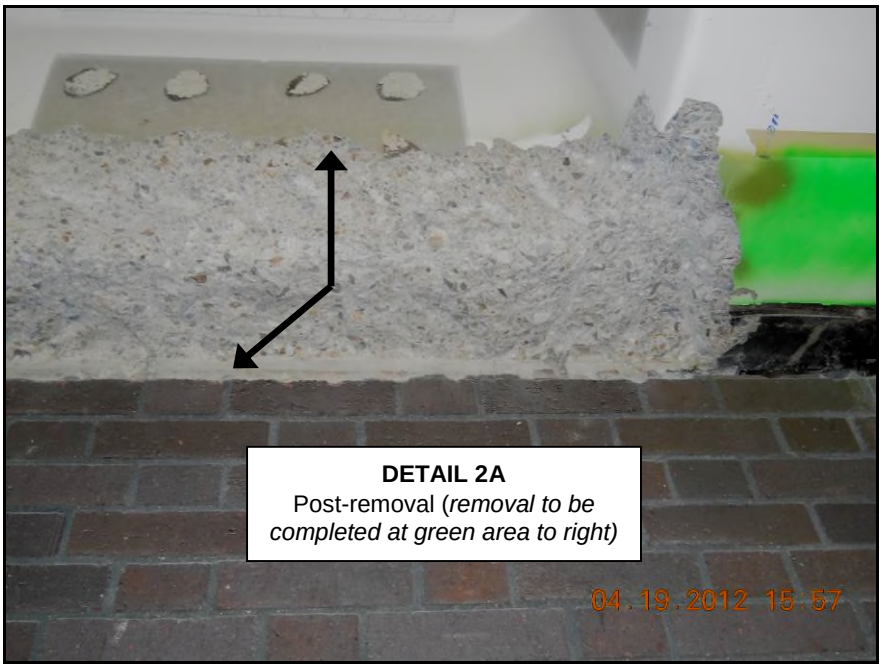
1. All concrete removals were extended to a depth of 1 inch below the surface of the concrete to the lateral extents indicated above. The adequacy of the depth of removal was confirmed by post-removal verification samples collected from the concrete remaining nearest to the former joint location.



After the cut lines had been established as described above, the lateral extent of concrete removal was marked out from each joint to the proposed cut line with green spray paint. This included markouts to the concrete in front of each joint (i.e., visible portions of the ceiling) as well as the "mirror image" of the concrete slab extending behind each joint after removing a brick veneer or door frame. A photo is provided at right.

Interior concrete within the established cut lines was removed by hand using a combination of chipping guns, chisels, and pry bars. Post-removal inspections were performed to confirm that concrete within the marked removal area had been removed in its entirety. In certain instances where the full 1 inch concrete removal depth was not achieved during the initial removal work, these locations were marked with additional green spray paint to indicate that additional concrete chipping was required, and that post-removal verification samples would not be collected until removals were complete as confirmed by visual inspection. After the removal extent was confirmed to be sufficient by visual inspection, post-removal verification samples were collected from the remaining concrete nearest to the former caulked joints at the specified frequency of 1 sample per 100 l.f. of joint. As shown on Table 2-

4, the data indicated that the remaining concrete met the 1 ppm cleanup level at all 14 interior locations sampled. The remaining concrete was marked in the field with pink spray paint to communicate to on-site personnel that the location had met visual inspection criteria and that verification data met the 1 ppm cleanup level. Photos depicting concrete removal at an interior partition window joint (Detail 1B) and an interior masonry joint (Detail 2A) are provided below.



Interior concrete headers and sills adjacent to exterior windows were chipped within the specified cut lines after window frames and panes were removed from window openings to allow for the continuous interior/exterior concrete removal to be performed together as described in Section 2.4.4 below.

PCB waste materials were loaded into polyethylene bags prior to removal from the work area, and the bags were transferred to lined roll-off containers staged in the courtyard adjacent to the work area. The caulking and adjacent masonry waste materials generated from within the established cut lines were managed for off-site disposal as PCB waste ≥ 50 ppm.

2.3.5 Pedestrian Ramp

A pedestrian ramp and covered concourse area was located on the first floor immediately exterior to the first floor vestibule and Room 108 (southeast corner of the Demolition Area; refer to Figure 2-3 and photo below). Although the pedestrian ramp was actually an outdoor area, it is presented in this Interior Remediation section because its masonry joint configuration was similar to interior masonry joint configurations. The quantity of caulking present at the brick to concrete joint located at the "ceiling" of this area was measured at 96 l.f. (this quantity is included as part of the "interior masonry joint" total quantity presented in previous sections of this Report).

The ceiling joint remediation work was performed in the same manner as the interior work. Pre-removal verification samples were collected from adjacent masonry at the specified frequencies to establish cut lines, and the lateral extent of masonry removal was marked out from the joint to the proposed cut line with green spray paint. The lateral extent of masonry removal included the first full row of bricks beneath the joint, and concrete removal in accordance with Detail 2A as described in Section 2.3.4 above. After gross caulking removal, the adjacent brick and concrete within the established cut lines were removed by hand using a combination of chisels, pry bars, and chipping guns. After removals had been completed to the specified intervals, inspections were performed to confirm that bricks within the marked removal area had been removed in their entirety, and to confirm that concrete within the marked removal area had been removed / chipped to a minimum depth of 1 inch below the surface of the concrete. Post-removal verification samples were collected from the remaining concrete at the specified frequencies, and the data presented on Table 2-4. As indicated on the table, the remaining concrete met the 1 ppm cleanup level and PCB waste removal was considered complete. The walls and ceilings were then marked in the field with pink spray paint to communicate to on-site personnel that the location had met visual inspection criteria and that verification data met the 1 ppm cleanup level.

PCB waste materials were loaded into polyethylene bags prior to removal from the work area, and the bags were transferred to lined roll-off containers staged in the courtyard adjacent to the work area. The caulking and adjacent masonry waste materials generated from within the established cut lines were managed for off-site disposal as PCB waste ≥ 50 ppm.

2.3.6 Slate Floor Tiles

The first floor vestibule and corridor contained a caulked joint between slate floor tiles and the adjacent window or interior brick wall at the locations depicted as "floor joint caulking" on Figure 2-3. An approximate quantity of 112 l.f. of caulking was observed at this joint type.

The remediation work at this joint type was performed according to a cut-line remediation approach. Pre-removal verification samples were collected from adjacent slate floor tiles at a frequency of 1 sample per 100 l.f. (2 samples) to establish cut lines as noted on Table 2-3, and the lateral extent of tile removal was marked out from the joint to the proposed cut line with green spray paint. The lateral extent of slate floor tile removal included tile within 6.5 inches of the caulked joint. After gross caulking removal, the floor tiles within the established cut lines were removed by hand using a combination of chisels, pry bars, and chipping guns. Window frames in contact with the caulking at the slate floor tile joint were removed as described in Section 2.4.2 of this Report, and the first row of brick in contact with the caulking at the slate floor tile joint was removed according to the model developed for the interior ceiling joints.

After removals had been completed to the specified intervals, inspections were performed to confirm that tiles and/or bricks within the marked removal areas had been removed in their entirety. No post-removal verification sampling was warranted because the affected materials had been removed in their entirety. The remaining underlying media was then marked in the field with pink spray paint to communicate to on-site personnel that the location had met visual inspection criteria and that no further PCB remediation work was warranted at this location.

PCB waste materials were loaded into polyethylene bags prior to removal from the work area, and the bags were transferred to lined roll-off containers staged in the courtyard adjacent to the work area. The caulking, frames, and adjacent concrete waste materials generated from within the established cut lines were managed for off-site disposal as PCB waste ≥ 50 ppm.

2.3.7 Excluded PCB Products

Interior window glazing sealants and other miscellaneous materials such as pipe penetration sealants and a door threshold caulking were characterized as PCBs < 50 ppm and were determined to meet the definition of Excluded PCB Products as presented in the Notification. These caulking materials were removed by the remediation subcontractor and were managed collectively with the PCB ≥ 50 ppm waste stream (despite their PCB <50 ppm classification) in order to consolidate the material with other PCB waste streams generated on-site.

2.4 EXTERIOR REMEDIATION

This section documents the removal and off-site disposal of PCB caulking and adjacent building materials in direct contact or coated with PCB caulking from exterior portions of the Demolition Area (*excluding the roof; refer to Section 2.5)*. As presented in the Notification, PCB source materials (i.e., caulking or glazing sealants) were located at exterior locations including window frames and panes, door frames, and masonry expansion joints. The estimated quantities of PCB caulking or adjacent media as presented in the Notification are updated in each section below.

The remedial approach included the collective removal of PCB source materials along with the coated window or door frames, followed by segregation of adjacent porous masonry materials by implementing a "cut line" remediation approach. Masonry on one side of the cut line (containing PCBs above the cleanup level) were managed for off-site disposal as ≥ 50 ppm PCB waste. Materials on the other side of the cut line (containing PCBs below the cleanup level) were considered unrestricted for disposal under 40 CFR 761 and were subsequently transported off-site as construction & demolition debris generated during the post-abatement structural demolition of the building.

Table 2-5 presents the pre-removal verification data at the established cut line for each exterior media subject to verification sampling, and Table 2-6 presents the post-removal verification data for each media subject to post-removal sampling. A drawing depicting the exterior façade remediation areas and sample locations is provided as Figure 2-6.

2.4.1 PCB ≥ 50 ppm Caulking

Exterior caulking identified with PCBs ≥ 50 ppm as described in the Notification was removed for off-site disposal as PCB waste ≥ 50 ppm. The quantity of PCB ≥ 50 ppm exterior caulking estimated in the Notification vs. the quantity measured in the field during implementation is summarized below:

Joint Type	Notification Estimate (l.f.)	Field Measurement (l.f.)
Windows/doors in an exterior wall	1,675	1,510
Exterior masonry joints (brick to concrete)	300	307
Total Quantity	1,975	1,817

Gross caulking removal was completed under proper site controls using hand tools (e.g., utility knives, hand scrapers/putty knives, and/or caulking removal guns) in accordance with the Notification and the Contractor Workplan prepared by Yankee Environmental Services, LLC. Ultimate removal of caulking remnants adhered to metal frames or adjacent masonry was achieved by complete removal of the coated building material in its entirety as described further below. Waste materials were bagged within each work area prior to being transported to the lined roll-off containers staged outside the building within the boundaries of the project site.

2.4.2 Exterior Windows and Doors

Exterior windows and door frames identified with PCB ≥ 50 ppm caulking as described in the Notification were removed in their entirety for off-site disposal as PCB waste ≥ 50 ppm. Waste materials were transported to a lined roll-off container staged outside the building within the boundaries of the project site. Because the window and door frame materials were removed in their entirety, no post-removal verification sampling was warranted for this waste stream. Adjacent brick or concrete masonry was removed and subject to verification sampling as described below.

As noted in Section 2.4.1, the quantity of PCB ≥ 50 ppm exterior caulking at the perimeter of exterior window and door frames was estimated at 1,675 l.f. in the Notification, and was measured at approximately 1,510 l.f. during remedy implementation.

2.4.3 Exterior Brick

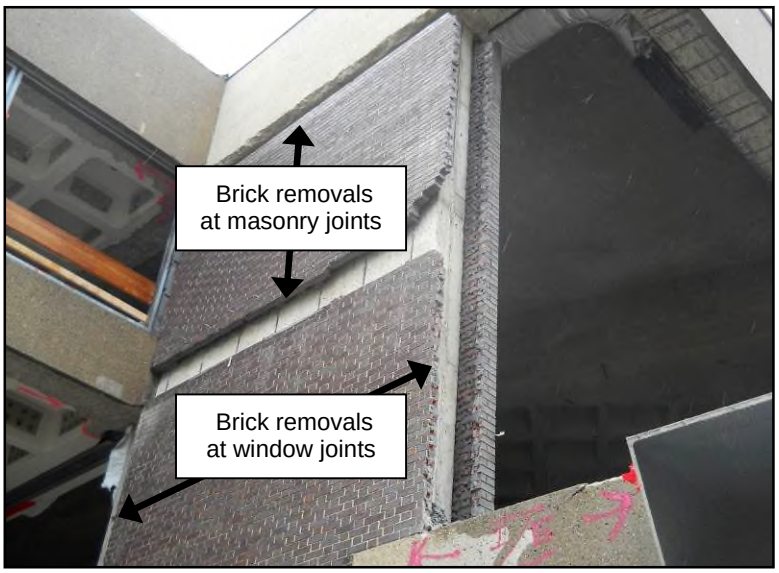
Exterior bricks adjacent to caulking identified with PCBs ≥ 50 ppm as described in the Notification were segregated by implementing a “cut line” remediation approach and were managed for off-site disposal as PCB waste ≥ 50 ppm. The quantity of bricks in direct contact with PCB ≥ 50 ppm exterior caulking estimated in the Notification vs. the quantity measured in the field during implementation is summarized below:

Brick Joint Type	Notification Estimate (l.f.)	Field Measurement (l.f.)
Windows/doors in an exterior wall (vertical joints)	575	510
Exterior masonry joints (brick to concrete; horizontal joints)	300	307
Total Quantity	875	817

Minimum cut lines for each of the joint types identified above were proposed in the Notification; however, additional pre-removal samples were required to meet the minimum sample frequency (1 sample per 100 l.f. at vertical window joints; 1 sample per 50 l.f. at horizontal masonry joints) and to confirm the proposed minimum cut lines prior to beginning the remediation work. Based on the sampling data presented in Table 2-5, the cut lines for each exterior brick joint type were ultimately established as follows:

Brick Joint Type	Cut Line Proposed at Notification	Cut Line Established After Sample Collection	No. Samples at Cut Line Interval
Windows/doors in an exterior wall (vertical joints) (510 l.f.)	Full-brick width from vertical joint (8")	Full-brick width from vertical joint (8")	5
Exterior masonry joints (brick to concrete; horizontal joints) (307 l.f.)	First four rows of bricks below horizontal joint (10")	**Elevations F, G, H, and Roof Line**: First 4 rows below horizontal joint (10"); **Elevation D**: First 5 rows below horiz. joint (12.5"); **Elevation E**: First 6 rows below horizontal joint (15")	8

After the cut lines had been established as described above, the lateral extent of brick removal was marked out from each joint to the proposed cut line with green spray paint. After gross caulking removal, bricks within the established cut lines were removed by hand using a combination of chipping guns, chisels, and pry bars. Post-removal inspections were performed to confirm that bricks within each marked removal area had been removed in their entirety. The remaining exterior bricks were then marked in the field with pink spray paint to communicate to on-site personnel that the location had met visual inspection criteria. No post-removal verification samples were collected from the exterior bricks, as the full depth of the bricks within the established cut lines were removed in their entirety.



PCB waste materials were loaded into polyethylene bags prior to removal from the work area, and the bags were transferred to a lined roll-off container staged in the courtyard adjacent to the work area. The caulking and adjacent masonry waste materials generated from within the established cut lines were managed for off-site disposal as PCB waste ≥ 50 ppm.

2.4.4 Exterior Concrete

Exterior concrete adjacent to caulking identified with PCBs ≥ 50 ppm as described in the Notification was segregated by implementing a "cut line" remediation approach and was managed for off-site disposal as PCB waste ≥ 50 ppm.

The quantity of concrete in direct contact with PCB ≥ 50 ppm exterior caulking estimated in the Notification vs. the quantity measured in the field during implementation is summarized below:

Concrete Joint Type	Notification Estimate (l.f.)	Field Measurement (l.f.)
Windows/doors in an exterior wall (horizontal joints)	1,100 (550 headers, 550 sills)	1,000 (500 headers, 500 sills)
Exterior masonry joints (brick to concrete; horizontal joints)	300	307
Total Quantity	1,400	1,307

Minimum cut lines for each of the joint types identified above were proposed in the Notification; however, additional pre-removal samples were required to meet the minimum sample frequency (1 sample per 100 l.f. at horizontal window joints; 1 sample per 50 l.f. at horizontal masonry joints) and to confirm the proposed minimum cut lines prior to beginning the remediation work. Based on the sampling data presented in Table 2-5, the cut lines for each exterior concrete joint type were ultimately established without any changes from the intervals proposed in the Notification:

Concrete Joint Type	Cut Line Proposed at Notification	Cut Line Established After Sample Collection	No. Samples at Cut Line Interval
Windows/doors in an exterior wall (horizontal joints) (1,000 l.f.)	Remove concrete 3 inches from joint to 1 inch depth (headers and sills)	Remove concrete 3 inches from joint to 1 inch depth (headers and sills)	11
Exterior masonry joints (brick to concrete; horizontal joints) (307 l.f.)	Remove concrete 1 inch above joint to 1 inch depth	Remove concrete 1 inch above joint to 1 inch depth	6

After the cut lines had been established as described above, the lateral extent of concrete removal was marked out from each joint to the proposed cut line with green spray paint. After gross caulking removal from masonry joints and after window removal from window openings, concrete within the established cut lines was removed by hand using a combination of chipping guns, chisels, and pry bars. Post-removal inspections were performed to confirm that concrete within the marked removal areas had been removed in its entirety. In certain instances where the full 1 inch concrete removal depth was not achieved during the initial removal work, these locations were marked with additional green spray paint to indicate that additional concrete chipping was required, and that post-removal verification samples would not be collected until removals were complete as confirmed by visual inspection.

After the removal extent was confirmed to be sufficient by visual inspection, post-removal verification samples were collected from the remaining concrete nearest to the former caulked joints at the specified frequency of 1 sample per 100 l.f. of window joint or 1 sample per 50 l.f. of masonry joint. As shown on Table 2-6, the data indicated that the remaining concrete met the 1 ppm cleanup level at all 16 locations sampled. The remaining concrete was then marked in the field with pink spray paint to communicate to on-site personnel that the location had met visual inspection criteria and that verification data met the cleanup level.

PCB waste materials were loaded into polyethylene bags prior to removal from the work area, and the bags were transferred to lined roll-off containers staged in the courtyard adjacent to the work area. The caulking and adjacent masonry waste materials generated from within the established cut lines were managed for off-site disposal as PCB waste ≥ 50 ppm.

2.4.5 Excluded PCB Products

Exterior window glazing sealants and other miscellaneous materials such expansion joint caulking at the pedestrian ramp were characterized as PCBs < 50 ppm and were determined to meet the definition of Excluded PCB Products as presented in the Notification. These caulking materials were removed by the remediation subcontractor and were

managed collectively with the PCB ≥ 50 ppm waste stream (despite their PCB <50 ppm classification) in order to consolidate the material with other PCB waste streams generated on-site.

2.5 ROOF REMEDIATION

This section documents the removal and off-site disposal of PCB caulking and adjacent building materials in direct contact or coated with PCB caulking from the roof of the Demolition Area. As presented in the Notification, PCB ≥ 50 ppm caulking was known to be located at certain metal to masonry joints (i.e., flashing at perimeter locations) and at certain masonry expansion joints.

The remedial approach included the collective removal of PCB source materials along with metal flashing or other coated materials, followed by segregation of adjacent brick or concrete masonry materials by implementing a "cut line" remediation approach. Masonry on one side of the cut line (containing PCBs above the unrestricted use cleanup level) were managed for off-site disposal as ≥ 50 ppm PCB waste. Materials on the other side of the cut line (containing PCBs below the cleanup level) were considered unrestricted for disposal under 40 CFR 761 and were subsequently transported off-site as construction & demolition debris generated during the post-abatement structural demolition of the building.

The quantity of PCB ≥ 50 ppm caulking estimated in the Notification vs. the quantity measured in the field during implementation is summarized below, by roof location:

Roof Joint Type / Location	Notification Estimate (l.f.)	Field Measurement (l.f.)
Roof 1 concrete suspended spandrel	65	44
Roof 1 perimeter concrete wall	0	90
Roof 3 concrete parapet	0	170
Roof 4 concrete spandrel above brick wall	85	52
Roof 4 lower wall	0	40
Roof 5 concrete parapet	75	68
Roof 5 perimeter concrete wall	0	115
Total Quantity	225	587

Materials listed as "0 l.f." in the Notification quantity estimate were previously unknown as they only became visible after removing outer layers of roof flashing and/or membranes. A more extensive roof exploration could not be performed prior to submitting the Notification due to the need to maintain the integrity of the roof until the demolition period began.

Table 2-7 presents the pre-removal verification data at the established cut line for each roof material subject to verification sampling, and Table 2-8 presents the post-removal verification data for each media subject to post-removal sampling. A drawing depicting the five distinct levels of the roof (identified as Roof 1 through Roof 5) as well as each sample location is provided as Figure 2-7.

2.5.1 PCB ≥ 50 ppm Caulking

Exterior caulking identified with PCBs ≥ 50 ppm as presented above was removed for off-site disposal as PCB waste ≥ 50 ppm. Gross caulking removal was completed under proper site controls using hand tools (e.g., utility knives, hand scrapers/putty knives, and/or caulking removal guns) in accordance with the Notification and the Contractor

Workplan prepared by Yankee Environmental Services, LLC. Ultimate removal of caulking remnants adhered to metal frames or adjacent masonry was achieved by complete removal of the coated building material in its entirety as described further below. Waste materials were bagged on the roof prior to being transported to a lined roll-off container staged in the courtyard adjacent to the work area.

Miscellaneous roof caulking or sealant materials identified with PCBs < 50 ppm were determined to meet the definition of Excluded PCB Products as presented in the Notification. These caulking materials were removed and managed collectively with the PCB ≥ 50 ppm waste stream (despite their PCB <50 ppm classification) in order to consolidate the material with other PCB waste streams generated on-site.

2.5.2 Adjacent Metal Components

Non-porous metal components in direct contact or coated with PCB ≥ 50 ppm caulking on the roof were removed in their entirety with the caulking for off-site disposal as PCB waste ≥ 50 ppm. This included the metal bracket beneath the Roof 1 suspended concrete spandrel, the metal door frame on the western wall of Roof 4, and metal flashing at the perimeter or parapet walls of Roof 1, Roof 3, Roof 4, and Roof 5. These metal waste materials were bagged on the roof prior to being transported to a lined roll-off container staged in the courtyard adjacent to the work area.

2.5.3 Adjacent Masonry Components

Exterior bricks and concrete adjacent to PCB ≥ 50 ppm roof caulking were segregated by implementing a "cut line" remediation approach and were managed for off-site disposal as PCB waste ≥ 50 ppm. Minimum cut lines for each of the joint types identified above were proposed in the Notification; however, additional pre-removal samples were required to meet minimum sample frequencies and to confirm the proposed minimum cut lines prior to beginning the remediation work. Based on the sampling data presented in Table 2-7, the cut lines for the adjacent masonry at each joint type were established as follows:

Location	Cut Line Proposed at Notification	Cut Line Established After Sample Collection[1]	Sample Frequency / No. Samples
Roof 1 concrete suspended spandrel (44 l.f.)	Remove caulking and metal bracket in entirety; remove concrete to 1" depth and laterally to 6 inches from joint; remove half-width of brick adjacent to spandrel vertical end, and concrete to 1" depth and 3" lateral beside brick	Remove caulking and metal bracket in entirety; remove concrete to 1" depth and laterally to 3 inches above corner; remove half-width of brick adjacent to spandrel vertical end, and concrete to 1" depth and 3" lateral beside brick	1 per 15 l.f. (3 concrete, 1 brick)
Roof 1 perimeter concrete wall (90 l.f.)	N/A	Remove caulking and adjacent metal flashing in entirety; remove 1" depth of concrete to height of 2" above & below joint	1 per 25 l.f. (3 concrete)
Roof 3 concrete parapet (170 l.f.)	N/A	Remove caulking and adjacent metal flashing in entirety; remove 1" depth of concrete to height of 2" above & below joint	1 per 25 l.f. (6 concrete)
Roof 4 concrete spandrel above brick wall (52 l.f.)	Remove caulking and mechanical room east wall metal door frame in entirety; remove one brick width adjacent to door frame and three rows of bricks below spandrel; remove 1" depth of concrete to a height of 2" above joint	Remove caulking and mechanical room east wall metal door frame in entirety; remove one brick width adjacent to door frame and three rows of bricks below spandrel; remove 1" depth of concrete to a height of 1" above joint	1 per 20 l.f. (3 concrete, 3 brick)

Location	Cut Line Proposed at Notification	Cut Line Established After Sample Collection[1]	Sample Frequency / No. Samples
Roof 4 lower wall (40 l.f.)	N/A	Remove caulking and adjacent metal flashing in entirety; remove 1" depth of concrete to height of 2" above & below joint	1 per 25 l.f. (1 concrete)
Roof 5 concrete parapet (68 l.f.)	Remove caulking and adjacent metal flashing in entirety; remove 1" depth of concrete to height of 2" above joint	Remove caulking and adjacent metal flashing in entirety; remove 1" depth of concrete to height of 1" above joint	1 per 25 l.f. (3 concrete)
Roof 5 perimeter concrete wall (115 l.f.)	N/A	Remove caulking, adjacent metal flashing, and wood framing in entirety; remove 1" depth of concrete to height of 2" above & below joint	1 per 25 l.f. (4 concrete)

1. Sample frequencies for materials adjacent to PCB ≥ 50 ppm caulking not included in the Notification were determined based on similar joint types on the roof. Because each additional material was located at a parapet or perimeter wall, a 1 sample per 25 l.f. sample frequency was selected to match the approved 1 sample per 25 l.f. frequency established for the Roof 5 concrete parapet wall.

After the cut lines had been established as described above, the lateral extent of brick and concrete removal was marked out from each joint to the proposed cut line with green spray paint. Materials within the established cut lines were removed by hand using a combination of chipping guns, chisels, and pry bars. Post-removal inspections were performed to confirm that bricks within each marked removal area had been removed in their entirety, and that concrete within each marked removal area had been removed to a sufficient lateral extent and depth. Post-removal verification samples were collected from the remaining concrete nearest to the former caulked joints at the frequencies specified above.

As shown on Table 2-8, the data indicated that the remaining concrete met the 1 ppm cleanup level at all 23 locations sampled. No post-removal verification samples were collected from the adjacent bricks, as the full depth of the bricks within the established cut lines were removed in their entirety. The remaining bricks and concrete were then marked in the field with pink spray paint to communicate to on-site personnel that the location had met visual inspection criteria.

PCB waste materials were loaded into polyethylene bags prior to removal from the roof, and the bags were transferred to a lined roll-off container staged in the courtyard for off-site disposal as PCB waste ≥ 50 ppm.

Southern edge of Roof 1 parapet wall after removal of caulking, flashing, and adjacent concrete

2.6 BASEMENT REMEDIATION

This section documents the removal and off-site disposal of PCB source materials and adjacent building materials in direct contact or coated with PCB source materials from the basement of the Demolition Area. As presented in the Notification, PCB source materials in the basement included caulking (located at door frame perimeters) as well as paint and other concrete sealers (located on surfaces throughout the basement, including concrete walls, concrete ceilings, piping, and ductwork). With the exception of limited portions of concrete perimeter walls and the concrete floors, all basement materials were scheduled for removal and off-site disposal as part of the structural demolition.

As shown on Figure 2-8, there were 21 basement door frames with PCB caulking that were scheduled to be removed for off-site disposal as PCB waste ≥ 50 ppm. In preparation for the removal process, concrete samples were collected at locations adjacent to the door joints to determine the extent of PCBs away from the caulked joint (similar to the cut-line segregation approach implemented on the upper floors). However, unlike the upper floors, the 1 ppm target cleanup level was not achieved at most sample locations, which led to the identification of paint and other concrete sealers as another PCB source material in the basement of the Demolition Area.

As presented in Table 2-9, five distinct characterization data sets were collected from the basement in support of the remediation and materials management plan. The data sets and implications of each are summarized below.

- Initial characterization of basement concrete (31 samples): initial delineation data adjacent to caulked door frames in support of the original cut-line segregation approach; 27 of 31 samples reported with PCBs > 1 ppm; all concrete represented by these samples was ultimately removed for off-site disposal. *This data*

indicated that a secondary PCB source material was present in the basement.

- Basement paint characterization (11 samples): paint characterization data collected from the surface of concrete masonry unit (CMU) walls, poured concrete walls, ceilings, and ductwork; 6 of 11 results reported with PCBs ≥ 50 ppm (range from 17 to 150 ppm); all painted media was ultimately removed as a PCB bulk product waste. *This data confirmed the presence of a secondary PCB source material in the basement.*
- Coating removal pilot test (5 samples): pilot tests were performed to remove paint and/or clean painted and unpainted surfaces by various methods including physical scraping, Peel-Away ST-1 paint stripper, and surficial cleaning with TSP. Concrete samples collected after cleaning / paint removal at these locations were reported with PCBs ranging from 0.41 to 5.1 ppm. *This data indicated that paint removal was not a feasible approach to achieve the 1 ppm unrestricted use cleanup level in concrete within the timeframe allowed by the project schedule.*
- Full depth concrete core waste characterization (5 samples): representative samples of the waste stream (full wall thickness cores) were collected at five locations for PCB analyses (3 poured concrete walls and 2 CMU walls, each representing a different wall and paint configuration). The three poured concrete wall samples (all paint configurations) and the CMU sample painted on one side were reported with PCBs < 2 ppm; the CMU wall sample painted on both sides of the wall was reported with PCBs > 2 ppm. *This data resulted in the development of the concrete materials management plan depicted on Figure 2-9.*
- Characterization of basement concrete to remain in place (12 samples): characterization samples were collected from concrete walls where a portion of the wall would be cut down and left in place for lateral earth support in accordance with the overall project plans. Two samples were collected from the northeast corner wall in the mechanical room / transformer room area, where no paint was present on the walls; ten samples were collected from the demo line and the southwest corner perimeter wall at Stair 4 after paint was removed from the walls using Peel-Away ST-1 paint stripper. *This data was collected in support of the deed notice that has been prepared to record the concentration of PCBs remaining in these concrete surfaces.*

Based on the data summarized above and presented in Table 2-9, PCB-containing basement materials scheduled for removal and off-site disposal were transported to one of three facilities: the EQ Wayne hazardous waste disposal facility in Belleville, Michigan; the Minerva Enterprises non-hazardous waste disposal facility in Waynesburg, Ohio; and the Turnkey Recycling and Environmental Enterprises (TREE) non-hazardous waste disposal facility in Rochester, New Hampshire. All other non-PCB impacted concrete was transported to the Della Land recycling facility in Eliot, Maine along with the remainder of the masonry removed during structural demolition. Additional details on each of the PCB-containing materials and disposal facilities are presented in the following sections.

2.6.1 EQ Wayne Disposal

Demolition Area basement materials scheduled for off-site disposal as ≥ 50 ppm PCB bulk product waste at the EQ Wayne hazardous waste disposal facility were removed prior to disturbing any other basement materials. These materials were removed by physical means and placed into labeled polyethylene bags prior to being transported to a lined roll-off container staged in the courtyard adjacent to the work area. The materials included the following:

- Door frames and ≥ 50 ppm PCB caulking associated with the 21 basement doors (depicted on Figure 2-8);
- CMU block walls containing ≥ 50 ppm PCB paint on each side of the wall (depicted on Figure 2-9);
- Painted sheetrock walls (portions of the former Health Services area west of the elevator and stairwell; removed and managed as such in support of the overall project schedule);

- Mechanical / electrical / plumbing components (primarily piping and ductwork) coated with ≥ 50 ppm PCB paint (throughout the basement Demolition Area).

The ≥ 50 ppm PCB bulk product waste was transported to the EQ Wayne hazardous waste disposal facility as described in Section 2.7 of this report.

2.6.2 Minerva Enterprises

Under 40 CFR 761, PCB bulk product waste such as concrete demolition debris coated with PCB containing paint may be disposed of at a facility permitted, licensed, or registered by a State as a municipal or non-municipal non-hazardous waste landfill. To determine whether this disposal option was allowable under State regulations, Harvard engaged in discussions with MassDEP to determine whether the painted concrete would be considered a State-listed hazardous waste (i.e., MA02 for PCB wastes ≥ 50 ppm). MassDEP indicated that if representative samples of the painted concrete waste stream (i.e., composite samples of the full depth of the painted concrete wall) did not detect PCBs > 2 ppm and the paint could not be readily removed, then the waste stream could be considered a non-hazardous waste with regard to PCBs ("non-MA02"). This approach was also proposed to EPA in the Notification. A copy of the correspondence between MassDEP and Harvard is included in Appendix D.

As presented in Table 2-9, full wall thickness cores were collected at five locations for PCB analyses (3 poured concrete walls and 2 CMU walls, each representing a different wall and paint configuration). The three poured concrete wall samples (all paint configurations) and the CMU sample painted on one side were reported with PCBs < 2 ppm; the CMU wall sample painted on both sides of the wall was reported with PCBs > 2 ppm. As a result, it was determined that all painted concrete media (with the exception of the CMU painted on both sides) would *not* be classified as an MA02 waste, and could be transported to a non-hazardous waste landfill permitted to accept PCB bulk product waste.

The materials transported to Minerva Enterprises for disposal as non-MA02 PCB bulk product waste are depicted on Figure 2-9 and are summarized below:

- Inner walls containing ≥ 50 ppm PCB paint (all poured concrete walls, and CMU block walls painted on no more than one side);
- Inner walls without visible paint but assumed to be coated or sealed with a PCB source material based on characterization data (i.e., transformer room and mechanical room inner walls);
- Perimeter walls containing ≥ 50 ppm PCB paint on the interior face, and asbestos-containing dampproofing on the exterior face;
- Concrete ceilings containing ≥ 50 ppm PCB paint;
- Portions of the concrete ceiling without a known PCB source, but managed collectively with the painted ceiling components due to the difficulty of segregating painted from unpainted ceilings using heavy machinery;

The PCB bulk product waste was transported to the Minerva Enterprises non-hazardous waste landfill as described in Section 2.7 of this report.

2.6.3 Turnkey Recycling and Environmental Enterprises

Similar to the Minerva Enterprises facility, the TREE facility is a non-hazardous waste landfill permitted to accept PCB waste from Massachusetts, provided that the waste does not have an MA02 classification. However, because

TREE would not accept concrete with any paint on it, only a limited volume of concrete waste material from the basement was transported for off-site disposal to TREE.

As depicted on Figure 2-9, portions of the north and northeast unpainted perimeter wall with asbestos-containing dampproofing on the exterior face were transported to TREE. The quantity of PCB bulk product waste transported to TREE is documented in Section 2.7 of this report.

2.6.4 Concrete Remaining On-Site

Portions of the Demolition Area basement foundation walls were cut down and left in place for lateral earth support in accordance with the overall project plans at the locations shown on Figure 2-9. If PCB paint was located on any of these wall segments, it was removed prior to building demolition using Peel-Away ST-1 paint stripper followed by verification testing. As depicted on Figure 2-8 and summarized on Table 2-9, the concrete remaining in place contains residual levels of PCBs at concentrations up to 5.5 ppm.

These former concrete foundation walls are fully subgrade and are covered by soils below restored ground surface coverings. The top of these former wall segments are approximately 4 feet below finished grade. A deed notice has been prepared to record the concentration of PCBs remaining in these concrete surfaces (i.e., the Affected Areas) and to document the restrictions that apply to the Affected Areas. A draft deed notice is provided as Appendix E.

2.7 WASTE STORAGE AND DISPOSAL

The following activities were completed with regards to the storage and disposal of PCB wastes:

- Secure, lined, and covered waste containers (20-yard roll-offs or equivalent) were staged for the collection of PCB wastes generated during the work activities in accordance with 40 CFR 761.65. PCB waste containers were labeled and marked in accordance with 40 CFR 761.40. The work site was enclosed by locked perimeter chain-link fencing during non-work hours.
- At the end of each work day, any PCB wastes within an active work area were either removed from the work area and placed into the appropriate waste containers, or were secured within the active work area (e.g., waste materials may have been wrapped in polyethylene sheeting and kept within an active work area until the removal activity was complete, and all removed media could be collectively transported to the roll-off container).
- Caulking containing PCBs ≥ 50 ppm, porous and non-porous building materials coated or in direct contact with this caulking, certain Excluded PCB Product waste materials, certain painted basement media, and any non-liquid wastes generated in association with the PCB remediation activities (e.g., disposable PPE, poly sheeting, etc.) were transported for off-site disposal to the EQ Wayne hazardous waste disposal facility in Belleville, Michigan. A total of 187 tons of waste was sent to EQ Wayne facility in 23 roll-off container shipments between March 21 and September 26, 2012.
- Basement concrete coated with ≥ 50 ppm PCB paint as well as certain other non-painted basement concrete waste materials were transported for off-site disposal to the Minerva Enterprises non-hazardous waste disposal facility in Waynesburg, Ohio. A total of 2,553 tons of waste was sent to Minerva in 63 containers between July 26 and August 30, 2012.
- Unpainted basement concrete perimeter walls impacted by PCBs at concentrations < 50 ppm were transported for off-site disposal to the TREE non-hazardous waste disposal facility in Rochester, NH. A total of 90.6 tons of waste was sent to TREE in 6 roll-off container shipments between August 14 and August 24, 2012.

- PCB remediation waste generated during soil and asphalt removal activities along with disposable PPE and other non-liquid decontamination wastes (no liquid PCB wastes were generated during the work) were transported for off-site disposal to the Chemical Waste Management Chemical Services hazardous waste landfill located in Model City, New York. Approximately 17.9 tons of soil was sent off-site in one roll-off container on March 9, 2012.

- Pursuant to Recordkeeping and Reporting Condition 20 of the Approval, copies of all waste shipment records including the uniform hazardous waste manifests and certificates of disposal are provided in Appendix F of this Report.

2.8 AIR MONITORING

Perimeter air monitoring for total particulate dust was conducted in accordance with the perimeter air monitoring plan included in Appendix E of the Notification. Monitoring was conducted at an approximate frequency of one reading per hour during potentially dust generating activities (e.g., building material or soil removal activities). At each reading, a background level was recorded, and one or more measurements were recorded from the work zone perimeter. The location of the work zone perimeter and dust reading stations changed throughout the day as the work progressed. Readings were collected over 30-second intervals at each location using a Thermo MIE Personal Data RAM Model PDR-1000 monitor. Dust levels and exposures to dust were minimized by implementing a combination of engineering controls (e.g., work zone containments) and personal protective equipment (e.g., respirators).

There were no instances of visible dust generation from the soil removal area during any on-site activities, as soils that appeared dry on the ground were misted with water prior to removal. There were no sustained exceedances of the total airborne particulate action limit (0.1 milligrams per cubic meter (mg/m^3) above background) during any soil removal activities. In general, the total airborne particulate levels measured at locations around the work area perimeter were typically at background levels, with some variation in readings slightly above and slightly below background levels.

During building material removal work, total particulate dust monitoring performed outside of the building resulted in limited exceedances of the total airborne particulate action limit (0.1 mg/m^3 above background). Any instances of the action limit exceedance or observations of visible dust being generated from the work area were reported to the construction manager, and the work was temporarily stopped until improved dust control measures could be implemented (e.g., increased wetting, vacuuming, or additional use of polyethylene sheeting barriers). In general, the total particulate dust levels measured at locations outside of the work perimeter during active building material removal were typically within 0.1 mg/m^3 of background levels.

2.9 DEMOLITION & SITE RESTORATION

After completing the PCB remediation activities and verifying that the cleanup levels had been met, building renovation and restoration activities continued according to the architect's plans for the overall site renovation project. The remaining portions of the structure within the Demolition Area were demolished from the top down after PCB remediation was complete at exterior and interior locations above the basement level. Demolition and materials management below ground level (i.e., the first floor slab and basement walls) occurred as described in Section 2.6. Once the materials scheduled for demolition had been removed, a new tunnel was constructed, utilities were installed, and the hole was backfilled and graded according to the site restoration plans. The final ground surface cover in the vicinity of the former Demolition Area consists primarily of a brick concourse with asphalt walkways and landscaped grass areas.

3. DATA QUALITY ASSESSMENT

This data quality and data usability assessment has been conducted to review the data collected in support of site characterization and verification activities since submittal of the Notification. This precision, accuracy, representativeness, completeness, comparability, and sensitivity (PARCCS) evaluation includes an assessment of those parameters as well as quality assurance (QA) / quality control (QC) samples as they affect the usability of sample results. These indicators have been examined in the context of the intended use of the data, and an overall assessment of site conditions.

A data quality assessment was conducted by a third-party validator, Data Check Inc. of New Durham, New Hampshire, to evaluate the usability of the site characterization and verification data. Results were validated by a review of sample custody, holding times, sample dilution, surrogates, method blanks, field blanks, matrix spike (MS) / matrix spike duplicates (MSD), laboratory control samples (LCS) / laboratory control sample duplicates (LCSD), field duplicates, and field equipment blanks. The assessment was performed in general conformance with USEPA Region I Guidelines and the Quality Control Guidelines. A copy of Data Check's data validation summaries are provided in Appendix G.

3.1 PRECISION

Field duplicate samples were collected at an approximate frequency of one duplicate sample per twenty primary samples during remediation activities. A total of 16 duplicate samples were collected to analyze the precision of the primary sample results. Relative percent differences (RPDs) between the primary and associated duplicate samples were within acceptance criteria with two exceptions as noted in the data validation summaries, and the associated data was qualified as estimated (J).

Data was qualified as estimated (J) if the RPD between the column results was outside of the acceptance criteria (≤25% for solid matrices). Column results typically differ in solid matrices due to heterogeneities inherent to the sample matrix. Whether or not the RPD meets acceptance criteria, the laboratory reports the higher of the two column results. Fourteen sample results were qualified as estimated for column results outside of acceptance criteria as noted in the data validation summaries, and the qualifiers applied to the data (J) are included in the summary tables provided with this report.

3.2 ACCURACY

Accuracy of the analytical data was assessed by reviewing recoveries for MS / MSD, LCS / LCSD, and surrogates. After review of this information, no data was qualified as estimated as a result of MS/MSD recoveries outside of acceptance criteria. No qualifications were applied to the data as a result of LCS/LCSD percent recoveries with the exception of data packages 12D0496 and 12E0712 as noted in the validation summaries. PCB surrogate recoveries met acceptance criteria or were diluted out for all samples with the exception of one aqueous field blank sample with recovery below acceptance criteria, and the result was qualified as estimated (UJ).

3.3 REPRESENTATIVENESS

Representativeness of the data was evaluated utilizing site use information and sampling data. Samples were collected with hand tools using consistent methods, and sampling tools were decontaminated between sample locations (each sample was collected from a discrete location). Sample containers were accompanied by complete chain of custody forms from the time of sample collection until laboratory delivery. All samples were extracted and analyzed within allowable holding times. Consistent procedures and laboratory analysis of the data were achieved.

PCBs were not detected in the laboratory method blank analyses, indicating that there were no interferences introduced at the laboratory during sample analysis. Aqueous field equipment blanks were collected at an approximate frequency of one sample per twenty primary samples to provide an indicator of field accuracy and sensitivity; PCBs were not detected in any of the 14 aqueous field equipment blank samples collected during sampling events, indicating that there were no interferences introduced in the field due to the sampling methods.

The distribution of sample locations and distance of samples from source materials was chosen based on the known release mechanism of PCBs, where concentrations generally decreased with increasing depth and distance from the former source material. Samples were collected at the frequencies specified in the Notification and approved by EPA.

3.4 COMPLETENESS

The data packages were reviewed to ensure that all sample and associated quality assurance results were available. The completeness review indicated that all samples were analyzed and all quality control results were available to complete the data validation process. All data obtained during this investigation were determined to be usable, and no data gaps were identified.

3.5 COMPARABILITY

Comparability measures the degree of confidence with which one data set can be compared to a related set of data. Based on a review of established standard methods and procedures for collection, analysis, and reporting of data, the data collected are considered to have met the requirements for comparability.

3.6 SENSITIVITY

Data sensitivity was evaluated by a review of each sample's reporting limit (RL). Some samples were analyzed at dilutions due to the high concentration of PCBs present in the samples and/or due to the sample matrix. Elevated quantitation limits are reported in these samples as a result of the dilutions performed. For any media where an interim sample result was reported with laboratory quantitation limits exceeding data quality objectives (i.e., the unrestricted use cleanup level), additional removal was performed to remove the media represented by the sample reported with PCBs above the unrestricted use cleanup level. Subsequent verification samples met data quality objectives with sufficient sensitivity to demonstrate that the unrestricted use cleanup levels had been met.

Based on a review of the existing site data, the data adequately represents the materials tested, and the samples collected are considered usable for the purposes of characterizing PCB-affected media and verifying remediation efforts in accordance with 40 CFR Part 761.

4. SUMMARY AND CONCLUSIONS

The PCB remediation activities described in this Report have been performed in accordance with the Notification and the conditions of EPA's January 26, 2012 Approval, as modified by subsequent submittals as summarized in Section 1.3 of this Report. The remedial approach consisted of the removal of PCB-containing materials for off-site disposal, including certain interior and exterior caulking, adjacent metal window and door frame components, adjacent concrete and brick masonry, adjacent ground surface media including asphalt and soil, painted or coated concrete walls and ceilings from the basement, and other miscellaneous features as described herein. In summary:

- Interior and exterior PCB ≥ 50 ppm caulking, coated metal window and door frames, coated roof flashing materials, and miscellaneous basement fixtures were removed in their entirety as ≥ 50 ppm PCB waste;

- Interior and exterior concrete and brick masonry were subject to pre-removal verification sampling at the approved frequencies in order to delineate the extent of PCBs above the 1 ppm cleanup level. A "cut line" segregation approach was implemented to segregate masonry on one side of the cut line (containing PCBs above the cleanup level) for off-site disposal as ≥ 50 ppm PCB waste, and to segregate materials on the other side of the cut line (containing PCBs below the cleanup level) as general demolition debris. Removals were confirmed by visual inspection and/or post-removal verification sampling at the approved frequencies, as required;

- Painted or coated concrete walls and ceilings from the basement were managed for off-site disposal in their entirety as PCB bulk product waste;

- The total volume of PCB waste removed from the Site included:

    - Caulking containing PCBs ≥ 50 ppm, porous and non-porous building materials coated or in direct contact with this caulking, certain Excluded PCB Product waste materials, certain painted basement media, and any non-liquid wastes generated in association with the PCB remediation activities (e.g., disposable PPE, poly sheeting, etc.) were transported for off-site disposal to the EQ Wayne hazardous waste disposal facility in Belleville, Michigan. A total of 187 tons of waste was sent to EQ Wayne facility in 23 roll-off container shipments.

    - Basement concrete coated with ≥ 50 ppm PCB paint as well as certain coated basement concrete waste materials were managed as PCB bulk product waste and disposed at the Minerva Enterprises non-hazardous waste disposal facility in Waynesburg, Ohio. A total of 2,553 tons of waste was sent to Minerva in 63 containers.

    - Unpainted basement concrete perimeter walls impacted by PCBs at concentrations < 50 ppm were managed as PCB bulk product waste and disposed at the TREE non-hazardous waste disposal facility in Rochester, NH. A total of 90.6 tons of waste was sent to TREE in 6 roll-off container shipments.

    - PCB remediation waste generated during soil and asphalt removal activities along with disposable PPE and other non-liquid decontamination wastes were transported for off-site disposal to the Chemical Waste Management Chemical Services hazardous waste landfill located in Model City, New York. Approximately 17.9 tons of soil was sent off-site in one roll-off container on March 9, 2012.

The PCB remediation activities authorized under the Approval are considered to be complete as summarized in this report. No further work is warranted to meet the conditions of the Approval, with the exception of recording the deed notice. A copy of the recorded deed notice will be provided to EPA upon completion.

Table 2-1
Ground Surface Characterization Data
Pound Hall Partial Demolition - Harvard Law School

Media	Sample Interval	Sample Description	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Aroclor 1268	Total PCBs	Qualifier
Asphalt	0 - 0.5	South Façade	06/06/11	PH-CBA-043	0.23	0.134	1.32	ND	**1.45**	J
Asphalt	0 - 0.5	South Façade	06/06/11	PH-CBA-044	0.26	ND	0.413	ND	0.413	
Asphalt	0 - 0.5	South Façade	08/18/11	PH-CBA-063	0.10	0.14	1.1	ND	**1.24**	J
Asphalt	0 - 0.5	South Façade	08/18/11	PH-CBA-064	0.50	ND	3.5	ND	**3.5**	J
Asphalt	0 - 0.5	South Façade	08/18/11	PH-CBA-065	0.10	ND	0.25	ND	0.25	J
Asphalt	0 - 0.5	North Façade	12/13/11	PH-CBA-139	0.50	ND	ND	ND	ND	
Asphalt	0 - 0.5	North Façade	12/13/11	PH-CBA-140	0.48	ND	ND	ND	ND	
Asphalt	0 - 0.5	North Façade	12/13/11	PH-CBA-141	0.48	ND	ND	ND	ND	
Asphalt	0 - 0.5	North Façade	12/13/11	PH-CBA-142	0.48	ND	ND	ND	ND	
Asphalt	0 - 0.5	North Façade	12/13/11	PH-CBA-143	0.50	ND	ND	ND	ND	
Asphalt	0 - 0.5	East Façade	12/13/11	PH-CBA-144	0.48	ND	ND	ND	ND	
Asphalt	0 - 0.5	East Façade	12/13/11	PH-CBA-145	0.48	ND	ND	ND	ND	
Asphalt	0 - 0.5	East Façade	12/13/11	PH-CBA-146	0.48	ND	ND	ND	ND	
Asphalt	0 - 0.5	East Façade	12/13/11	PH-CBA-147	0.48	ND	ND	ND	ND	
Asphalt	0 - 0.5	South Façade	12/13/11	PH-CBA-153	0.50	ND	ND	0.73	0.73	
Asphalt	0 - 0.5	South Façade	12/13/11	PH-CBA-169	0.48	ND	ND	ND	ND	
Stone	0 - 0.5	South Façade	12/13/11	PH-CBP-179	0.10	ND	ND	ND	ND	
Stone	0 - 0.5	South Façade	12/13/11	PH-CBA-180	0.10	ND	ND	ND	ND	
Soil	0-3	South Façade	12/13/11	PH-CBS-150	0.12	ND	ND	0.15	0.15	J
Soil	12-15	South Façade	12/13/11	PH-CBS-151	0.11	ND	ND	0.17	0.17	
Soil	0-3	South Façade	12/13/11	PH-CBS-156	0.13	ND	ND	0.29	0.29	J
Soil	12-15	South Façade	12/13/11	PH-CBS-157	0.11	0.28	ND	0.37	0.65	
Soil	0-3	South Façade	12/13/11	PH-CBS-160	0.13	ND	ND	0.22	0.22	J
Soil	12-15	South Façade	12/13/11	PH-CBS-161	0.11	0.31	ND	0.16	0.47	
Soil	0-3	South Façade	12/13/11	PH-CBS-165	0.12	0.33	ND	0.21	0.54	J
Soil	12-15	South Façade	12/13/11	PH-CBS-167	0.45	5.5	ND	ND	**5.50**	
Soil	0-3	Courtyard	12/13/11	PH-CBS-173	0.11	ND	ND	0.22	0.22	
Soil	12-15	Courtyard	12/13/11	PH-CBS-174	0.11	ND	ND	0.12	0.12	
Soil	0-3	Courtyard	12/13/11	PH-CBS-175	0.11	ND	ND	0.35	0.35	
Soil	12-15	Courtyard	12/13/11	PH-CBS-176	0.11	0.2	ND	0.14	0.34	
Soil	0-3	Courtyard	12/13/11	PH-CBS-177	0.44	0.53	ND	2.6	**3.13**	
Soil	12-15	Courtyard	12/13/11	PH-CBS-178	0.097	ND	ND	0.39	0.39	
Soil	5-8	South Façade	12/16/11	PH-CBS-183	0.10	ND	ND	ND	ND	
Soil	6-9	South Façade	12/16/11	PH-CBS-184	0.10	ND	ND	ND	ND	
Soil	12-15	South Façade	01/16/12	PH-CBS-224	0.11	0.25	ND	ND	0.25	
Soil	12-15	South Façade	01/16/12	PH-CBS-225	0.12	ND	ND	ND	ND	

Notes:

1. Samples were extracted by Soxhlet (3540C) and analyzed by EPA Method 8082 for PCBs.
2. Samples were extracted and analyzed by Contest Analytical Laboratory of East Longmeadow, MA
3. Bulk sample results are reported in units of milligrams per kilogram (mg/kg).
4. ND = Non-detect; result not detected above laboratory's minimum reporting limits as indicated.
5. J = Value is qualified as estimated based on data validation.
6. Sample interval is presented in inches below ground surface as measured from the original (non-excavated) ground surface.
7. Bold text indicates an exceedance of the 1 ppm target cleanup level.
8. Samples highlighted in gray-shaded cells were removed during excavation work.

Table 2-2
Post Excavation Soil Verification Data
Pound Hall Partial Demolition - Harvard Law School

Media	Sample Interval	Sample Description	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Aroclor 1268	Total PCBs	Qualifier
Soil	12-15	Area S-1	02/24/12	PH-VBS-268	0.10	ND	ND	ND	ND	
Soil	12-15	Area S-1	02/24/12	PH-VBS-269	0.11	ND	ND	ND	ND	
Soil	12-15	Area S-1	02/24/12	PH-VBS-270	0.12	ND	ND	ND	**1.1**	
Soil	18-21	Area S-1	03/05/12	PH-VBS-289	0.10	ND	ND	ND	0.11	
Soil	12-15	Area S-1	02/23/12	PH-VBS-271	0.11	ND	ND	ND	0.66	J
Soil	12-15	Area S-1	02/23/12	PH-VBS-272	0.11	ND	ND	ND	0.12	J
Soil	24-27	Area S-2	02/24/12	PH-VBS-278	0.11	ND	ND	ND	0.25	
Soil	24-27	Area S-2	02/24/12	PH-VBS-279	0.10	ND	ND	ND	ND	
Soil	4-7	Area A-1	02/24/12	PH-VBS-282	0.11	ND	ND	ND	0.14	J
Soil	4-7	Area A-1	02/24/12	PH-VBS-283	0.11	ND	ND	ND	ND	
Soil	4-7	Area A-1	02/24/12	PH-VBS-284	0.10	ND	ND	ND	ND	
Soil	4-7	Area A-1	02/24/12	PH-VBS-285	0.11	ND	ND	ND	ND	
Soil	4-7	Area A-1	02/24/12	PH-VBS-286	0.10	ND	ND	ND	ND	
Soil	4-7	Area A-1	02/24/12	PH-VBS-287	0.10	ND	ND	ND	ND	
Soil	4-7	Area A-1	02/24/12	PH-VBS-288	0.10	ND	ND	ND	ND	

Notes:

1. Samples were extracted by Soxhlet (3540C) and analyzed by EPA Method 8082 for PCBs.
2. Samples were extracted and analyzed by Contest Analytical Laboratory of East Longmeadow, MA
3. Bulk sample results are reported in units of milligrams per kilogram (mg/kg).
4. ND = Non-detect; result not detected above laboratory's minimum reporting limits as indicated.
5. J = Value is qualified as estimated based on data validation.
6. Sample interval is presented in inches below ground surface as measured from the original (non-excavated) ground surface.
7. Bold text indicates an exceedance of the 1 ppm target cleanup level.
8. Soils represented by samples shown in gray-shaded cells were removed during excavation work.

Table 2-3
Interior Pre-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Media	Joint Type and Quantity	Detail Type[1]	Minimum Number Samples[2]	Proposed Cut Line	Sample Distance from Joint[3]	Room Number[4]	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Aroclor 1268	Total PCBs	Qualifier	Action
Brick	Vertical Joint At Exterior Windows / Doors (510 l.f.)	N/A	5	Remove first full row of bricks (min. 8-inch width) beside vertical joints	8-9 inches (after first full brick width)	1st Fl Hall	02/02/12	PH-VBB-225	0.10	ND	0.20	ND	0.20		Cut line established after first full brick width (8")
						212	02/02/12	PH-VBB-229	0.091	0.13	0.18	ND	0.31		
						1st Fl Hall	02/07/12	PH-VBB-235	0.10	ND	ND	ND	ND		
						212	02/22/12	PH-VBB-273	0.10	ND	ND	ND	ND		
						335	02/22/12	PH-VBB-275	0.10	ND	ND	ND	ND		
						213	02/22/12	PH-VBB-276	0.10	ND	ND	ND	ND		
	Vertical Joint At Interior Partition Windows / Doors (477 l.f.)	N/A	5	Remove first half row of bricks (min. 4.5-inch width) beside vertical joints	4.5-5.5 inches (after first 1/2 brick width)	212	02/02/12	PH-VBB-226	0.10	ND	ND	ND	ND		Cut line established after first half brick width (4.5")
						334	02/02/12	PH-VBB-232	0.10	ND	ND	ND	ND		
						332	02/22/12	PH-VBB-274	0.10	ND	ND	ND	ND		
						108	09/02/11	PH-CBB-125	0.091	ND	ND	ND	ND		
						Vestibule	03/14/12	PH-VBB-311	0.10	ND	ND	ND	ND		
	Horizontal Joint Below Concrete Ceilings (442 l.f.)	N/A	4	Remove min. first full row of bricks below horizontal joints	2.5-3.5 inches (top of 2nd brick row under joint)	2nd Fl Disc. Rm	02/02/12	PH-VBB-227	0.095	ND	ND	ND	ND		Cut line established below first full row of bricks (2.5")
						332	02/03/12	PH-VBB-222	0.10	ND	ND	ND	ND		
						1st Fl Hall	02/07/12	PH-VBB-237	0.10	ND	ND	ND	ND		
						108	09/02/11	PH-CBB-122	0.100	ND	ND	ND	ND		
						213	09/02/11	PH-CBB-127	0.087	ND	ND	ND	ND		
						332	09/02/11	PH-CBB-132	0.09	ND	ND	ND	ND		

Table 2-3
Interior Pre-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Media	Joint Type and Quantity	Detail Type[1]	Minimum Number Samples[2]	Proposed Cut Line	Sample Distance from Joint[3]	Room Number[4]	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Aroclor 1268	Total PCBs	Qualifier	Action
Concrete	Horizontal Joint At Exterior Windows / Doors (1,000 l.f.)	Type 1B (494 l.f.)	5	Remove min. 3 inches of concrete above joint to min. depth of 1 inch	3-4 inches	103	02/03/12	PH-VBC-224	0.10	0.14	0.18	ND	0.32		Chose more distant interval
						213	02/03/12	PH-VBC-230	0.10	0.87	0.77	ND	**1.64**		
						332	02/03/12	PH-VBC-231	0.10	0.53	0.30	ND	0.83		
						108	02/07/12	PH-VBC-236	0.20	ND	1.7	ND	**1.7**		
				Remove min. 6 inches of concrete above joint to min. depth of 1 inch	6-7 inches	103	03/08/12	PH-VBC-290	0.10	0.13	0.3	ND	0.39		Chose more distant interval
						213	03/09/12	PH-VBC-291	0.10	1.2	1.1	ND	**2.3**		
						332	03/08/12	PH-VBC-292	0.10	1.0	ND	ND	1.0		
						108	03/08/12	PH-VBC-293	0.50	0.99	3.0	ND	**4.0**		
						2nd Fl	03/13/12	PH-VBC-306	0.091	0.80	0.85	ND	**1.65**	J	
				Remove min. 10 inches of concrete above joint to min. depth of 1 inch	10-11 inches	108	03/15/12	PH-VBC-314	0.095	ND	0.92	ND	0.92		Cut line established at 10" from joint
						103	03/15/12	PH-VBC-316	0.091	ND	0.13	ND	0.13		
						2nd Fl	03/15/12	PH-VBC-319	0.100	0.27	0.47	ND	0.74		
						213	03/15/12	PH-VBC-321	0.095	0.46	0.54	ND	1.0		
						332	03/15/12	PH-VBC-324	0.100	0.55	0.30	ND	0.85		
		Type 3B (6 l.f.)	1	Remove min. 1 inch concrete above joint to min. 1 inch depth	1-2 inches	1st Fl Hall	03/14/12	PH-VBC-312a	0.10	0.18	0.11	ND	0.29		Cut line established at 1" above joint
		Sill (500 l.f.)	5	Remove min. 3 inches of concrete below joint to min. depth of 1 inch	3-4 inches	332	03/15/12	PH-VBC-327	0.10	0.44	0.22	ND	0.66		Cut line est. at 3" below joint 3rd Fl
						335	03/16/12	PH-VBC-335	0.091	0.56	ND	ND	0.56		
						2nd Fl Hall	03/15/12	PH-VBC-328	0.095	0.40	0.52	ND	0.92		Chose more distant interval
						212	03/15/12	PH-VBC-329	0.091	0.22	0.33	0.79	**1.34**		
						108	03/22/12	PH-VBC-368	0.50	ND	2.5	ND	**2.5**		
						Room 334	03/20/12	PH-VBC-355	0.910	4.2	1.4	ND	**5.6**		
				Remove min. 6" of concrete below joint to min. depth of 1"	3-4 inches	2nd Fl Hall	03/15/12	PH-VBC-328	0.095	0.40	0.52	ND	0.92		Cut line est. at 6" below joint 2nd Fl
					6-7 inches	212	03/26/12	PH-VBC-380	0.10	ND	0.10	0.13	0.23		
				First floor locations with no raised sill; lower joint is flush to floor slab	6-7 inches	1st Fl Hall	04/18/12	PH-VBC-418	0.09	0.26	0.51	ND	0.77	J	Cut line at 6" beyond joint at locations flush to floor slab
				Remove min. 6" of concrete below joint to min. depth of 1"	6-7 inches	108	03/26/12	PH-VBC-381	0.50	ND	2.4	ND	**2.4**		Chose more distant interval
				Remove min. 10" of concrete below joint to min. depth of 1"	10-11 inches	108	04/09/12	PH-VBC-397	0.910	ND	3.9	ND	**3.9**		Chose more distant interval
				Remove concrete from entire 14" sill height to a min. depth of 1" (1st Fl)	Former direct contact	106	06/06/12	PH-VBC-569	0.091	ND	ND	ND	ND		1st floor cut line established at complete removal

Table 2-3
Interior Pre-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Media	Joint Type and Quantity	Detail Type[1]	Minimum Number Samples[2]	Proposed Cut Line	Sample Distance from Joint[3]	Room Number[4]	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Aroclor 1268	Total PCBs	Qualifier	Action
Concrete	Horizontal Joint At Interior Partition Windows & Doors and Vertical Joints at Stairwell & Penthouse Windows & Doors (508 l.f.)	Type 1B (185 l.f.)	2	Remove min. 6" of concrete above joint to min. depth of 1"	6-7 inches	335	03/08/12	PH-VBC-294	0.20	1.5	0.81	ND	**2.31**		Chose more distant interval
						Stair 3	03/08/12	PH-VBC-295	0.10	1.0	0.97	ND	**1.97**		
						2nd Fl Disc. Rm	03/09/12	PH-VBC-301	0.10	0.34	0.32	ND	0.66		
				Remove min. 14" of concrete beside joint to min. depth of 1"	10-11 inches	335	03/16/12	PH-VBC-333	0.10	1.1	ND	ND	**1.1**		
					14-15 inches	335	03/21/12	PH-VBC-359	0.094	0.60	0.27	ND	0.87		Cut line established at 14" from joint
					10-11 inches	332	03/19/12	PH-VBC-345	0.095	0.55	ND	ND	0.55		
					10-11 inches	2nd fl stair	03/20/12	PH-VBC-357	0.09	0.53	0.52	ND	1.05	J	
		Type 2B (66 l.f.)	1	Remove min. 3" of concrete above joint to min. depth of 1"	3-4 inches (before corner at 4")	108	03/09/12	PH-VBC-296	0.10	0.42	1.2	ND	**1.62**		Chose more distant interval
				Remove min. 1" of concrete above corner (4" past joint) to min. depth of 1"	1-2 inches above corner	108	03/16/12	PH-VBC-343	0.10	ND	1.0	ND	1.0		Cut line established at 1" above corner
		Type 3B (83 l.f.)	1	Remove min. 1 inch of concrete above joint to min. depth of 1 inch	1-2 inches	212	03/14/12	PH-VBC-308	0.10	0.35	0.80	ND	**1.15**		Chose more distant interval
						212	03/15/12	PH-VBC-313	0.20	0.47	1.4	ND	**1.87**		
				Remove min. 3 inches of concrete above joint to min. depth of 1 inch	3-4 inches	212	03/16/12	PH-VBC-337	0.087	0.16	ND	ND	0.16		Cut line established at 3" above joint
						3rd fl balcony	03/15/12	PH-VBC-332	0.095	ND	0.65	ND	0.65		
		Stairwell & Penthouse Window & Doors (174 l.f.)	2	Remove min. 3" of concrete beside joint to min. depth of 1"	3-4 inches	Stair Door	03/08/12	PH-VBC-297	0.10	1.1	1.1	ND	**2.2**	J	Chose more distant interval
						Stair Window	03/09/12	PH-VBC-298	0.50	3.5	0.98	ND	**4.5**		
				Remove min. 10" of concrete beside joint to min. depth of 1"	10-11 inches	Stair Door	03/15/12	PH-VBC-330	0.10	0.34	0.64	ND	0.98		Cut line est. at 10" beyond Stair Door joints
						Mech. Room Door	05/10/12	PH-VBC-470	0.095	ND	ND	ND	ND		
						Stair Window	03/15/12	PH-VBC-317	0.10	0.85	0.25	ND	**1.10**		Chose more distant interval
				Remove min. 14" of concrete beside joint to min. depth of 1"	14-15 inches	Stair Window	03/15/12	PH-VBC-318	0.095	0.83	ND	ND	0.83		Cut line est. at 14" beyond Stair Window joints

Table 2-3
Interior Pre-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Media	Joint Type and Quantity	Detail Type[1]	Minimum Number Samples[2]	Proposed Cut Line	Sample Distance from Joint[3]	Room Number[4]	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Aroclor 1268	Total PCBs	Qualifier	Action
Concrete	Horizontal Interior Masonry Joint (Wall to Ceiling) (442 l.f.)	Type 1A (68 l.f.)	1	Remove min. 6 inches of concrete above joint to min. depth of 1 inch	6-7 inches	212	03/12/12	PH-VBC-302	0.087	0.50	1.00	ND	**1.50**	J	Chose more distant interval
						3rd Fl Hall	03/12/12	PH-VBC-303	0.100	0.87	0.77	ND	**1.64**	J	
				Remove min. 10 inches of concrete above joint to min. depth of 1 inch	10-11 inches	212	03/16/12	PH-VBC-336	0.10	0.53	ND	ND	0.53		Cut line established at 10" from joint
						3rd Fl Hall	03/16/12	PH-VBC-334	0.095	0.82	ND	ND	0.82		
		Type 2A (251 l.f.)	3	Remove min. 3" of concrete above joint to min. depth of 1"	3-4 inches (before corner at 4")	2nd Fl Disc. Rm	02/03/12	PH-VBC-228	0.091	0.64	0.54	ND	**1.18**		Chose more distant interval
						332	02/03/12	PH-VBC-223	0.100	0.72	ND	ND	0.72		
				Remove min. 1" of concrete above corner (4" past joint) to min. depth of 1"	1-2 inches above corner	2nd Fl Disc. Rm	03/13/12	PH-VBC-309	0.095	0.60	0.48	ND	1.08		Cut line est. at 1" above corner on 1st and 2nd Floor
						Pedestrian Underpass	05/31/12	PH-VBC-517	0.087	ND	ND	ND	ND		
						334	03/13/12	PH-VBC-310	0.100	1.1	0.40	ND	**1.50**		Chose more distant interval
				Remove min. 4" of concrete above corner (4" past joint) to min. depth of 1"	4-5 inches above corner	334	03/21/12	PH-VBC-360	0.093	0.94	0.31	ND	**1.25**	J	Chose more distant interval
				Remove min. 7" of concrete above corner (4" past joint) to min. depth of 1"	7-8 inches above corner	334	03/26/12	PH-VBC-384	0.091	0.44	0.23	ND	0.67		Cut line est. at 7" above corner on 3rd Floor
		Type 3A (123 l.f.)	2	Remove min. 1 inch of concrete above joint to min. depth of 1 inch	1-2 inches	212	03/16/12	PH-VBC-307	0.10	0.43	ND	ND	0.43		Chose more distant interval
						212	03/15/12	PH-VBC-312b	0.10	0.67	0.93	ND	**1.60**	J	
				Remove min. 3 inches of concrete above joint to min. depth of 1 inch	3-4 inches	212	03/16/12	PH-VBC-341	0.10	0.16	ND	ND	0.16		Cut line established at 3" above joint
						3rd fl balcony	03/15/12	PH-VBC-331	0.095	0.79	ND	ND	0.79		
Slate Tile	Horizontal Floor Joint (112 l.f.)	N/A	2	Remove first row of slate tiles in direct contact with caulked floor joint	5.25-6.25 inches	1st Fl Hall	03/22/12	PH-VBP-366	0.095	ND	0.29	ND	0.29		Cut line est. at 6.5 inches from joint
					6.5-7.5 inches	1st Fl Hall	03/22/12	PH-VBP-367	0.095	ND	ND	ND	ND		

Notes:
1. Concrete ceilings have been categorized into six types: 1A (flat slab at 90° angle to brick wall); 1B (flat slab at 90° angle to a window/door); 2A (waffle ceiling at 90° angle to a brick wall); 2B (waffle ceiling at 90° angle to a window/door); 3A (flat slab at 180° angle to brick wall); and, 3B (flat slab at 180° angle to a window/door).
2. Samples collected at a minimum frequency of one per 100 l.f. of joint type per the Notification
3. Sample intervals are based on a 1-inch drill bit diameter for sample collection.
4. Room numbers correspond to floor numbers (i.e., Room 1XX is on 1st floor, Room 2XX is on 2nd floor, Room 3XX is on 3rd floor).
5. Results are presented in units of milligrams per kilogram (mg/kg).
6. ND = not detected above laboratory's minimum reporting limit, as indicated.
7. J or UJ = Result is qualified as estimated based on data validation.
8. l.f. = linear feet.
9. Gray-shaded cells indicates that media represented by this sample was subsequently removed as PCB waste; lateral extent delineated to more distant interval.

Table 2-4
Interior Post-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Media	Joint Type and Quantity	Detail Type[1]	Minimum Number Samples[2]	Sample Distance from Joint[3]	Room Number[4]	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Total PCBs
Concrete	Horizontal Joint at Exterior Windows / Doors (1,000 l.f.)	Type 1B (494 l.f.)	*Post-removal verification samples for concrete in former direct contact with caulking at exterior window/door joints were collected at the former interior/exterior boundary of the window frame; refer to Table 2-6 for data.*								
		Type 3B (6 l.f.)									
		Sill (500 l.f.)									
Concrete	Horizontal Joint At Interior Partition Windows & Doors and Vertical Joints at Stairwell & Penthouse Windows & Doors (508 l.f.)	Type 1B (185 l.f.)	2	Former direct contact	334	04/30/12	PH-VBC-432	0.095	ND	ND	ND
					213	05/11/12	PH-VBC-468	0.36	ND	ND	ND
		Type 2B (66 l.f.)	1		2nd Fl Disc Rm	05/17/12	PH-VBC-489	0.087	ND	ND	ND
		Type 3B (83 l.f.)	1		212	05/11/12	PH-VBC-469	0.34	ND	ND	ND
		Stairwell & Penthouse Windows & Doors (174 l.f.)	2		Stair 4, 1st floor	06/04/12	PH-VBC-550	0.10	ND	ND	ND
					Mech. Room Door	06/01/12	PH-VBC-538	0.10	ND	ND	ND
					Stair 3, 3rd floor	06/06/12	PH-VBC-572	0.091	ND	ND	ND
Concrete	Horizontal Interior Masonry Joint (Wall to Ceiling) (442 l.f.)	Type 1A (68 l.f.)	1	Former direct contact	334	04/30/12	PH-VBC-433	0.10	ND	ND	ND
					106	05/22/12	PH-VBC-502	0.095	ND	ND	ND
		Type 2A (251 l.f.)	3	Former direct contact	332	04/30/12	PH-VBC-431	0.095	ND	ND	ND
					213	05/17/12	PH-VBC-490	0.095	ND	ND	ND
					Pedestrian Underpass	06/06/12	PH-VBC-574	0.087	ND	ND	ND
		Type 3A (123 l.f.)	2	Former direct contact	212 (upper ceiling)	05/01/12	PH-VBC-434	0.095	0.11	0.11	0.22
					212 (under balcony)	05/11/12	PH-VBC-467	0.35	ND	ND	ND

Notes:
1. Concrete ceilings have been categorized into six types: 1A (flat slab at 90° angle to brick wall); 1B (flat slab at 90° angle to a window/door); 2A (waffle ceiling at 90° angle to a brick wall); 2B (waffle ceiling at 90° angle to a window/door); 3A (flat slab at 180° angle to brick wall); and, 3B (flat slab at 180° angle to a window/door).
2. Samples collected at a minimum frequency of one per 100 l.f. of joint type per the Notification.
3. Sample intervals are based on a 1-inch drill bit diameter for sample collection.
4. Room numbers correspond to floor numbers (i.e., Room 1XX is on 1st floor, Room 2XX is on 2nd floor, Room 3XX is on 3rd floor).
5. ND = not detected above laboratory's minimum reporting limit, as indicated.
6. Results are presented in units of milligrams per kilogram (mg/kg).
7. No results were qualified as estimated based on data validation.
8. l.f. = linear feet.

Table 2-5
Exterior Pre-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Joint Type and Quantity	Minimum Number Samples[1]	Proposed Cut Line	Sample Distance from Joint	Elevation	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Aroclor 1268	Total PCBs	Qualifier
Brick Beside Window Frame (Vertical Joint) 510 l.f.	5	Remove first full brick width beside vertical joints (min 8")	3.0" - 4.0"	Various	8/18/11	PH-CBB-070	0.10	ND	0.47	ND	0.47	J
			7.0" - 8.0"		8/18/11	PH-CBB-069	0.10	ND	0.19	ND	0.19	J
			7.0" - 8.0"		6/6/11	PH-CBB-035	0.033	ND	0.135	ND	0.135	
			7.0" - 8.0"		6/6/11	PH-CBB-036	0.033	ND	0.042	ND	0.042	
			7.0" - 8.0"		8/18/11	PH-CBB-066	0.10	ND	ND	ND	ND	
Brick Below Concrete (Horizontal Joint) 307 l.f.	6	Remove first 5 rows of bricks below spandrel and joint	2nd row	D	8/18/11	PH-CBB-075	0.50	ND	ND	2.8	**2.8**	J
			3rd row	D	8/18/11	PH-CBB-074	0.40	ND	ND	1.6	**1.6**	J
			4th row	D	9/6/11	PH-CBB-138	0.10	0.42	ND	0.95	**1.37**	
			5th row	D	3/19/12	PH-VBB-348	0.43	1.4	ND	2.7	**4.1**	
			6th row	D	3/27/12	PH-VBB-386	0.10	ND	ND	ND	ND	
		Remove first 6 rows of bricks below spandrel and joint	5th row	E	3/28/12	PH-VBB-393	0.38	ND	ND	2.8	**2.8**	
			6th row	E	4/9/12	PH-VBB-398	0.43	ND	ND	3.5	**3.5**	
			7th row	E	4/9/12	PH-VBB-418	0.10	ND	ND	0.33	0.33	J
		Remove first 4 rows of bricks below spandrel and joint	5th row	F (west)	3/19/12	PH-VBB-349	0.095	ND	ND	ND	ND	
			5th row	F (east)	3/19/12	PH-VBB-350	0.095	ND	ND	ND	ND	
			5th row	G	3/19/12	PH-VBB-351	0.095	ND	ND	0.11	0.11	
			3rd row	H (east)	8/18/11	PH-CBB-078	0.10	ND	ND	0.31	0.31	J
			2nd row	H (west)	6/6/11	PH-CBB-032	0.170	0.195	ND	3.92	**4.12**	
			3rd row	H (west)	6/6/11	PH-CBB-031	0.033	ND	ND	0.129	0.13	
			4th row	H (west)	6/6/11	PH-CBB-030	0.033	ND	ND	0.078	0.08	
			5th row	H (west)	3/19/12	PH-VBB-352	0.10	ND	ND	0.13	0.13	
			5th row	R-Line	3/19/12	PH-VBB-346	0.095	ND	ND	ND	ND	

Table 2-5
Exterior Pre-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Joint Type and Quantity	Minimum Number Samples[1]	Proposed Cut Line	Sample Distance from Joint	Elevation	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Aroclor 1268	Total PCBs	Qualifier
Concrete Above / Below Window Frame (Horizontal Joint) 1,000 l.f.	10	Window Header: remove min. 1-inch depth of concrete; min. distance of 3 inches from joint	3.0 - 4.0	D	3/23/12	PH-VBC-371	0.087	0.17	ND	ND	0.17	J
			3.0 - 4.0	E	3/23/12	PH-VBC-373	0.087	0.59	ND	0.13	0.72	J
			3.0 - 4.0	F	3/23/12	PH-VBC-376	0.10	0.38	ND	0.14	0.52	J
			3.0 - 4.0	G	3/27/12	PH-VBC-388	0.09	0.140	ND	0.13	0.27	
		Window Sill: remove min. 1-inch depth of concrete; min. distance of 3 inches from joint	3.0 - 4.0	D	3/23/12	PH-VBC-372	0.087	0.10	ND	0.25	0.35	J
			3.0 - 4.0	E	8/18/11	PH-CBC-071	0.10	ND	ND	ND	ND	
			3.0 - 4.0	E	3/23/12	PH-VBC-374	0.095	0.10	ND	0.52	0.62	J
			3.0 - 4.0	F	3/23/12	PH-VBC-375	0.10	ND	ND	ND	ND	UJ
			3.0 - 4.0	G	3/27/12	PH-VBC-387	0.10	0.12	ND	0.18	0.30	
			3.25 - 4.25	H	6/6/11	PH-CBC-041	0.033	0.040	0.072	ND	0.112	
			3.0 - 4.0	H	8/18/11	PH-CBC-068	0.10	ND	0.16	ND	0.16	J
Concrete Above Brick (Horizontal Joint) 307 l.f.	6	Remove min. 1 inch of concrete spandrel above joint to min. depth of 1 inch	1.0 - 2.0	H	6/6/11	PH-CBC-033	0.033	0.036	0.076	ND	0.112	
			1.0 - 2.0	D	8/18/11	PH-CBC-077	0.10	0.11	0.17	ND	0.28	J
			1.0 - 2.0	H	8/18/11	PH-CBC-079	0.10	0.23	0.29	ND	0.52	J
			1.0 - 2.0	F	3/22/12	PH-VBC-369	0.095	ND	ND	0.27	0.27	
			1.0 - 2.0	F	3/22/12	PH-VBC-370	0.095	ND	ND	0.24	0.24	
			1.0 - 2.0	E	3/23/12	PH-VBC-377	0.091	0.14	ND	0.66	0.80	J

Notes:
1. Samples collected at a minimum frequency of one per 100 l.f. of window joint, and one per 50 l.f. of brick to concrete joint per the Notification.
2. Sample intervals are based on a 1-inch drill bit diameter for sample collection.
3. ND = Not detected above laboratory's minimum reporting limit, as indicated.
4. J or UJ = Result is qualified as estimated based on data validation.
5. l.f. = linear feet.
6. Elevation identifiers are depicted on Figure 2-6.
7. Results are presented in units of milligrams per kilogram (mg/kg).
8. Gray-shaded cells indicates that media represented by this sample was subsequently removed as PCB waste; lateral extent delineated to more distant interval.

Table 2-6
Exterior Post-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Joint Type and Quantity	Minimum Number Samples[1]	Sample Location	Orientation	Elevation	Sample Date	Sample ID	Reporting Limit	Total PCBs
Concrete Above / Below Window Frame (Horizontal Joint) 1,000 l.f.	10	Sample collected from remaining concrete nearest to former joint	Above Frame	D	5/21/12	PH-VBC-497	0.10	ND
			Below Frame	D	5/19/12	PH-VBC-492	0.10	ND
			Above Frame	E	5/21/12	PH-VBC-498	0.10	ND
			Below Frame	E	5/19/12	PH-VBC-494	0.10	ND
			Above Frame	F	5/31/12	PH-VBC-518	0.087	ND
			Below Frame	F	5/19/12	PH-VBC-495	0.10	ND
			Above Frame	G	5/30/12	PH-VBC-513	0.091	ND
			Below Frame	G	5/30/12	PH-VBC-512	0.091	ND
			Above Frame	H	5/30/12	PH-VBC-514	0.087	ND
			Below Frame	H	5/30/12	PH-VBC-515	0.091	ND
Concrete Above Brick (Horizontal Joint) 307 l.f.	6	Sample collected from remaining concrete nearest to former joint	Above Brick	D	5/19/12	PH-VBC-493	0.10	ND
				E	5/21/12	PH-VBC-496	0.091	ND
				F	5/31/12	PH-VBC-519	0.087	ND
				G	5/30/12	PH-VBC-511	0.091	ND
				H	4/11/12	PH-VBC-403	0.10	ND
				H	5/31/12	PH-VBC-516	0.09	ND

Notes:
1. Samples collected at a minimum frequency of one per 100 l.f. of window joint, and one per 50 l.f. of brick to concrete joint per the Notification.
2. Sample intervals are based on a 1-inch drill bit diameter for sample collection.
3. Results are presented in units of milligrams per kilogram (mg/kg).
3. ND = Not detected above laboratory's minimum reporting limit, as indicated.
4. No results were qualified as estimated or rejected based on data validation.
5. l.f. = linear feet.
6. Elevation identifiers are depicted on Figure 2-6.

Table 2-7
Roof Pre-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Joint Type and Location	Media and Quantity	Sample Frequency (Number of Samples)	Proposed Cut Line	Sample Distance from Joint	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Aroclor 1268	Total PCBs	Qualifier
Roof 1, vertical joint at suspended spandrel	Brick (12 l.f.)	1 per 15 l.f. (1)	Remove min. 2.5 inches of brick beside vertical joint	2.5" - 3.5"	9/2/11	PH-CBB-135	0.091	ND	0.27	ND	0.27	
	Concrete (12 l.f.)	1 per 15 l.f. (1)	Remove min. 3" of concrete beside joint to min 1" depth	3.0 - 4.0	9/6/11	PH-CBC-137	0.095	ND	0.12	ND	0.12	
Roof 1, horizontal joint at metal bracket on spandrel	Concrete (32 l.f.)	1 per 15 l.f. (2)	Remove min. 3" of concrete above 90° corner adj to metal bracket to min 1" depth	3.0 - 4.0 (underside)	9/2/11	PH-CBC-136	0.40	ND	1.7	ND	**1.7**	
				3.0 - 4.0 (above corner)	4/13/12	PH-VBC-406	0.095	ND	ND	ND	ND	UJ
					4/13/12	PH-VBC-407	0.10	ND	ND	ND	ND	UJ
Roof 1, horizontal joint at parapet	Concrete (90 l.f.)	1 per 25 l.f. (3)	Remove min. 2 inch of concrete spandrel above & below joint to min. depth of 1 inch	2.0 - 3.0" above joint	5/23/12	PH-VBC-509	0.091	ND	ND	ND	ND	UJ
				2.0 - 3.0" below joint	5/31/12	PH-VBC-520	0.087	0.20	0.22	ND	0.42	
				2.0 - 3.0" above joint	6/1/12	PH-VBC-540	0.10	ND	ND	ND	ND	
Roof 3, horizontal joint at parapet	Concrete (170 l.f.)	1 per 25 l.f. (6)	Remove min. 2 inch of concrete spandrel above & below joint to min. depth of 1 inch	2.0 - 3.0 inches above joint	5/23/12	PH-VBC-503	0.087	ND	ND	ND	ND	
					5/23/12	PH-VBC-505	0.095	ND	ND	ND	ND	
					5/23/12	PH-VBC-507	0.095	0.14	ND	ND	0.14	
				2.0 - 3.0 inches below joint	5/23/12	PH-VBC-504	0.095	ND	ND	ND	ND	
					5/23/12	PH-VBC-506	0.10	ND	ND	ND	ND	
					5/23/12	PH-VBC-508	0.095	ND	ND	ND	ND	
Roof 4, horizontal joint at spandrel	Brick (52 l.f.)	1 per 20 l.f. (3)	Remove first 3 rows of bricks below spandrel and joint	4th row	9/1/11	PH-CBB-108	0.091	ND	0.87	ND	0.87	
					4/13/12	PH-VBB-408	0.10	ND	ND	0.23	0.23	J
					4/13/12	PH-VBB-410	0.10	ND	ND	0.31	0.31	J
	Concrete (52 l.f.)	1 per 20 l.f. (3)	Remove min. 1 inch of concrete spandrel above joint to min. depth of 1 inch	1.0 - 2.0 inches above joint	9/1/11	PH-CBC-110	0.091	0.11	0.16	ND	0.27	
					4/13/12	PH-VBC-409	0.100	0.35	ND	0.61	0.96	J
					4/13/12	PH-VBC-411	0.095	0.18	ND	0.22	0.40	J
Roof 4, horizontal joint at lower wall	Concrete (40 l.f.)	1 per 25 l.f. (1)	Remove min. 3" of concrete above & below joint to min. depth of 1"	2.0 - 3.0" above joint	6/1/12	PH-VBC-531	0.095	0.49	0.77	ND	**1.26**	
				3.0 - 4.0" above joint	6/6/12	PH-VBC-558	0.087	ND	ND	ND	ND	
Roof 5, horizontal joint at parapet	Concrete (68 l.f.)	1 per 25 l.f. (3)	Remove min. 1 inch of concrete spandrel above joint to min. depth of 1 inch	1.0 - 2.0 inches above joint	9/1/11	PH-CBC-112	0.095	ND	ND	ND	ND	
					4/13/12	PH-VBC-412	0.100	ND	ND	ND	ND	UJ
					4/13/12	PH-VBC-413	0.091	ND	ND	ND	ND	UJ
Roof 5, horizontal joint at perimeter wall	Concrete (115 l.f.)	1 per 25 l.f. (4)	Remove min. 2 inch of concrete spandrel above & below joint to min. depth of 1 inch	2.0 - 3.0" above joint	6/6/12	PH-VBC-562	0.095	ND	ND	ND	ND	
					6/6/12	PH-VBC-560	0.087	ND	ND	ND	ND	
				2.0 - 3.0" below joint	6/6/12	PH-VBC-559	0.087	ND	ND	ND	ND	
					6/6/12	PH-VBC-561	0.095	ND	ND	ND	ND	

Notes:
1. Sample intervals are based on a 1-inch drill bit diameter for sample collection.
2. ND = Not detected above laboratory's minimum reporting limit, as indicated.
3. J or UJ = Result is qualified as estimated based on data validation.
4. l.f. = linear feet.
5. Results are presented in units of milligrams per kilogram (mg/kg).
6. Gray-shaded cells indicates that media represented by this sample was subsequently removed as PCB waste; lateral extent delineated to more distant interval.

Table 2-8
Roof Post-Removal Verification Data
Pound Hall Partial Demolition - Harvard Law School

Joint Type and Location	Media and Quantity	Sample Frequency (Number of Samples)	Sample Location	Sample Date	Sample ID	Reporting Limit	Aroclor 1254	Aroclor 1260	Total PCBs
Roof 1, vertical joint at suspended spandrel	Concrete (12 l.f.)	1 per 15 l.f. (1)	Sample collected from remaining concrete nearest to former joint	6/2/12	PH-VBC-544	0.091	0.18	ND	0.18
Roof 1, horizontal joint at metal bracket on spandrel	Concrete (32 l.f.)	1 per 15 l.f. (2)	Sample collected from remaining concrete nearest to former joint	6/2/12	PH-VBC-545	0.1	ND	ND	ND
				6/2/12	PH-VBC-546	0.09	0.16	ND	0.16
Roof 1, horizontal joint at parapet	Concrete (90 l.f.)	1 per 25 l.f. (3)	Sample collected from remaining concrete nearest to former joint	6/1/12	PH-VBC-530	0.10	ND	ND	ND
				6/1/12	PH-VBC-539	0.10	ND	ND	ND
				6/1/12	PH-VBC-541	0.10	ND	ND	ND
Roof 3, horizontal joint at parapet	Concrete (170 l.f.)	1 per 25 l.f. (6)	Sample collected from remaining concrete nearest to former joint	6/1/12	PH-VBC-523	0.10	ND	ND	ND
				6/1/12	PH-VBC-525	0.10	ND	ND	ND
				6/1/12	PH-VBC-526	0.10	ND	ND	ND
				6/1/12	PH-VBC-527	0.091	ND	ND	ND
				6/1/12	PH-VBC-528	0.10	ND	ND	ND
				6/1/12	PH-VBC-529	0.095	ND	ND	ND
Roof 4, horizontal joint at spandrel	Concrete (52 l.f.)	1 per 20 l.f. (3)	Sample collected from remaining concrete nearest to former joint	6/1/12	PH-VBC-532	0.087	ND	ND	ND
				6/1/12	PH-VBC-533	0.091	ND	ND	ND
				6/1/12	PH-VBC-534	0.091	ND	ND	ND
Roof 4, horizontal joint at lower wall	Concrete (40 l.f.)	1 per 25 l.f. (1)	Sample collected from remaining concrete nearest to former joint	6/2/12	PH-VBC-543	0.095	ND	ND	ND
Roof 5, horizontal joint at parapet	Concrete (68 l.f.)	1 per 25 l.f. (3)	Sample collected from remaining concrete nearest to former joint	6/1/12	PH-VBC-535	0.087	ND	ND	ND
				6/1/12	PH-VBC-536	0.087	ND	ND	ND
				6/1/12	PH-VBC-537	0.095	ND	ND	ND
Roof 5, horizontal joint at perimeter wall	Concrete (115 l.f.)	1 per 25 l.f. (4)	Sample collected from remaining concrete nearest to former joint	6/6/12	PH-VBC-563	0.091	ND	ND	ND
				6/6/12	PH-VBC-565	0.095	ND	ND	ND
				6/6/12	PH-VBC-566	0.10	ND	ND	ND
				6/6/12	PH-VBC-567	0.091	ND	ND	ND

Notes:
1. Sample intervals are based on a 1-inch drill bit diameter for sample collection.
2. ND = Not detected above laboratory's minimum reporting limit, as indicated.
3. No results were qualified as estimated or rejected based on data validation.
4. l.f. = linear feet.
5. Results are presented in units of milligrams per kilogram (mg/kg).
6. Gray-shaded cells indicates that media represented by this sample was subsequently removed as PCB waste; lateral extent delineated to more distant interval.

Table 2-9
Basement Characterization Data
Pound Hall Partial Demolition - Harvard Law School

Media	Sample Interval	Sample Description	Sample Date	Sample ID	Reporting Limit	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	Qualifier
Initial Characterization of Basement Concrete										
Concrete	1-2" interval above 90-deg corner	Basement Door Concrete Headers - Door E	03/13/12	PH-VBC-304	1.0	ND	2.2	11	**13.2**	
Concrete	1-2" interval above 90-deg corner	Basement Door Concrete Headers - Door D	03/13/12	PH-VBC-305	1.0	ND	3.3	12	**15.3**	
CMU	6-7" interval beside vertical joint	Basement Door Concrete Verticals - Door P1	03/19/12	PH-VBC-342	0.94	ND	5.8	ND	**5.8**	
CMU	6-7" interval beside vertical joint	Basement Door Concrete Verticals - Door A2	03/20/12	PH-VBC-353	0.95	ND	8.8	ND	**8.8**	
CMU	1-2" interval above 90-deg corner	Basement Door Concrete Headers - Door A	03/20/12	PH-VBC-354	0.95	ND	12	ND	**12**	
Concrete	6-7" interval above corner	Basement Door Concrete Headers - Door E	03/26/12	PH-VBC-382	0.50	ND	0.74	2.5	**3.2**	
CMU	12-13" interval beside vertical joint	Basement Door Concrete Verticals - Door A2	03/26/12	PH-VBC-383	0.48	ND	1.6	2.4	**4.0**	
Concrete	12-13" interval beside vertical joint	Basement Door Concrete Verticals - Door S2	03/26/12	PH-VBC-385	1.0	ND	2.5	2.8	**5.3**	
Concrete	24-25" interval beside vertical joint	Basement Door Concrete Verticals - Door Q2	04/02/12	PH-VBC-394	0.50	ND	1.2	2.1	**3.3**	
Concrete	12-13" interval above corner	Basement Door Concrete Headers - Door E	04/02/12	PH-VBC-395	1.0	ND	ND	4.1	**4.1**	
Concrete	24-25" interval beside vertical joint	Basement Door Concrete Verticals - Door S2	04/03/12	PH-VBC-396	1.0	ND	2.2	4.2	**6.4**	
Concrete	12-13" interval beside vertical joint	Basement Door Concrete Verticals - Door K1	04/11/12	PH-VBC-400	0.45	ND	ND	3.7	**3.7**	
Concrete	5-6" interval above corner	Basement Door Concrete Headers - Door K	04/11/12	PH-VBC-402	1.9	ND	ND	15	**15**	
Concrete	6-7 lateral; 1-1.5" depth	Basement Door Concrete Verticals - Door F2	04/11/12	PH-VBC-404	0.10	ND	ND	ND	ND	
Concrete	6-7 lateral; 0-0.5" depth	Basement Door Concrete Verticals - Door F2	04/13/12	PH-VBC-414	1.00	ND	1.4	2.7	**4.1**	
Concrete	48-49" interval beside vertical joint	Basement Door Concrete Verticals - Door E2	04/19/12	PH-VBC-421	0.48	ND	1.8	2.2	**4.0**	
Concrete	96-97" interval beside vertical joint	Basement Door Concrete Verticals - Door E2	04/19/12	PH-VBC-422	0.48	ND	1.1	1.3	**2.4**	
CMU	48-49" interval beside vertical joint	Basement Door Concrete Verticals - Door M2	04/19/12	PH-VBC-424	0.48	ND	1.5	1.7	**3.2**	
CMU	96-97" interval beside vertical joint	Basement Door Concrete Verticals - Door M2	04/19/12	PH-VBC-425	0.45	ND	1.7	2.0	**3.7**	
Concrete	48-49" interval beside vertical joint	Basement Door Concrete Verticals - Door Q1	04/19/12	PH-VBC-426	0.20	ND	0.45	0.69	**1.14**	

Table 2-9
Basement Characterization Data
Pound Hall Partial Demolition - Harvard Law School

Media	Sample Interval	Sample Description	Sample Date	Sample ID	Reporting Limit	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	Qualifier
Initial Characterization of Basement Concrete (Continued)										
Concrete	96-97" interval beside vertical joint	Basement Door Concrete Verticals - Door Q1	04/19/12	PH-VBC-427	0.095	ND	0.16	0.28	0.44	
Concrete	West wall, 24' south of NW corner	Mechanical Room Testing - Surfaces Not Associated with Doors	05/03/12	PH-CBC-438	0.95	ND	ND	7.4	**7.4**	
Concrete	West wall, 2' north of SW corner	Mechanical Room Testing - Surfaces Not Associated with Doors	05/03/12	PH-CBC-442	0.50	ND	ND	2.9	**2.9**	
Concrete	East wall, 10 feet from Door K north vertical joint	Mechanical Room Testing - Surfaces Assoc. with Doors - Door K1	05/03/12	PH-CBC-447	0.45	ND	ND	2.1	**2.1**	
Concrete	East wall, 4 feet south of Door L west vertical joint	Mechanical Room Testing - Surfaces Assoc. with Doors - Door L1	05/03/12	PH-CBC-448	0.43	ND	ND	5.3	**5.3**	
Concrete	Transformer room unpainted wall 12" from Door J	Transformer Room - Door J2	05/04/12	PH-CBC-451	0.10	0.11	ND	0.76	0.87	
Concrete	Waffle ceiling, ~10 feet northwest of Door H, at full depth of waffle above ribs	Mechanical Room Testing - Surfaces Not Associated with Doors	05/17/12	PH-CBC-491	0.095	ND	ND	0.99	0.99	
Concrete	Approx. 15' east of building cut line	Southern perimeter wall in Room 028	06/04/12	PH-CBC-553	0.87	ND	4.6	6.8	**11.4**	
Concrete	Adjacent to paint sample PH-CN-459	Room 034 ceiling	06/04/12	PH-CBC-554	0.50	ND	2.1	3.1	**5.2**	
Concrete	Approx. 15' north of southeast corner	Room 034 eastern perimeter wall,	06/04/12	PH-CBC-555	0.48	ND	1.6	3.4	**5.0**	
Concrete	Approx. 20' east of Door I	Southern perimeter wall in pedestrian tunnel to Langdell	06/04/12	PH-CBC-556	0.48	ND	1.9	2.1	**4.0**	

Table 2-9
Basement Characterization Data
Pound Hall Partial Demolition - Harvard Law School

Media	Sample Interval	Sample Description	Sample Date	Sample ID	Reporting Limit	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	Qualifier
Basement Paint Characterization										
Paint	Main corridor wall outside of Rm 028, west of door A, beside window	CMU wall paint	05/04/12	PH-CN-453	8.7	ND	ND	100	**100**	J
Paint	Corridor adjacent to freight elevator, eastern wall, south of door M	CMU wall paint	05/07/12	PH-CN-458	3.9	ND	ND	44	44	J
Paint	Northen wall of stairwell S04, in copy center, approx 5 feet southwest of door S	Poured concrete wall paint	05/04/12	PH-CN-455	4.0	ND	ND	45	45	J
Paint	Main corridor/tunnel, approx 25 feet due east of door D, just east of elbow in tunnel on northern wall	Poured concrete wall paint	05/04/12	PH-CN-457	4.3	ND	ND	86	**86**	J
Paint	Main corridor/tunnel, approx 5 feet east of cutline along northern wall opposite door A	Poured concrete wall paint	05/07/12	PH-CN-462	8.1	ND	ND	130	**130**	J
Paint	Main hallway/tunnel, eastern portion, centered between doors F and G	Ceiling paint	05/04/12	PH-CN-456	4.0	ND	ND	39	39	J
Paint	Rm 034 Copy Center, approx 12-14 feet northwest of stairwell S04	Ceiling paint	05/07/12	PH-CN-459	8.8	ND	ND	150	**150**	J
Paint	Corridor at back entry to health services, approx 8 feet west of Q, on west side of plywood wall	Sheetrock paint	05/04/12	PH-CN-454	4.1	ND	ND	17	17	J
Paint	Rm 028, southwestern corner, approx 8 feet directly south of door A	Sheetrock paint	05/07/12	PH-CN-460	3.9	ND	ND	46	46	J
Paint	Rm 034 Copy Center, eastern section, approx 20' northeast of door S	Ductwork paint	05/07/12	PH-CN-461	8.4	ND	ND	68	**68**	J
Paint	Rm 034 western end of Copy Center, approx 10 feet from door C	Ductwork paint	05/04/12	PH-CN-452	5.0	ND	ND	87	**87**	J

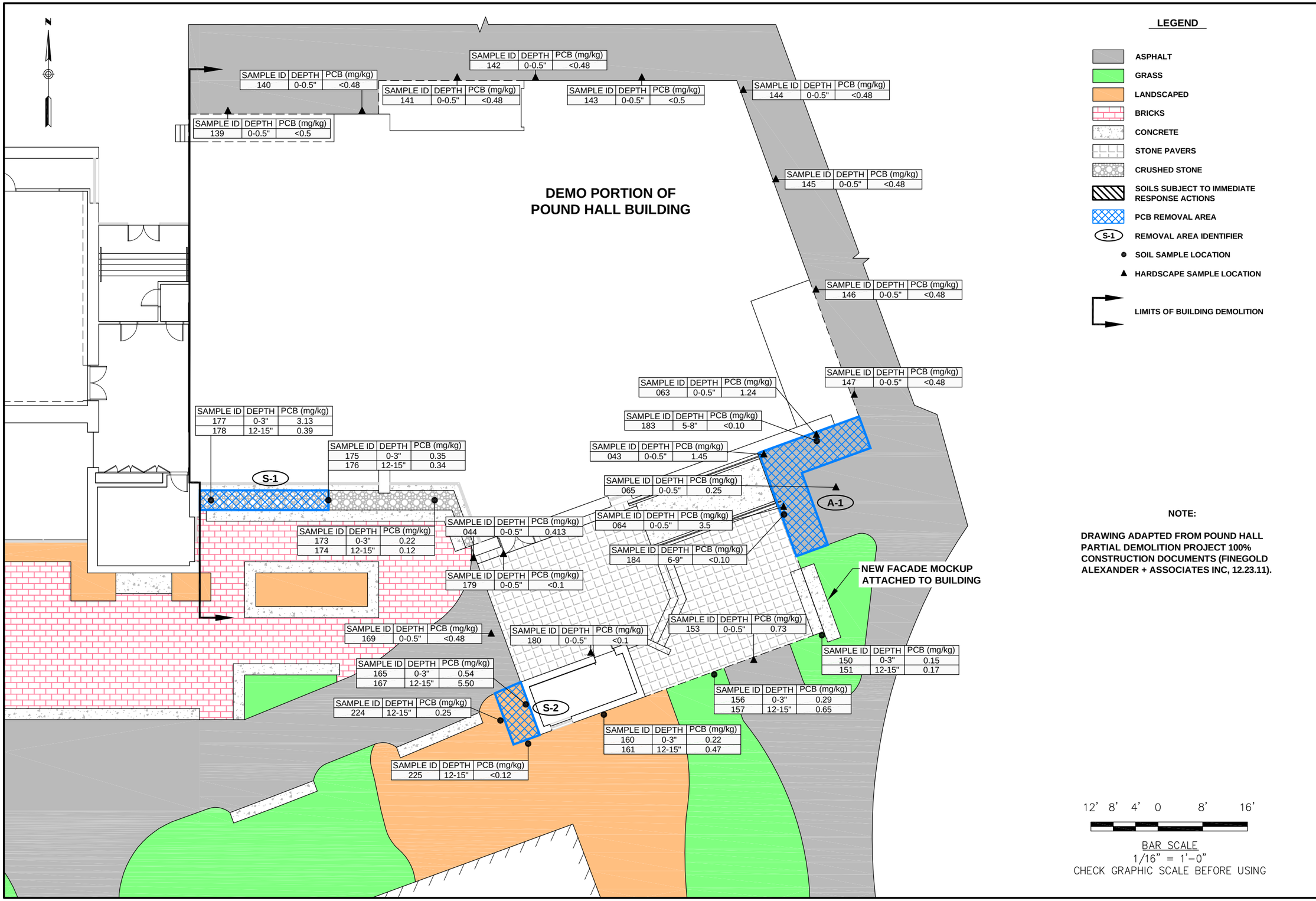
Table 2-9
Basement Characterization Data
Pound Hall Partial Demolition - Harvard Law School

Media	Sample Interval	Sample Description	Sample Date	Sample ID	Reporting Limit	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	Qualifier
Coating Removal Pilot Test										
Concrete	Concrete 1-2" above 90-deg corner; surface concrete 0-0.5"	Basement Door Concrete Headers - Door E; **sampled after paint removed by physical scraping**	04/13/12	PH-VBC-417	0.09	ND	0.13	0.28	0.41	
Concrete	12-13" interval from vertical; surface concrete 0-0.5"	**Applied Peel-Away ST-1 to painted wall surface** adj to Door E2	04/27/12	PH-VBC-429	0.43	ND	ND	0.76	0.76	
Concrete	Corridor wall opposite of Door A (to be removed after bldg separation); surface concrete 0-0.5"	**Applied Peel-Away ST-1 to painted wall surface**; some remant red/pink primer beneath	06/01/12	PH-VBC-522	0.091	ND	0.62	0.60	**1.22**	J
Concrete	12-13" interval from vertical; surface concrete 0-0.5"	**Applied Peel-Away ST-1 to unpainted wall surface** adj to Door K1	04/27/12	PH-VBC-430	0.50	ND	ND	4.1	**4.1**	
Concrete	12-13" interval; surface concrete 0-0.5"	**Surface Cleaning with TSP (still paint on the wall)** adj to Door E1	05/01/12	PH-VBC-435	0.87	ND	1.9	3.2	**5.1**	
Full Depth Concrete Core Waste Characterization Samples										
CMU (paint on one side)	Full depth of block wall (6.875" wall thickness; 1" wall thickness on either side of center void space)	Storage area/hallway; 5' south of door M; paint sample CMU#2	05/16/12	PH-VBC-478	0.10	ND	0.60	0.64	**1.24**	
CMU (paint on both sides)	Full depth of block wall (5.875" block thickness; 1" wall thickness on either side of center void space)	Tunnel; near paint sample CMU#1; 5' west of Door B	05/16/12	PH-VBC-482	0.50	ND	1.3	1.4	**2.7**	
Concrete (paint on both sides)	Full depth of poured concrete wall (8")	Tunnel wall, 6.5' south of Door E	05/16/12	PH-VBC-481	0.10	ND	ND	ND	ND	
Concrete (paint on one side)	Full depth of poured concrete wall (12")	Southeast wall/copy center room 17.5 feet east of Stair 4 eastern perimeter wall	05/16/12	PH-VBC-483	0.087	ND	ND	0.33	0.33	
Concrete (paint on one side)	Full depth of poured concrete wall (12")	Tunnel; wall south and around corner from paint sample Wall #2	05/16/12	PH-VBC-484	0.087	ND	ND	0.20	0.20	

Table 2-9
Basement Characterization Data
Pound Hall Partial Demolition - Harvard Law School

Media	Sample Interval	Sample Description	Sample Date	Sample ID	Reporting Limit	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs	Qualifier
Characterization of Basement Concrete to Remain Below Ground Surface										
Concrete	North wall, 10' east of NW corner (potential wall to remain in place)	Mechanical Room partial wall to remain	05/03/12	PH-CBC-446	1.00	ND	ND	5.5	**5.5**	
Concrete	Transformer room unpainted east wall, 4' from SE corner (wall to remain in place)	Transformer Room partial wall to remain	05/04/12	PH-CBC-450	0.50	ND	ND	2.8	**2.8**	
Concrete	Peel away on western wall of room 012L, 1 foot north of southern room wall	Wall on demo line to remain after paint removal	06/06/12	PH-VBC-571	0.450	ND	0.93	1.9	**2.83**	
Concrete	Peel away on western corridor wall 0.5 feet north of Door A	Wall on demo line to remain after paint removal	06/04/12	PH-VBC-547	0.100	ND	0.54	0.52	1.06	
Concrete	Peel away on western wall of Room 028, 2.5 feet north of southern wall	Wall on demo line to remain after paint removal	06/14/12	PH-VBC-575	0.450	ND	1.5	2.1	**3.6**	
Concrete	Peel away on northwestern wall, 14 feet NW of Stair 4	Western wall to remain after paint removal	06/04/12	PH-VBC-548	0.091	ND	0.37	0.39	0.76	
Concrete	Peel away on northwestern wall, 1.5 feet NW of Stair 4	Western wall to remain after paint removal	06/06/12	PH-VBC-573	0.10	ND	0.60	0.45	1.05	
Concrete	Peel away on western wall of Stair 4, 4 feet north	Western wall to remain after paint removal	06/14/12	PH-VBC-576	0.095	ND	0.86	ND	0.86	
Concrete	Peel away on southern wall of Stair 4, 2 feet east	Southern wall to remain after paint removal	06/14/12	PH-VBC-577	0.095	ND	1.10	ND	**1.10**	
Concrete	Peel away on southern wall of Stair 4, 6 feet west	Southern wall to remain after paint removal	06/06/12	PH-VBC-570	0.087	ND	0.38	0.17	0.55	
Concrete	Peel away on southeastern wall, 2 feet northeast	Southern wall to remain after paint removal	06/14/12	PH-VBC-578	0.095	ND	0.37	0.34	0.71	
Concrete	Peel away on southeastern wall, 12 feet northeast of Stair 4	Southern wall to remain after paint removal	06/04/12	PH-VBC-549	0.091	ND	0.52	0.70	**1.22**	

Notes:
1. Sample intervals are based on a 1-inch drill bit diameter for sample collection.
2. ND = Not detected above laboratory's minimum reporting limit, as indicated.
3. J = Result is qualified as estimated based on data validation.
4. l.f. = linear feet.
5. CMU = concrete masonry unit.
6. Results are presented in units of milligrams per kilogram (mg/kg).



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PRE-EXCAVATION DATA AND PROPOSED LIMITS OF EXCAVATION

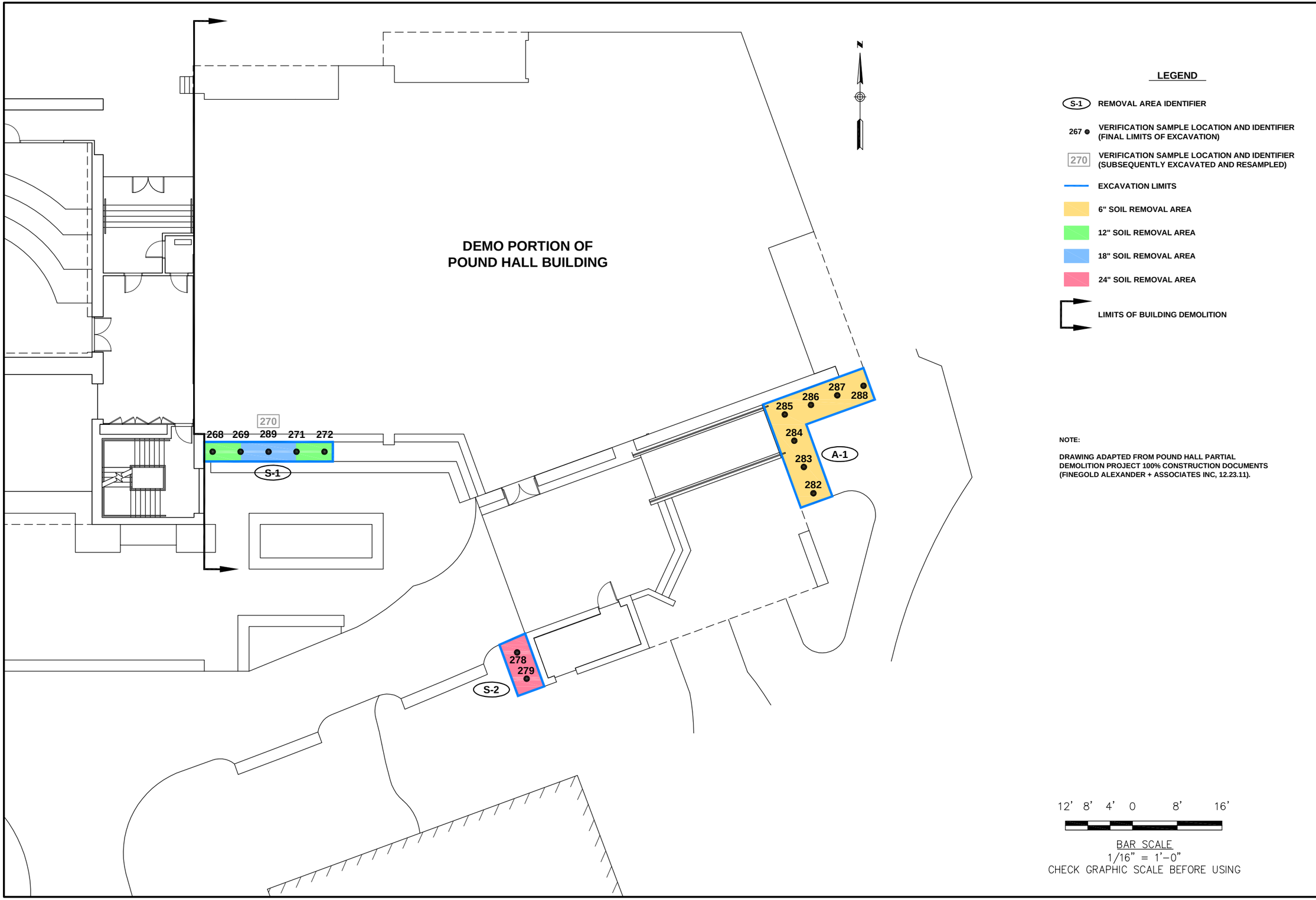
DESIGNED BY: ALW
DRAWN BY: EVR
CHECKED BY: JAH
FIGURE 2-1.DWG

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

COMPLETION REPORT

JOB NO: 223868
DATE: FEBRUARY 2013
SCALE: AS NOTED

FIGURE 2-1



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POST-EXCAVATION DATA AND FINAL LIMITS OF EXCAVATION

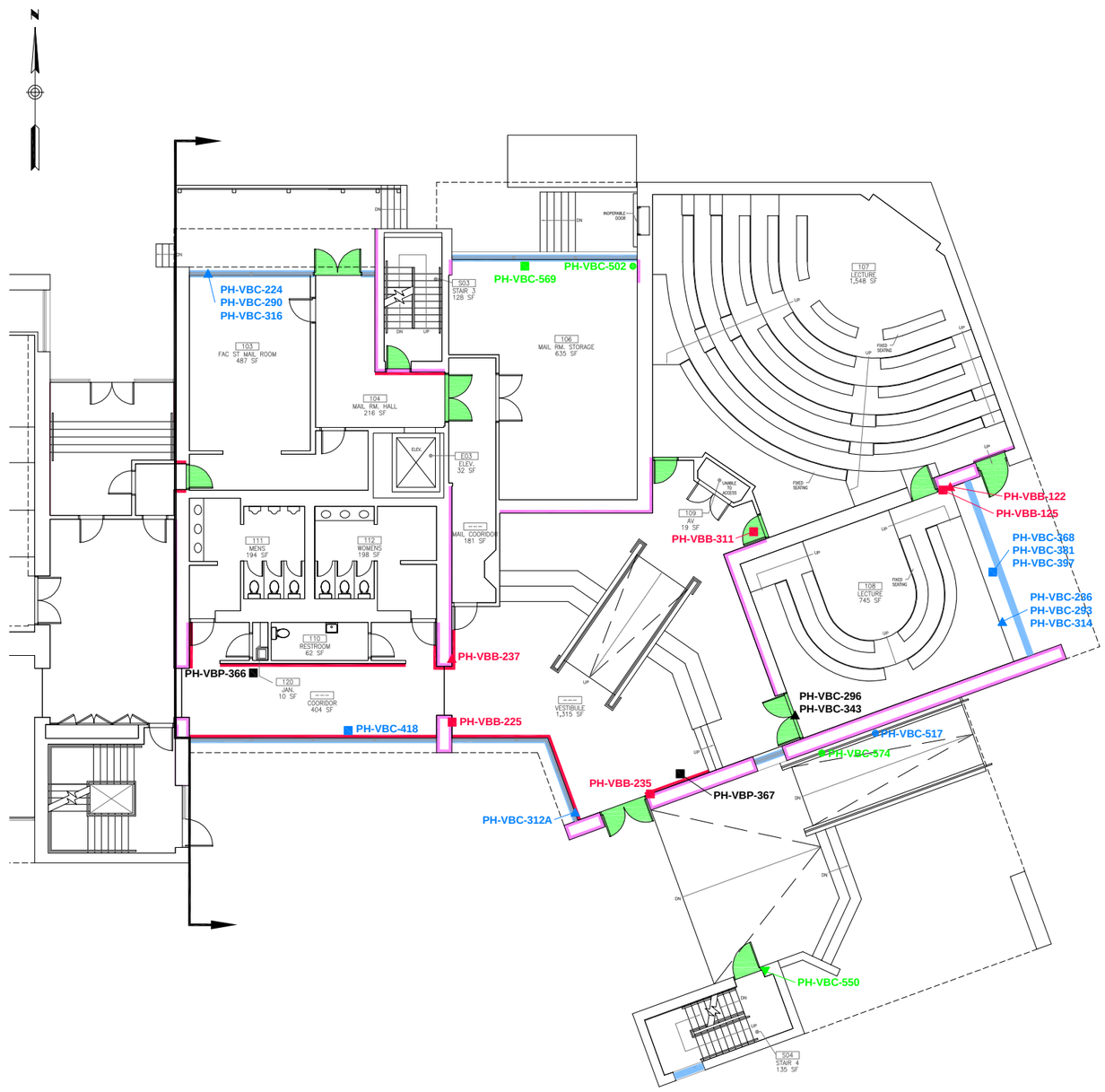
DESIGNED BY: ALW
DRAWN BY: EVR
CHECKED BY: JAH
FIGURE 2-2.DWG

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

COMPLETION REPORT

JOB NO: 223868
DATE: FEBRUARY 2013
SCALE: AS NOTED

FIGURE 2-2



LEGEND

- FLOOR JOINT CAULKING
- BRICK WALL
- EXTERIOR WINDOWS
- METAL DOOR FRAME ADJACENT TO MASONRY
- PRE-REMOVAL BRICK VERIFICATION SAMPLE BELOW CONCRETE
- PRE-REMOVAL BRICK VERIFICATION SAMPLE AT VERTICAL JOINT
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT SPANDREL ABOVE EXTERIOR WINDOWS
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT SILL BELOW EXTERIOR WINDOWS
- PRE-REMOVAL CONCRETE ABOVE INTERIOR WINDOWS AND DOORS
- PRE-REMOVAL VERIFICATION SAMPLES AT SLATE FLOOR TILES
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE AT SILL BELOW EXTERIOR WINDOWS
- POST-REMOVAL CONCRETE VERIFICATION SAMPLES AT STAIRWELL DOORS
- LIMITS OF BUILDING DEMOLITION

NOTE:

CONCRETE AND BRICK SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE US EPA "STANDARD OPERATING PROCEDURE FOR SAMPLING POROUS SURFACES FOR POLYCHLORINATED BIPHENYLS (PCB) REVISED MAY 5, 2011". AT INTERVALS NOTED ON DATA TABLES.

12' 8' 4' 0 8' 16'

BAR SCALE
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REV	DESCRIPTION	DATE

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Figure 2-3.dwg

FIRST FLOOR REMEDIATION AREAS AND SAMPLE LOCATIONS

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

COMPLETION REPORT

JOB NO.: 223868
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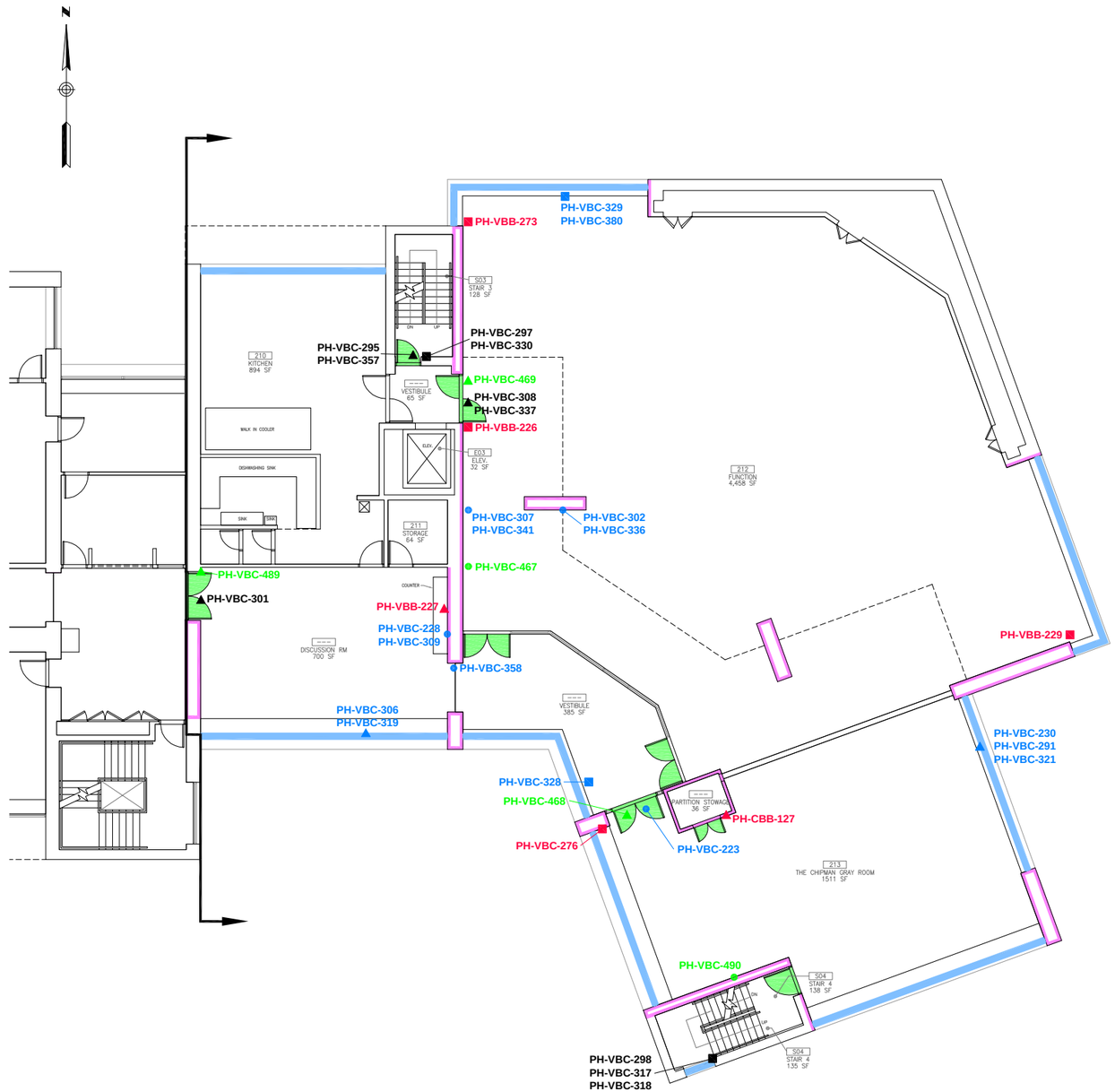
FIGURE 2-3

\\ANDOVER\Projects\223868 Harvard University - Pound Hall PCBs\wip\Drawings\Completion Report\Figure 2-3.dwg, Feb 04, 2013 - 10:58am



LEGEND

- BRICK WALL
- EXTERIOR WINDOWS
- METAL DOOR FRAME ADJACENT TO MASONRY
- PRE-REMOVAL BRICK VERIFICATION SAMPLE BELOW CONCRETE
- PRE-REMOVAL BRICK VERIFICATION SAMPLE AT VERTICAL JOINT
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT SPANDREL ABOVE EXTERIOR WINDOWS
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT SILL BELOW EXTERIOR WINDOWS
- PRE-REMOVAL CONCRETE ABOVE INTERIOR WINDOWS AND DOORS
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLES AT STAIRWELLS
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE AT SPANDREL/CEILING ABOVE WINDOWS AND DOORS
- LIMITS OF BUILDING DEMOLITION

NOTES:

1. DRAWING ADAPTED FROM POUND HALL PARTIAL DEMOLITION PROJECT 100% CONSTRUCTION DOCUMENTS (FINEGOLD ALEXANDER + ASSOCIATES INC, 12.23.11).
2. CONCRETE AND BRICK SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE US EPA "STANDARD OPERATING PROCEDURE FOR SAMPLING POROUS SURFACES FOR POLYCHLORINATED BIPHENYLS (PCB) REVISED MAY 5, 2011". AT INTERVALS NOTED ON DATA TABLES.

12' 8' 4' 0 8' 16'

BAR SCALE
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CHECKED BY: JAH
Figure 2-4.dwg

SECOND FLOOR REMEDIATION AREAS AND SAMPLE LOCATIONS

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

COMPLETION REPORT

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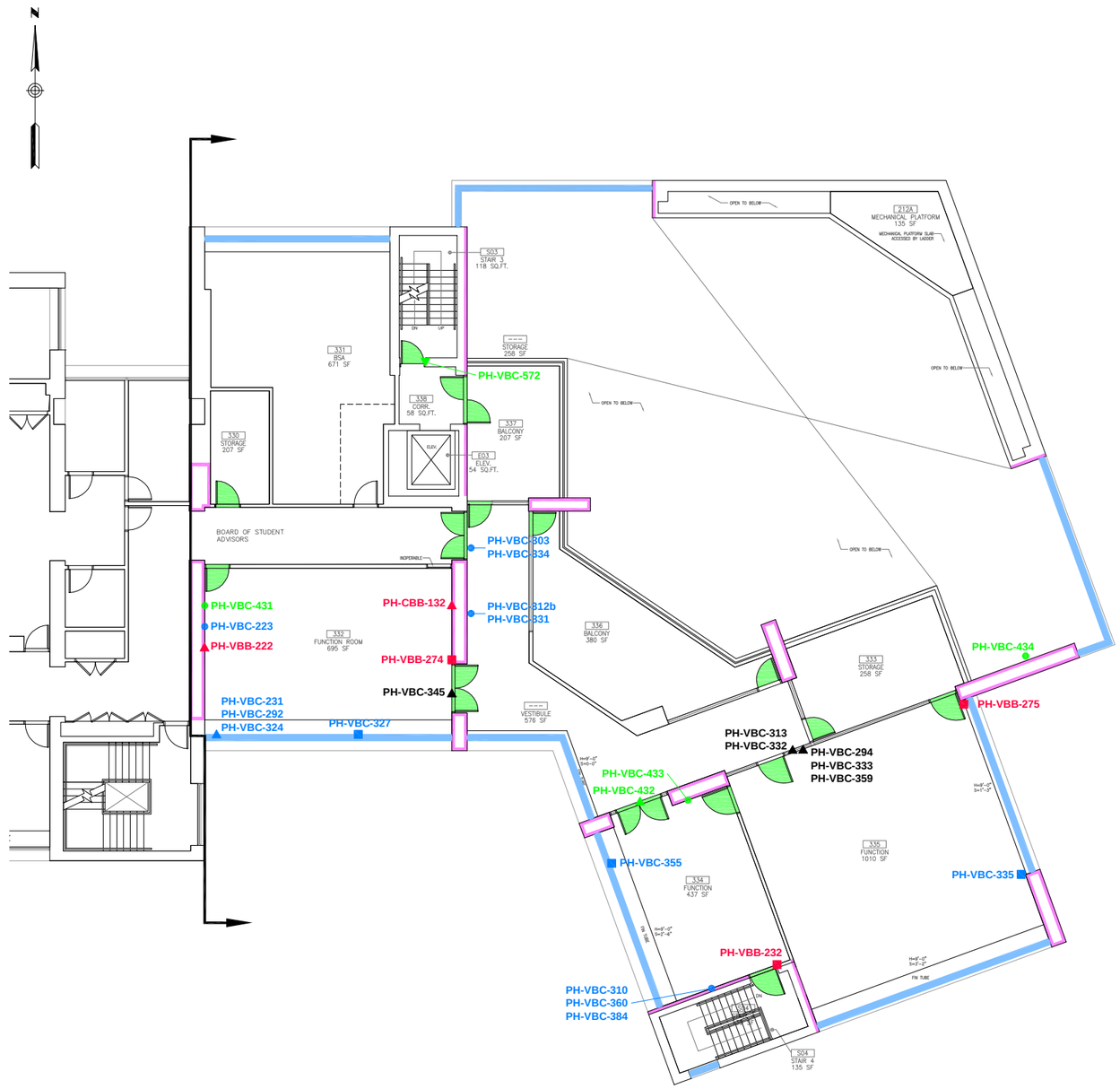
FIGURE 2-4

\\ANDOVER\Projects\223868 Harvard University - Pound Hall PCBs\wip\Drawings\Completion Report\Figure 2-4.dwg, Feb 04, 2013 - 11:14am



LEGEND

- BRICK WALL
- EXTERIOR WINDOWS
- METAL DOOR FRAME ADJACENT TO MASONRY
- PRE-REMOVAL BRICK VERIFICATION SAMPLE BELOW CONCRETE
- PRE-REMOVAL BRICK VERIFICATION SAMPLE AT VERTICAL JOINT
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT SPANDREL ABOVE EXTERIOR WINDOWS
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT SILL BELOW EXTERIOR WINDOWS
- PRE-REMOVAL CONCRETE ABOVE INTERIOR WINDOWS AND DOORS
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE AT SPANDREL/CEILING ABOVE WINDOWS AND DOORS
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE AT SILL BELOW EXTERIOR WINDOWS
- POST-REMOVAL CONCRETE VERIFICATION SAMPLES AT STAIRWELL DOORS
- LIMITS OF BUILDING DEMOLITION

NOTES:

1. DRAWING ADAPTED FROM POUND HALL PARTIAL DEMOLITION PROJECT 100% CONSTRUCTION DOCUMENTS (FINEGOLD ALEXANDER + ASSOCIATES INC, 12.23.11).
2. CONCRETE AND BRICK SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE US EPA "STANDARD OPERATING PROCEDURE FOR SAMPLING POROUS SURFACES FOR POLYCHLORINATED BIPHENYLS (PCB) REVISED MAY 5, 2011". AT INTERVALS NOTED ON DATA TABLES.

12' 8' 4' 0 8' 16'

BAR SCALE
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REV	DESCRIPTION	DATE

DESIGNED BY: ALW
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Figure 2-5.dwg

THIRD FLOOR REMEDIATION AREAS AND SAMPLE LOCATIONS

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

COMPLETION REPORT

JOB NO.: 223868
DATE: FEBRUARY 2013
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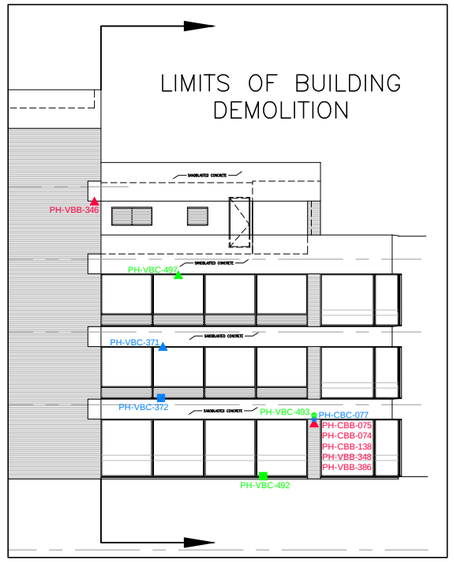
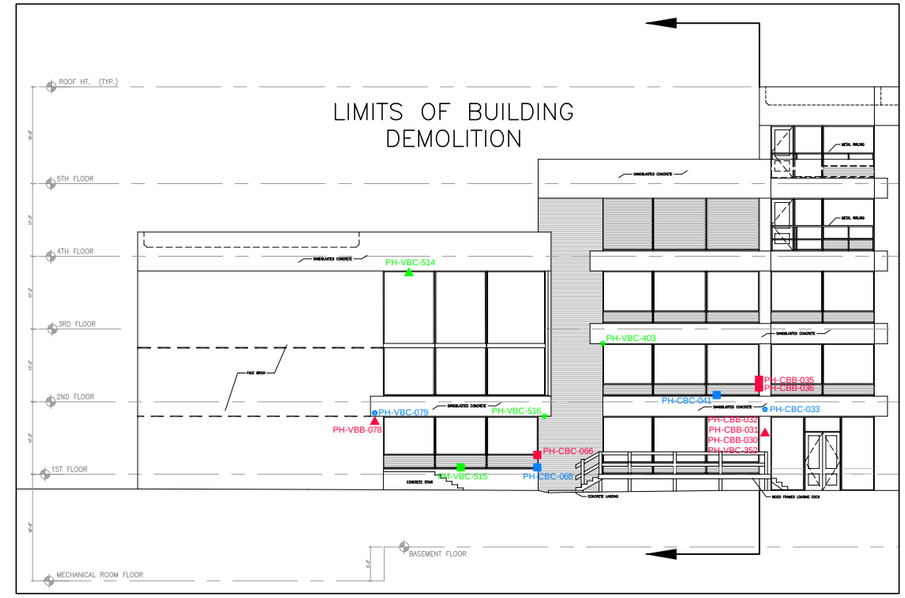
FIGURE 2-5

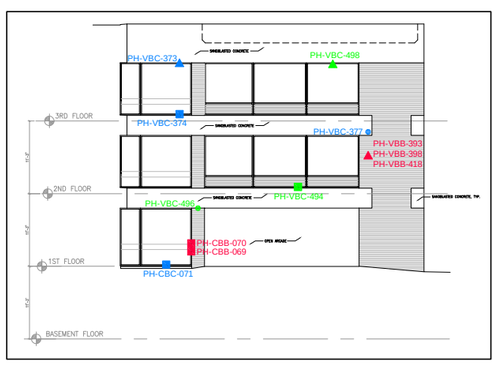
\\ANDOVER\Projects\223868 Harvard University - Pound Hall PCBs\wip\Drawings\Completion Report\Figure 2-5.dwg, Feb 04, 2013 - 11:16am



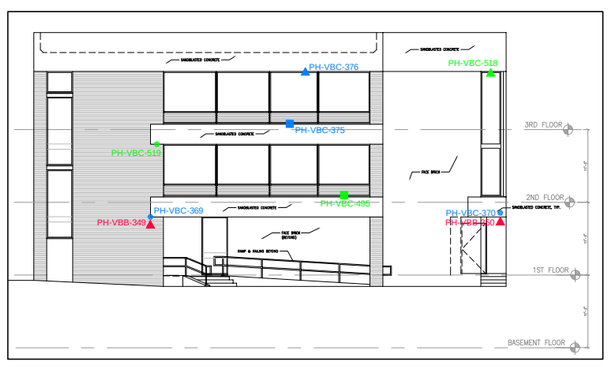
D EXISTING EXTERIOR ELEVATION–SOUTHWEST FACADE
SCALE: 3/32" = 1'–0"



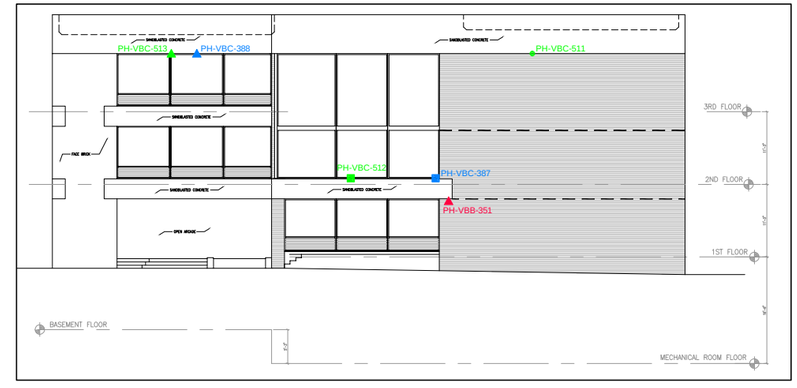
H EXISTING EXTERIOR ELEVATION–NORTH FACADE
SCALE: 3/32" = 1'–0"



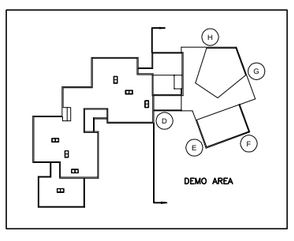
E EXISTING EXTERIOR ELEVATION–WEST FACADE
SCALE: 3/32" = 1'–0"



F EXISTING EXTERIOR ELEVATION–SOUTH FACADE
SCALE: 3/32" = 1'–0"



G EXISTING EXTERIOR ELEVATION–SOUTHEAST FACADE
SCALE: 3/32" = 1'–0"



ELEVATION KEY

LEGEND

- PRE-REMOVAL BRICK VERIFICATION SAMPLE BELOW CONCRETE
- PRE-REMOVAL BRICK VERIFICATION SAMPLE AT VERTICAL JOINT
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT SPANDREL ABOVE WINDOW
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT SILL BELOW WINDOW
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE AT SPANDREL ABOVE WINDOW
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE AT SILL BELOW WINDOW

NOTES:

1. DRAWING ADAPTED FROM POUND HALL PARTIAL DEMOLITION PROJECT 100% CONSTRUCTION DOCUMENTS (FINEGOLD ALEXANDER + ASSOCIATES INC, 12.23.11).
2. CONCRETE AND BRICK SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE US EPA "STANDARD OPERATING PROCEDURE FOR SAMPLING POROUS SURFACES FOR POLYCHLORINATED BIPHENYLS (PCB) REVISED MAY 5, 2011". AT INTERVALS NOTED ON DATA TABLES.

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DRAWN BY: EVR
CHECKED BY: JAH
Figure 2-6.dwg

EXTERIOR FACADE REMEDIATION AREAS AND SAMPLE LOCATIONS

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

COMPLETION REPORT

JOB NO.: 223868
DATE: FEBRUARY 2013
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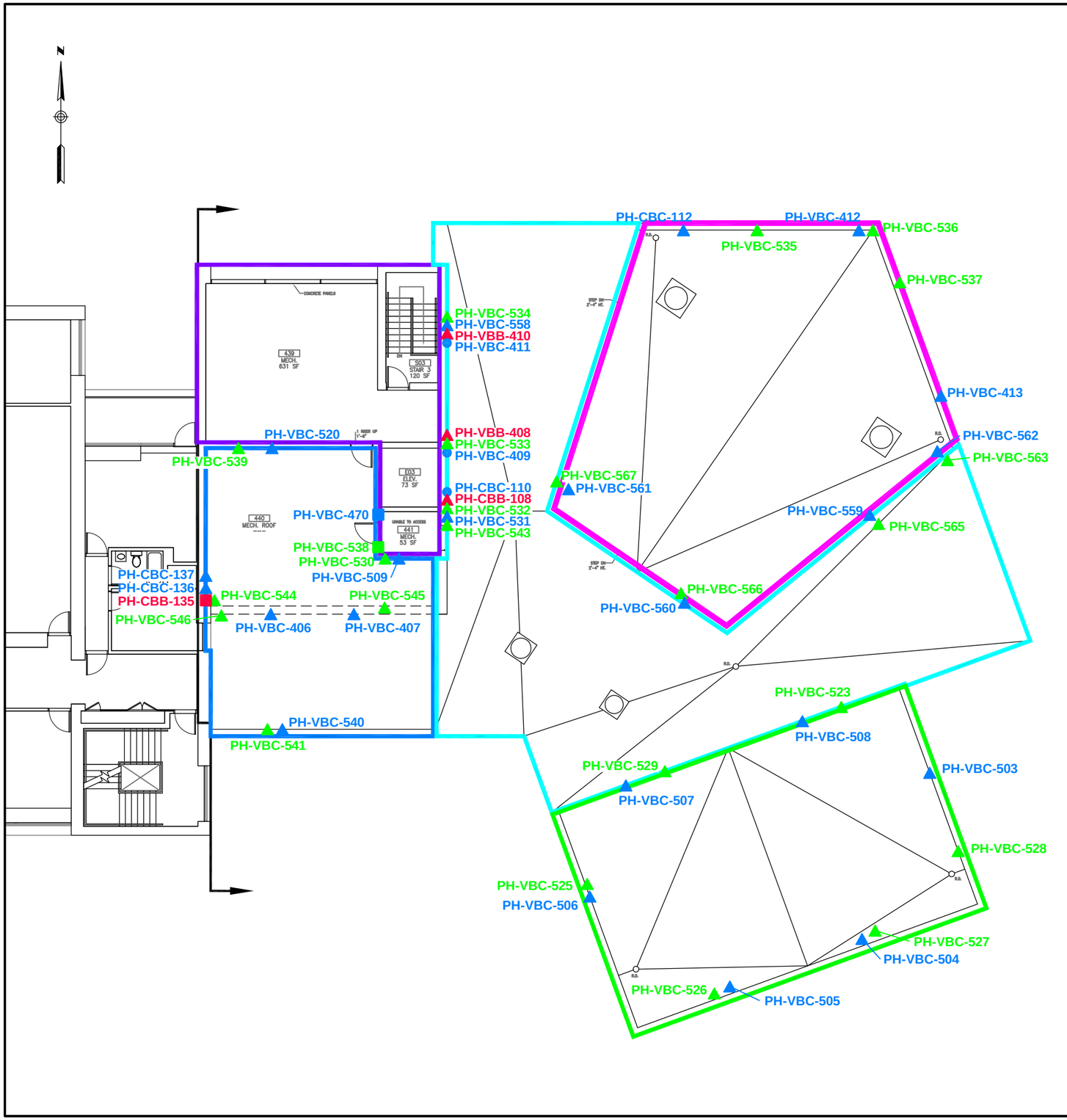
FIGURE 2-6

\\ANDOVER\Projects\223868 Harvard University – Pound Hall PCBs\wip\Drawings\Completion Report\Figure 2-6.dwg, Feb 04, 2013 – 11:19am



LEGEND

- PRE-REMOVAL BRICK VERIFICATION SAMPLE BELOW CONCRETE
- PRE-REMOVAL BRICK VERIFICATION SAMPLE AT VERTICAL JOINT
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT SPANDREL
- PRE-REMOVAL CONCRETE VERIFICATION SAMPLE AT EXTERIOR DOORS
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE ABOVE BRICK
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE AT SPANDREL
- POST-REMOVAL CONCRETE VERIFICATION SAMPLE AT EXTERIOR DOORS
- LIMITS OF BUILDING DEMOLITION
- ROOF 1 BOUNDARY
- ROOF 2 BOUNDARY
- ROOF 3 BOUNDARY
- ROOF 4 BOUNDARY
- ROOF 5 BOUNDARY

NOTES:

1. DRAWING ADAPTED FROM POUND HALL PARTIAL DEMOLITION PROJECT 100% CONSTRUCTION DOCUMENTS (FINEGOLD ALEXANDER + ASSOCIATES INC, 12.23.11).
2. CONCRETE AND BRICK SAMPLES WERE COLLECTED IN ACCORDANCE WITH THE US EPA "STANDARD OPERATING PROCEDURE FOR SAMPLING POROUS SURFACES FOR POLYCHLORINATED BIPHENYLS (PCB) REVISED MAY 5, 2011". AT INTERVALS NOTED ON DATA TABLES.

12' 8' 4' 0 8' 16'

BAR SCALE
1/16" = 1'-0"
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ROOF REMEDIATION AREAS AND SAMPLE LOCATIONS

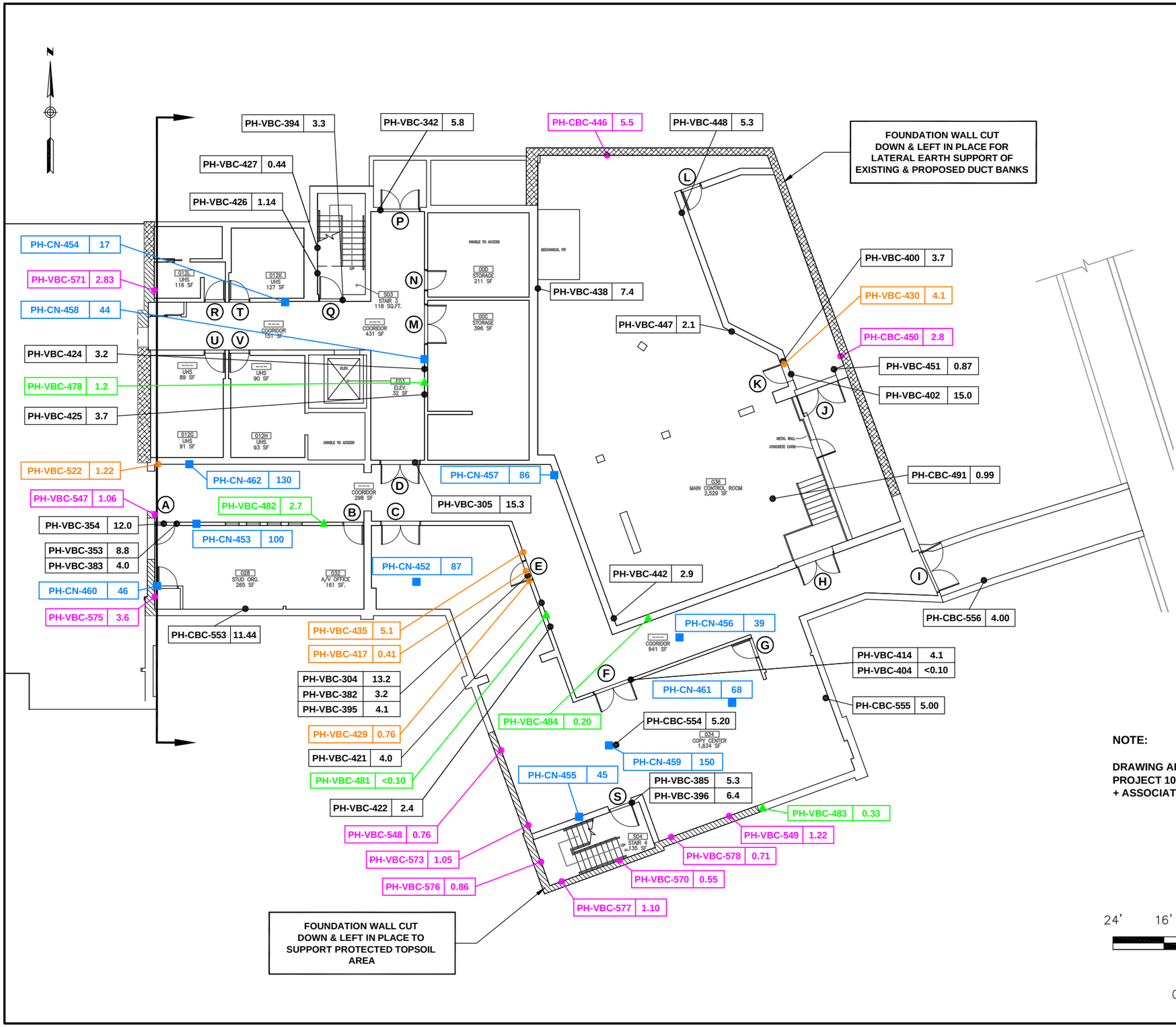
DESIGNED BY: ALW
DRAWN BY: EVR
CHECKED BY: JAH
FIGURE 2-7.DWG

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

COMPLETION REPORT

JOB NO: 223868
DATE: FEBRUARY 2013
SCALE: AS NOTED

FIGURE 2-7



LEGEND

- (A) DOOR IDENTIFIER
- ● CONCRETE WALL OR CEILING SAMPLE LOCATION (0.5" SAMPLE DEPTH)
- ● COATING REMOVAL PILOT TEST CONCRETE SAMPLE LOCATION (0.5" SAMPLE DEPTH)
- ■ PAINT SAMPLE LOCATION (SURFACE)
- ▲ WALL CORE SAMPLE LOCATION (FULL WALL THICKNESS)
- ● CONCRETE WALL SAMPLE LOCATION REMAINING IN PLACE (0.5" SAMPLE DEPTH)
- UNPAINTED CONCRETE FOUNDATION WALL REMAINING BELOW GRADE
- FORMERLY PAINTED CONCRETE FOUNDATION WALL REMAINING BELOW GRADE
- 0.87 PCB CONCENTRATION IN PARTS PER MILLION (ppm)
- LIMITS OF BUILDING DEMOLITION

NOTE:

DRAWING ADAPTED FROM POUND HALL PARTIAL DEMOLITION PROJECT 100% CONSTRUCTION DOCUMENTS (FINEGOLD ALEXANDER + ASSOCIATES INC, 12.23.11).

24' 16' 8' 0 16' 32'

BAR SCALE
1/16" = 1'-0"
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BASEMENT CHARACTERIZATION DATA

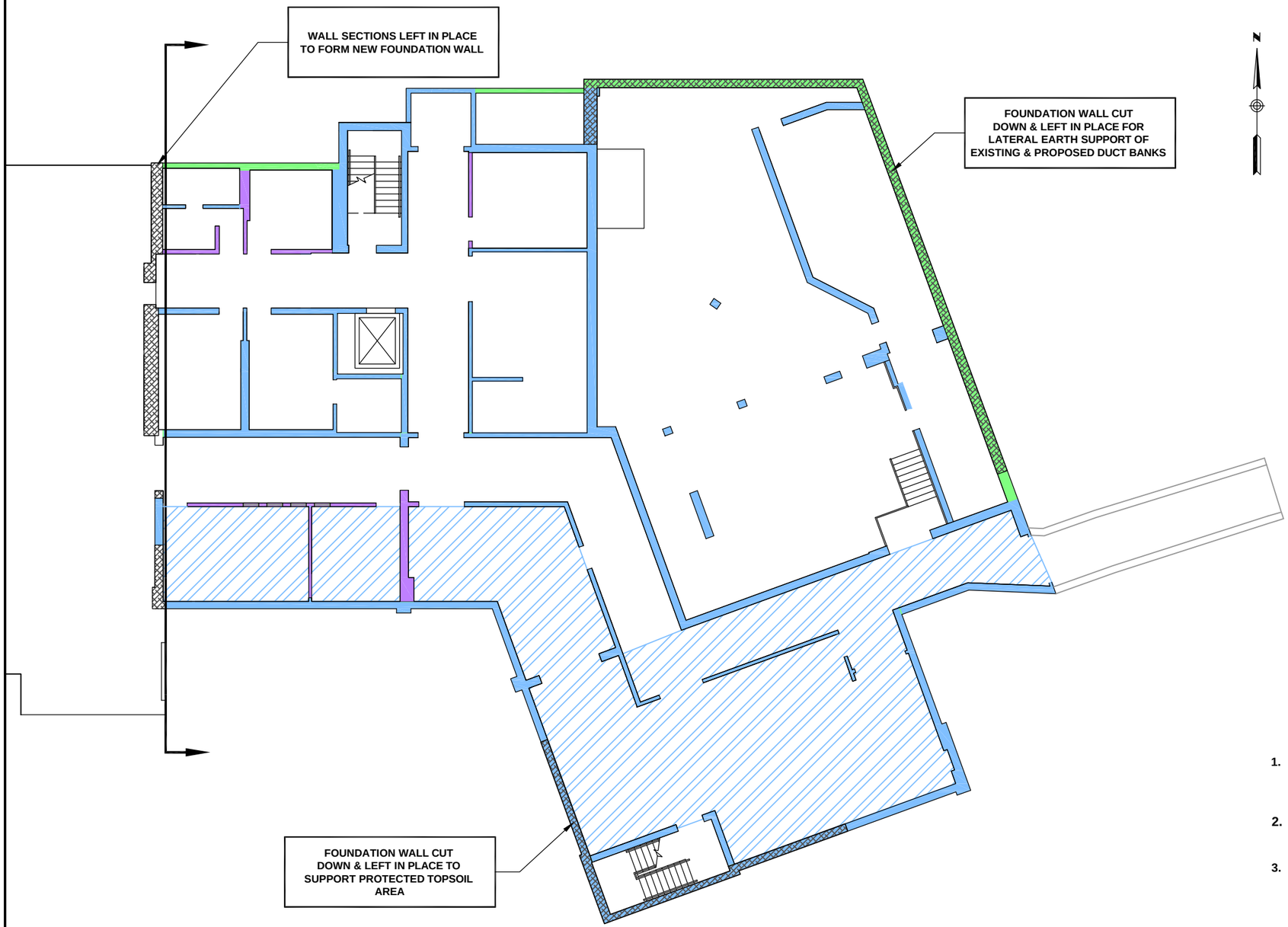
DESIGNED BY: ALW
DRAWN BY: EVR
CHECKED BY: JAH
FIGURE 2-8.DWG

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

COMPLETION REPORT

JOB NO: 223868
DATE: FEBRUARY 2013
SCALE: AS NOTED

FIGURE 2-8



LEGEND

- AREA OF WHITE PAINTED CEILING TO MINERVA ENTERPRISES
- CMU BLOCK WALLS TO EQ WAYNE DISPOSAL
- CMU BLOCK OR POURED CONCRETE WALL TO MINERVA ENTERPRISES
- POURED CONCRETE WALLS TO TURNKEY RECYCLING
- LIMITS OF BUILDING DEMOLITION
- PORTION OF CONCRETE FOUNDATION WALL REMAINING BELOW GRADE FOLLOWING PAINT REMOVAL, AS REQUIRED

NOTES:

1. DRAWING ADAPTED FROM POUND HALL PARTIAL DEMOLITION PROJECT 100% CONSTRUCTION DOCUMENTS (FINEGOLD ALEXANDER + ASSOCIATES INC, 12.23.11).
2. WHITE PAINTED MEP SEGREGATED FOR DISPOSAL TO EQ WAYNE DISPOSAL LANDFILL.
3. PORTIONS OF THE UNPAINTED CEILING WERE MANAGED COLLECTIVELY WITH THE PAINTED CEILING TO MINERVA ENTERPRISES. THE UNPAINTED CEILING ABOVE THE FORMER MECHANICAL ROOM AND TRANSFORMER ROOM WERE SEGREGATED FOR RECYCLING AT THE DELLA LAND FACILITY.

24' 16' 8' 0 16' 32'

BAR SCALE
1/16" = 1'-0"
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BASEMENT MATERIALS MANAGEMENT PLAN

DESIGNED BY: ALW
DRAWN BY: EVR
CHECKED BY: JAH
FIGURE 2-9.DWG

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

COMPLETION REPORT

JOB NO: 223868
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SCALE: AS NOTED

FIGURE 2-9

APPENDIX A: EPA APPROVAL (JANUARY 26, 2012)

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

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

JAN 26 2012

Mr. John Arciprete
Director of Facilities and Operations
Harvard University
Department of Environmental Health, Safety and Emergency Management
46 Blackstone Street
Cambridge, Massachusetts 02139

Re: PCB Cleanup and Disposal Approval under 40 CFR §§ 761.61(a) and (c) and § 761.79(h)
Pound Hall Partial Demolition Project/Cambridge, Massachusetts

Dear Mr. Arciprete:

This is in response to the President and Fellows of Harvard College (Harvard) Notification[1] for approval of a proposed PCB cleanup at its building known as Pound Hall and located at 1563 Massachusetts Avenue in Cambridge Massachusetts (the Site). Specifically, the Site has PCB caulk that exceeds the allowable PCB levels under the federal PCB regulations at 40 CFR § 761.20 and § 761.62. PCBs concentrations have also been identified in adjacent building surfaces which exceed the allowable PCB levels for unrestricted use under 40 CFR § 761.61(a).

Harvard has requested an approval to address the PCB contamination at the Site under 40 CFR §§ 761.61(a) and (c). Harvard is proposing the following activities under this project:

- Remove and dispose of certain interior and exterior caulk (approximately 4,400 LF) and associated metal window and door frames/components and metal roof components, as a greater than or equal to ($\geq$ 50 parts per million (ppm) PCB waste.

---

[1] Information was prepared by Woodard & Curran on behalf of Harvard to satisfy the requirements under 40 CFR §§ 761.61(a) and (c), and §761.79(h). Information was submitted dated October, 2011 (SIP) and January 17, 2012 (e-mails on verification sampling and abatement protocols). These submittals together shall be referred to as the "Notification".

- Remove and dispose of certain *porous surfaces* (i.e. concrete and brick) in direct contact with PCB caulk at a RCRA hazardous waste landfill or TSCA permitted disposal facility, including the following:

    - Brick masonry adjacent to: exterior window joints (575 LF); exterior concrete joints (300 LF); interior partition window and door joints (550 LF); interior concrete joints (1,100 LF); and roof joints (75 LF).

    - Concrete masonry adjacent to: exterior window/door joints (1,100 LF); exterior brick joints (300 LF); interior partition window and door joints (450 LF); interior brick joints (1,100 LF); and roof joints (175 LF).

- Remove and dispose of PCB-contaminated ground surfaces with greater than (>) 1 ppm.

Harvard has determined that certain glazing and caulk located at the Site and containing PCB concentrations less than (<) 50 ppm meet the criteria for *Excluded PCB products* under § 761.3. Under the PCB regulations, *Excluded PCB products* are authorized for use. However, as indicated in the Notification, Harvard is proposing to remove these products in conjunction with the PCB work described in the Notification.

With the exception of the proposed verification sampling frequency for *porous surfaces* the Notification meets the requirements and standards established under §§ 761.61(a), 761.62, and 761.79 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 proposed verification sampling frequencies, including both pre-removal and post-removal sampling, will be adequate to confirm that the PCB cleanup standard has been met. EPA finds that the activities proposed by Harvard will create no unreasonable risk when conducted in accordance with the Notification and this Approval. EPA may approve the sampling under § 761.61(c).

Harvard may proceed with its cleanup in accordance with 40 CFR §§ 761.61(a) and (c); § 761.62; § 761.79(h); its Notification; and this Approval, subject to the conditions of Attachment 1. Please note the following conditions in Attachment 1:

- Condition 1a. This condition requires submittal of the additional characterization sampling results for ground surfaces which is required to define the extent of the PCB contamination within these materials. The submittal should include Harvard's plan to clean up the PCB contamination in these materials.

- Condition 12.b. This condition requires notification to EPA in the event **any** verification sample exceeds the PCB cleanup standard of 1 ppm.

Questions and correspondence on this Approval should be directed 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

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: J. Hamel, Woodard & Curran
MassDEP - Boston
File

Attachment 1

ATTACHMENT 1:

PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS
HARVARD LAW SCHOOL – POUND HALL
1563 MASSACHUSETTS AVENUE ("the Site")
CAMBRIDGE, 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[2].

    a. The President and Fellows of Harvard College (Harvard) shall submit the results of the additional characterization sampling for ground surfaces to EPA for review and approval prior to initiating cleanup of the PCBs associated with these materials. A plan describing the cleanup, including disposal of the wastes, shall also be included. Harvard may submit this plan as a modification to the Notification in accordance with Condition 14 of this Approval.

2. Harvard 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. Harvard 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 implementation of these cleanup activities, Harvard shall contact EPA within 24 hours for direction on PCB cleanup and sampling requirements.

6. Harvard 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 Harvard has or receives information indicating that Harvard 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.

---

[2] Information was prepared by Woodard & Curran on behalf of Harvard to satisfy the requirements under 40 CFR §§ 761.61(a) and (c) and 761.79(h). Information was submitted dated October, 2011 (SIP) and January 17, 2012 (e-mails on verification sampling and abatement protocols). These submittals together 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 Harvard are authorized to conduct the activities set forth in the Notification. Harvard 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 Harvard from compliance with any applicable requirements of federal, state or local law; or 3) release Harvard from liability for, or otherwise resolve, any violations of federal, state or local law.

NOTIFICATION AND CERTIFICATION CONDITIONS

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

10. Harvard shall submit the following information for EPA review and/or approval:

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

    b. a contractor work plan, 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 sample extraction and analysis requirements, and the quality assurance requirements specified in the Notification and in this Approval.

CLEANUP AND DISPOSAL CONDITIONS

11. 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.

12. PCB-contaminated materials shall be removed and/or decontaminated, and verification sampling and analysis shall be conducted as described below:

    a. All visible PCB caulk shall be removed and PCB-contaminated *porous surfaces* (e.g. concrete and brick) shall be removed as described in the Notification.

    b. The PCB decontamination standard for *porous surfaces* (i.e. concrete and brick) shall be less than or equal to (≤) 1 part per million (ppm).

        i) All 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, and with the frequency described in the Notification to confirm that all greater than (>) 1 ppm PCB-contaminated *porous surfaces* have been removed.

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

        iii) In the event **any** verification sampling result is > 1 ppm, Harvard shall contact EPA for a determination on the appropriate verification sampling frequency for the remaining surfaces.

    c. The PCB decontamination standard for ground surfaces (e.g., soils, concrete, asphalt) shall be ≤ 1 ppm.

        i) *Bulk PCB remediation waste* samples (e.g., soils) shall be collected on a bulk basis (i.e. mg/Kg) and PCB analytical results shall be reported on a dry weight analysis.

        ii) *Porous surface* sampling shall be performed on a bulk basis (i.e. mg/Kg). Samples 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

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

13. 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, MONITORING, MODIFICATION AND REVOCATION CONDITIONS

14. 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).

15. 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.

16. 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.

17. 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; if EPA finds that these activities present an unreasonable risk to public health or the environment; or if EPA finds that there is migration of PCBs from the Site. Harvard may apply for appropriate modifications in the event new rules, standards, or guidance comes into effect.

18. Harvard 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 Harvard to allow such an inspection (as authorized by Section 11 of TSCA) shall be grounds for revocation of this Approval.

RECORDKEEPING AND REPORTING CONDITIONS

19. Harvard 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 decontamination and the analytical sampling shall be established and maintained by Harvard 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.

20. Harvard shall submit a Final Completion Report (Report) to the EPA within 120 days of completion of the activities described under this Approval. At a minimum, this Report shall include: a discussion of the project activities, including any modifications that were made to the cleanup plan; characterization and post-abatement 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 PCBs removed and disposed off-site; copies of manifests and/or bills of lading; and, copies of certificates of disposal or similar certifications issued by the disposer, if applicable.

21. 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

22. 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

Amy Martin

From: Kimberly Tisa <Tisa.Kimberly@epamail.epa.gov>
Sent: Thursday, February 16, 2012 11:24 AM
To: Jeff Hamel
Cc: christine_leblanc@harvard.edu; tcasto@csl-consulting.com
Subject: RE: Comments for Contractor Work Plan and Soil Remediation Plan for Pound Hall

We have reviewed your response to our comments on the contractor work plan as well as the soil remediation plan.

We have no further comments on the plans.

Kimberly N. Tisa
U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912

Phone: 617.918.1527
E-Fax: 617.918.0527

tisa.kimberly@epa.gov

From: "Jeff Hamel" <jhamel@woodardcurran.com>
To: Kimberly Tisa/R1/USEPA/US@EPA
Cc: <tcasto@csl-consulting.com>, <christine_leblanc@harvard.edu>
Date: 02/16/2012 09:29 AM
Subject: RE: Comments for Contractor Work Plan and Soil Remediation Plan for Pound Hall

Hi Kim,

On behalf of the President and Fellows of Harvard College (Harvard), please find attached responses, prepared by the associated Contractor's
for the work, to EPA's comments on the Pound Hall Contractor Work
Plan and the Soil Remediation Plan.

If you have any questions or require additional information, please call or e-mail.

Thanks

Jeff

Jeffrey Hamel, LSP, LEP
Senior Vice President
Woodard & Curran

978-557-8150
978-317-3635 (cell)

-----Original Message-----
From: Kimberly Tisa [mailto:Tisa.Kimberly@epamail.epa.gov]
Sent: Monday, February 13, 2012 2:28 PM
To: Jeff Hamel
Subject: RE: Comments for Contractor Work Plan and Soil Remediation Plan for Pound Hall

Following are EPA's comments for Pound Hall Contractor Work Plan and the Soil Remediation Plan. The Soil Remediation Plan was submitted as a proposed modification to the Notification while the Contractor Work Plan was submitted per EPA's January 26, 2012 Approval Condition 10.

Please feel free to call should you have any questions.

YES Contractor Work Plan dated February 2, 2012

1. Page 3. General Work Sequence and Procedures. Item b. Please explain what is meant by the term “dissipate” in this item. EPA understands that HEPA filtration systems are generally placed inside of containment to collect dust (and PCB contamination) prior to being exhausted outside of the work area.

2. Page 4. Item i and page 5. Item l. If the contractor intends to segregate the waste streams (PCB wastes < 50 ppm and PCB wastes ≥ 50 ppm), then discussion of how segregation will be accomplished needs to be provided.

3. Page 6.

   a. Item o. This item identifies locations for disposal of the wastes < 50 ppm and ≥ 50 ppm. However, it is unclear whether this item goes with the Exterior Ground Surfaces (Item n) or with the entire plan. In either case, the materials that are going to be segregated need to be identified clearly. See comment 2.

   b. Item q. Please identify what type of conveyance a “lull” is?

4. Page 7. Item u.

   a. It is unclear whether this item is describing “end of day” decontamination practices or the decontamination procedure that will be completed at the end of the project.

   b. If the double wash/double rinse method defined in Subpart S is not going to be used for equipment decontamination, then surface wipe sampling would be required to verify that the equipment has been decontaminated to ≤ 10 µg/100 cm2.

5. Decontamination Enclosure System/Work Area Isolation

   a. Pages were not numbers.
   b. There is reference to pre-cleaning of non-removable furniture, book shelving, equipment, etc in the proposed work areas. It is EPA’s understanding that the building

will be demolished. As such, please clarify the purpose of pre-cleaning non-removable furniture, other fixed objects, etc within the work areas.

c. If pre-cleaning is conducted, please clarify how the effectiveness of the cleaning will be determined.

d. The Control Access section references the “asbestos abatement project work area”. Please review this part of the Contractor Work Plan to assure that it is applicable to a PCB remediation project as there are a number of references to “asbestos abatement project” and asbestos-related references are cited.

e. Please clarify if the containment and negative pressure will be used during abatement of roof caulk and PCB-contaminated building substrates. Will any change to the set-up be required due to the location?

Soil Remediation Plan

1. Page 3. It is unclear if the extent proposed for asphalt removal is sufficient. Page 2 indicates that PCBs were identified at 3.5 ppm within 1-foot of the building. The inset Table 1 on Figure 1 is difficult to read. Please clarify the extent of the proposed asphalt removal.

2. Please clarify is the asphalt will require sizing for disposal purposes. If so, how will this be performed?

3. Please clarify how the layer of crushed stone will be managed that is located on top of soils which have PCBs > 1 ppm.

4. Page 3.

a. Verification Section. The text indicates that the goal is to removal soils and asphalt and to verify that remaining soil goals have been achieved. The verification sampling only discusses soil. Please clarify how asphalt will be confirmed to be ≤ 1 ppm PCBs.

b. Waste Storage and Disposal. With respect to stockpiling, there is only reference to soil stockpiles, not asphalt. Thus, please confirm if the asphalt will be stockpiled or placed into containers.

5. Page 4. Decontamination of Equipment.

a. With respect to Subpart S, PCBs must be soluble to at least 5% by weight in the selected solvent. Based on the information sheet provided, there is no information to support this criteria. If documentation to support the solubility cannot be provided, wipe sampling in accordance with Subpart P may be used to confirm that the decontamination standard of ≤ 10 µg/100 cm2 for non-porous surfaces has been achieved.

b. Please be aware that the liquid waste stream (i.e., decontamination rinse water) may not be mixed with the PCB remediation waste (i.e., soils) for disposal purposes. Mixing the waste streams violates the provisions of § 761.1 (a)(5) and § 761.61(a)(5)(iv).

Kimberly N. Tisa
U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912

Phone: 617.918.1527
E-Fax: 617.918.0527

tisa.kimberly@epa.gov
[attachment "Responses to EPA comments - Contractor submittals.pdf" deleted by Kimberly Tisa/R1/USEPA/US]

Amy Martin

From: Kimberly Tisa <Tisa.Kimberly@epamail.epa.gov>
Sent: Wednesday, June 13, 2012 7:12 AM
To: Jeff Hamel
Subject: RE: Harvard Pound Hall Modification Request

Jeff-

I have reviewed all information pertaining to this request, including the June 7, 2012 Modification Letter; and June 12, 2012 e-mail clarification and response my EPA comments.

All information was submitted in accordance with Condition 14 of the January 26, 2012 EPA Approval. This condition provides for a modification to your cleanup plan in accordance with the procedural requirements under 761.61(a)(3)(ii).

Based on the information, the proposed modification is consistent with the requirements and standards for management and disposal of the identified wastes under 761.61(a) and (c) and 761.79(h). Two walls will be left in-place following removal of the paint as these walls are needed to support existing and proposed underground utilities and above grade landscape areas. These walls will be "filled in" with clean material and a plaza constructed at ground surface.

The modification can thus be implemented as described with the following conditions:

* For documenting PCB concentration in the walls to remain in place, it is estimated that the northern wall is 35-feet long and the western wall is 25 feet long. As such, a minimum of 4 samples from the northern wall and 3 samples from the western wall shall be collected following paint abatement to document the concentrations of PCBs that will remain at the site.

* If PCB concentrations > 1 ppm will remain, a deed notice on this area shall be recorded and submitted to EPA in accordance with 761.61(a)(8) and the conditions of the Approval.

* If PCB concentrations in the remaining walls are determined to be > 25 ppm, Harvard shall contact EPA prior to backfilling to discuss if any additional measures are necessary to support leaving the PCBs in-place.

Should you have any questions regarding the above, please feel free to contact me.

Kimberly N. Tisa, PCB Coordinator
U.S. Environmental Protection Agency
5 Post Office Square, Suite 100
Mail Code: OSRR07-2
Boston, MA 02109-3912

Phone: 617.918.1527
E-Fax: 617.918.0527

tisa.kimberly@epa.gov

Inactive hide details for "Jeff Hamel" ---06/12/2012 03:39:50 PM---Hi Kim, As a follow-up and based on our discussion, the fol"Jeff Hamel" ---06/12/2012 03:39:50 PM---Hi Kim, As a follow-up and based on our discussion, the following is the interpretation / clarifica

From: "Jeff Hamel" <jhamel@woodardcurran.com>
To: Kimberly Tisa/R1/USEPA/US@EPA
Date: 06/12/2012 03:39 PM
Subject: RE: Harvard Pound Hall Modification Request

Hi Kim,

As a follow-up and based on our discussion, the following is the interpretation / clarification of the painted concrete walls and ceiling in the basement:

The characterization data collected at the site indicates that the paint itself is > 50 ppm and thus considered a PCB Bulk Product Waste; the underlying concrete detected PCBs > 1 ppm and < 50 ppm and is considered a < 50 ppm PCB Remediation Waste; composites of the painted concrete (0.5 inch depths) detected PCBs > 1 ppm and < 50 ppm and is considered a < 50 ppm PCB waste; and a representative sample of the wall (core samples thru the full thickness) were < 2 ppm and considered by the MassDEP as a non-hazardous waste.

Please call or e-mail if you have any questions or require further information.

Thanks

Jeff

-----Original Message-----
From: Jeff Hamel
Sent: Tuesday, June 12, 2012 3:13 PM
To: 'Kimberly Tisa'
Subject: RE: Harvard Pound Hall Modification Request

Hi Kim,

Responses to your questions are provided below.

1. painted concrete is considered a PCB remediation waste if the PCB have migrated into the substrate. For purposes of disposal in a non-haz or TSCA landfill, PCB concentrations in the concrete have to be < 50 ppm. This needs to be discussed as such in the plan.

Response - Page 2, last paragraph, first sentence mentions the paint as PCB Bulk product waste and concrete as < 50 ppm PCB Remediation Waste. I can expand this discussion if needed. The painted foundation wall references back to this section and lists it as < 50 ppm PCB containing concrete.

2. need MassDEP policy on disposal if aggregate is < 2 ppm .

Response - MassDEP's e-mail responding to our question is attached.

3. can't find new samples we discussed.

Response - on the figure, 3 samples were collected from the southern foundation wall, progressing from left to right across the figure, PH-CBC-553; PH-CNC-555, and PH-CBC-556; One sample from the painted ceiling, located in the southern most room adjacent to paint sample PH-CN-459 (new concrete sample is PH-CBC-554).

4. the estimated footage of 300 sq. ft does not seem correct when I look at Figure 1 and the associated scale.

Response - the 300 sq ft is the portion of the painted foundation wall in the SE corner of the basement. The southern wall is 35 ft long and the western wall is 25 ft long. The lower 5 feet of the wall is remaining, so paint is being removed from that area (60 ft x 5 ft = 300 sq ft).

5. I only see the 1 wall where paint is on both sides of the CMU (PCB conc. is aggregate is 2.7 ppm). This is proposed for disposal at EQ. Is this the only wall with this distinction?

Response - There are 5 other such walls shown on the figure; they are indicated by yellow walls with no gray shade in the room (gray indicates one side is unpainted).

Let me know if you need more info or clarification.

Thanks

Jeff

-----Original Message-----
From: Kimberly Tisa [mailto:Tisa.Kimberly@epamail.epa.gov]
Sent: Tuesday, June 12, 2012 11:52 AM
To: Jeff Hamel
Subject: Re: Harvard Pound Hall Modification Request

Jeff-

I read the submittal and we need to discuss the following:

1. painted concrete is considered a PCB remediation waste if the PCB have migrated into the substrate. For purposes of disposal in a non-haz or TSCA landfill, PCB concentrations in the concrete have to be < 50 ppm. This needs to be discussed as such in the plan.

2. need MassDEP policy on disposal if aggregate is < 2 ppm .

3. can't find new samples we discussed.

4. the estimated footage of 300 sq. ft does not seem correct when I look at Figure 1 and the associated scale.

5. I only see the 1 wall where paint is on both sides of the CMU (PCB conc. is aggregate is 2.7 ppm). This is proposed for disposal at EQ. Is this the only wall with this distinction?

Kimberly N. Tisa
U.S. Environmental Protection Agency
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Phone: 617.918.1527
E-Fax: 617.918.0527

tisa.kimberly@epa.gov

Inactive hide details for "Jeff Hamel" ---06/07/2012 06:11:53 PM---Hi Kim,"Jeff Hamel" ---06/07/2012 06:11:53 PM---Hi Kim,

From: "Jeff Hamel" <jhamel@woodardcurran.com>
To: Kimberly Tisa/R1/USEPA/US@EPA
Date: 06/07/2012 06:11 PM
Subject: Harvard Pound Hall Modification Request

_____

Hi Kim,

As a follow-up to our conversation on Monday June 4, 2012 and on behalf of the President and Fellows of Harvard College, please find attached a modification request in accordance with Condition 14 of the EPA's January 26, 2012 PCB Cleanup and Disposal Approval for the Pound Hall Partial Demolition Project in Cambridge, Massachusetts.
This modification request has been prepared to document a differing condition than that described in the Notification, which was encountered during the performance of the work within the basement of the Pound Hall demolition area.

The attached also incorporates the additional sample data requested (painted foundation walls and ceiling) during our call on Monday.

As we discussed, structural building demolition is starting next week with planned removal of the basement materials in question at the end of the month.

If you have any questions or require additional information, please call or e-mail.

Thanks

Jeff

[attachment "2012.06.07 Modification Request Basement Conditions.pdf" deleted by Kimberly Tisa/R1/USEPA/US]

APPENDIX B: LABORATORY ANALYTICAL REPORTS

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

February 7, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0161

Enclosed are results of analyses for samples received by the laboratory on February 3, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 2/7/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0161

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

PROJECT LOCATION: Harvard Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBB-222	12B0161-01	Brick		SW-846 8082A	
PH-VBC-223	12B0161-02	Concrete		SW-846 8082A	

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

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0161

Date Received: 2/3/2012

Field Sample #: PH-VBB-222 | Sampled: 2/3/2012 11:25

Sample ID: 12B0161-01

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:34	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:34	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:34	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:34	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:34	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:34	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:34	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:34	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:34	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.7	30-150		2/7/12 14:34
Decachlorobiphenyl [2]	117	30-150		2/7/12 14:34
Tetrachloro-m-xylene [1]	84.8	30-150		2/7/12 14:34
Tetrachloro-m-xylene [2]	98.4	30-150		2/7/12 14:34

con-test® ANALYTICAL LABORATORY

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

Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0161

Date Received: 2/3/2012

Field Sample #: PH-VBC-223 | Sampled: 2/3/2012 11:40

Sample ID: 12B0161-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:46	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:46	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:46	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:46	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:46	MJC
Aroclor-1254 [1]	0.72	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:46	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:46	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:46	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 14:46	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.2	30-150		2/7/12 14:46
Decachlorobiphenyl [2]	108	30-150		2/7/12 14:46
Tetrachloro-m-xylene [1]	84.3	30-150		2/7/12 14:46
Tetrachloro-m-xylene [2]	97.5	30-150		2/7/12 14:46

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0161-01 [PH-VBB-222]	B045600	2.00	10.0	02/03/12
12B0161-02 [PH-VBC-223]	B045600	2.00	10.0	02/03/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B045600 - SW-846 3540C										
Blank (B045600-BLK1)				Prepared: 02/03/12 Analyzed: 02/07/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.901*		mg/Kg	1.00		90.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.890*		mg/Kg	1.00		89.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			
LCS (B045600-BS1)				Prepared: 02/03/12 Analyzed: 02/07/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250		100	40-140			
Aroclor-1016 [2C]	0.31	0.10	mg/Kg	0.250		126	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101	40-140			
Aroclor-1260 [2C]	0.31	0.10	mg/Kg	0.250		122	40-140			
Surrogate: Decachlorobiphenyl	*0.996*		mg/Kg	1.00		99.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.19*		mg/Kg	1.00		119	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.20*		mg/Kg	1.00		120	30-150			
LCS Dup (B045600-BSD1)				Prepared: 02/03/12 Analyzed: 02/07/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250		95.7	40-140	4.77	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140	8.13	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.7	40-140	4.19	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		117	40-140	3.95	30	
Surrogate: Decachlorobiphenyl	*0.941*		mg/Kg	1.00		94.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.932*		mg/Kg	1.00		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		mg/Kg	1.00		109	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B045600 - SW-846 3540C										
Matrix Spike (B045600-MS1)		**Source: 12B0161-01**		Prepared: 02/03/12 Analyzed: 02/07/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250	0.0	94.3	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250	0.0	122	40-140			
Aroclor-1260	0.29	0.10	mg/Kg	0.250	0.0	114	40-140			
Aroclor-1260 [2C]	0.33	0.10	mg/Kg	0.250	0.0	132	40-140			
Surrogate: Decachlorobiphenyl	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Tetrachloro-m-xylene	*0.933*		mg/Kg	1.00		93.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.08*		mg/Kg	1.00		108	30-150			
Matrix Spike Dup (B045600-MSD1)		**Source: 12B0161-01**		Prepared: 02/03/12 Analyzed: 02/07/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250	0.0	94.4	40-140	0.134	50	
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250	0.0	132	40-140	7.99	50	
Aroclor-1260	0.27	0.10	mg/Kg	0.250	0.0	108	40-140	5.56	50	
Aroclor-1260 [2C]	0.31	0.10	mg/Kg	0.250	0.0	125	40-140	5.09	50	
Surrogate: Decachlorobiphenyl	*0.966*		mg/Kg	1.00		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Tetrachloro-m-xylene	*0.921*		mg/Kg	1.00		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12B0161

Company Name: Woodard + Curran
Address: 35 N.E. Bus. Ctr
Andover, Mass
Attention: J Hamel, Amy Wallace,
Project Location: Harvard - Pound Hall
Sampled By: K. Rinard (413) 531-4455

Telephone:
Project # 22386B
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 2011 1211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 by 3540C	# of Containers	** Preservation	***Container Code
-01	PH-VBB-222	2/3/12	1125			Brine (U)		✓			10
-02	PH-VBC-223	↓	1140			Concrete (U)		✓			10
		2/3/12									

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: EPA 8082 PCB's via 3540C Soxhlet
48-Hr Rush per Amy Wallace - Samples from Western Demo wall

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 2/3/12 1830
Received by: (signature) 6.0°C	Date/Time: 2/3/12 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: ≤ 1 mg/Kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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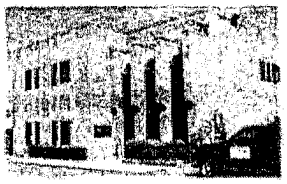

Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** CEC **DATE:** 2/2/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 6.0°

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

12B0161-01 PH-VBB-222

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.848	0.984465	14.9
Decachlorobiphenyl	0.917	1.16525	23.8

12B0161-02 PH-VBC-223

Analyte	Results		%RPD
Aroclor-1254	0.72	0.646415	10.8
Surrogates			
Decachlorobiphenyl	0.912	1.08162	17
Tetrachloro-m-xylene	0.843	0.97474	14.5

B045600-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.901	1.066795	16.9
Tetrachloro-m-xylene	0.890	1.028785	14.5

B045600-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.25	0.314265	22.8
Aroclor-1260	0.25	0.30552	20
Surrogates			
Tetrachloro-m-xylene	1.01	1.19877	17.1
Decachlorobiphenyl	0.996	1.193775	18.1

B045600-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1260	0.24	0.29368	20.1
Aroclor-1016	0.24	0.289725	18.8
Surrogates			
Decachlorobiphenyl	0.941	1.120745	17.4
Tetrachloro-m-xylene	0.932	1.088875	15.5

B045600-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.24	0.3048	23.8
Aroclor-1260	0.29	0.32958	12.8
Surrogates			
Decachlorobiphenyl	0.956	1.131725	16.8
Tetrachloro-m-xylene	0.933	1.085	15.1

B045600-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.24	0.330155	31.6
Aroclor-1260	0.27	0.313235	14.8
Surrogates			
Tetrachloro-m-xylene	0.921	1.068435	14.8
Decachlorobiphenyl	0.966	1.128345	15.5

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0161
Project Location: Harvard Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0161-01 thru 12B0161-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 02/07/12

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February 10, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0162

Enclosed are results of analyses for samples received by the laboratory on February 3, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 2/10/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0162

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

PROJECT LOCATION: Harvard Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-224	12B0162-01	Concrete		SW-846 8082A	
PH-VBB-225	12B0162-02	Brick		SW-846 8082A	
PH-VBB-226	12B0162-03	Brick		SW-846 8082A	
PH-VBB-227	12B0162-04	Brick		SW-846 8082A	
PH-VBC-228	12B0162-05	Concrete		SW-846 8082A	
PH-VBB-229	12B0162-06	Brick		SW-846 8082A	
PH-VBC-230	12B0162-07	Concrete		SW-846 8082A	
PH-VBC-231	12B0162-08	Concrete		SW-846 8082A	
PH-VBB-232	12B0162-09	Brick		SW-846 8082A	
PH-VBBD-233	12B0162-10	Brick		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harvard Pound Hall
Sample Description:
Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBC-224
Sampled: 2/3/2012 14:00

Sample ID: 12B0162-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:24	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:24	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:24	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:24	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:24	MJC
Aroclor-1254 [2]	0.14	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:24	MJC
Aroclor-1260 [2]	0.18	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:24	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:24	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:24	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.1	30-150		2/7/12 18:24
Decachlorobiphenyl [2]	111	30-150		2/7/12 18:24
Tetrachloro-m-xylene [1]	86.5	30-150		2/7/12 18:24
Tetrachloro-m-xylene [2]	99.3	30-150		2/7/12 18:24

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

Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBB-225 | Sampled: 2/2/2012 14:30

Sample ID: 12B0162-02

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:37	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:37	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:37	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:37	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:37	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:37	MJC
Aroclor-1260 [2]	0.20	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:37	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:37	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:37	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		2/7/12 18:37
Decachlorobiphenyl [2]	117	30-150		2/7/12 18:37
Tetrachloro-m-xylene [1]	94.6	30-150		2/7/12 18:37
Tetrachloro-m-xylene [2]	109	30-150		2/7/12 18:37

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Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBB-226 | Sampled: 2/2/2012 10:20

Sample ID: 12B0162-03

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:49	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:49	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:49	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:49	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:49	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:49	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:49	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:49	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 18:49	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.9	30-150		2/7/12 18:49
Decachlorobiphenyl [2]	108	30-150		2/7/12 18:49
Tetrachloro-m-xylene [1]	86.4	30-150		2/7/12 18:49
Tetrachloro-m-xylene [2]	99.5	30-150		2/7/12 18:49

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Project Location: Harvard Pound Hall
Sample Description:
Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBB-227
Sampled: 2/2/2012 15:30

Sample ID: 12B0162-04

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:02	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:02	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:02	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:02	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:02	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:02	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:02	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:02	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:02	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.3	30-150		2/7/12 19:02
Decachlorobiphenyl [2]	108	30-150		2/7/12 19:02
Tetrachloro-m-xylene [1]	85.0	30-150		2/7/12 19:02
Tetrachloro-m-xylene [2]	97.2	30-150		2/7/12 19:02

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Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBC-228 | Sampled: 2/3/2012 09:50

Sample ID: 12B0162-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:15	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:15	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:15	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:15	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:15	MJC
Aroclor-1254 [2]	0.64	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:15	MJC
Aroclor-1260 [1]	0.54	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:15	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:15	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:15	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.8	30-150		2/7/12 19:15
Decachlorobiphenyl [2]	112	30-150		2/7/12 19:15
Tetrachloro-m-xylene [1]	87.4	30-150		2/7/12 19:15
Tetrachloro-m-xylene [2]	101	30-150		2/7/12 19:15

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

Project Location: Harvard Pound Hall
Sample Description:
Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBB-229
Sampled: 2/2/2012 10:35

Sample ID: 12B0162-06

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:28	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:28	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:28	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:28	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:28	MJC
Aroclor-1254 [2]	0.13	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:28	MJC
Aroclor-1260 [2]	0.18	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:28	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:28	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:28	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		2/7/12 19:28
Decachlorobiphenyl [2]	120	30-150		2/7/12 19:28
Tetrachloro-m-xylene [1]	99.2	30-150		2/7/12 19:28
Tetrachloro-m-xylene [2]	114	30-150		2/7/12 19:28

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Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBC-230 | Sampled: 2/3/2012 10:25

Sample ID: 12B0162-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:40	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:40	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:40	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:40	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:40	MJC
Aroclor-1254 [2]	0.87	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:40	MJC
Aroclor-1260 [2]	0.77	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:40	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:40	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:40	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.0	30-150		2/7/12 19:40
Decachlorobiphenyl [2]	104	30-150		2/7/12 19:40
Tetrachloro-m-xylene [1]	81.5	30-150		2/7/12 19:40
Tetrachloro-m-xylene [2]	93.2	30-150		2/7/12 19:40

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Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBC-231 | Sampled: 2/3/2012 11:05

Sample ID: 12B0162-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:53	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:53	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:53	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:53	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:53	MJC
Aroclor-1254 [1]	0.53	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:53	MJC
Aroclor-1260 [2]	0.30	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:53	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:53	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 19:53	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.9	30-150		2/7/12 19:53
Decachlorobiphenyl [2]	97.8	30-150		2/7/12 19:53
Tetrachloro-m-xylene [1]	77.4	30-150		2/7/12 19:53
Tetrachloro-m-xylene [2]	87.7	30-150		2/7/12 19:53

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Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBB-232 | Sampled: 2/3/2012 11:05

Sample ID: 12B0162-09

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:06	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:06	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:06	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:06	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:06	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:06	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:06	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:06	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:06	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.3	30-150		2/7/12 20:06
Decachlorobiphenyl [2]	109	30-150		2/7/12 20:06
Tetrachloro-m-xylene [1]	84.4	30-150		2/7/12 20:06
Tetrachloro-m-xylene [2]	96.5	30-150		2/7/12 20:06

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Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0162

Date Received: 2/3/2012

Field Sample #: PH-VBBD-233 | Sampled: 2/3/2012 11:06

Sample ID: 12B0162-10

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:19	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:19	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:19	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:19	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:19	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:19	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:19	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:19	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/3/12	2/7/12 20:19	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.1	30-150		2/7/12 20:19
Decachlorobiphenyl [2]	110	30-150		2/7/12 20:19
Tetrachloro-m-xylene [1]	84.1	30-150		2/7/12 20:19
Tetrachloro-m-xylene [2]	96.2	30-150		2/7/12 20:19

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0162-01 [PH-VBC-224]	B045600	2.00	10.0	02/03/12
12B0162-02 [PH-VBB-225]	B045600	2.00	10.0	02/03/12
12B0162-03 [PH-VBB-226]	B045600	2.00	10.0	02/03/12
12B0162-04 [PH-VBB-227]	B045600	2.10	10.0	02/03/12
12B0162-05 [PH-VBC-228]	B045600	2.20	10.0	02/03/12
12B0162-06 [PH-VBB-229]	B045600	2.20	10.0	02/03/12
12B0162-07 [PH-VBC-230]	B045600	2.00	10.0	02/03/12
12B0162-08 [PH-VBC-231]	B045600	2.00	10.0	02/03/12
12B0162-09 [PH-VBB-232]	B045600	2.00	10.0	02/03/12
12B0162-10 [PH-VBBD-233]	B045600	2.00	10.0	02/03/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B045600 - SW-846 3540C										
Blank (B045600-BLK1)				Prepared: 02/03/12 Analyzed: 02/07/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.901*		mg/Kg	1.00		90.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.890*		mg/Kg	1.00		89.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			
LCS (B045600-BS1)				Prepared: 02/03/12 Analyzed: 02/07/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250		100	40-140			
Aroclor-1016 [2C]	0.31	0.10	mg/Kg	0.250		126	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101	40-140			
Aroclor-1260 [2C]	0.31	0.10	mg/Kg	0.250		122	40-140			
Surrogate: Decachlorobiphenyl	*0.996*		mg/Kg	1.00		99.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.19*		mg/Kg	1.00		119	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.20*		mg/Kg	1.00		120	30-150			
LCS Dup (B045600-BSD1)				Prepared: 02/03/12 Analyzed: 02/07/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250		95.7	40-140	4.77	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140	8.13	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.7	40-140	4.19	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		117	40-140	3.95	30	
Surrogate: Decachlorobiphenyl	*0.941*		mg/Kg	1.00		94.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.932*		mg/Kg	1.00		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		mg/Kg	1.00		109	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2012
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12B0162

Company Name: Woodard + Curran
Address: 35 N.E Bus Ctr Ctr
Andover, MA
Attention: J Hamel, A Wallace,
Project Location: Harvard - Pound Hall
Sampled By: K. Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax# jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 2011 1211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 via 3540 C										# of Containers
								1										** Preservation
								I										***Container Code
								G										
-01	PH-VBC-224	2/3/12	1400			C	U	✓										1
-02	PH-VBB-225	2/2/12	1430			B	U	✓										3
-03	PH-VBB-226	2/2/12	1020			B	U	✓										4
-04	PH-VBB-227	2/2/12	1530			B	U	✓										5
-05	PH-VBC-228	2/3/12	0950			C	U	✓										5
-06	PH-VBB-229	2/2/12	1035			B	U	✓										7
-07	PH-VBC-230	2/3/12	1025			C	U	✓										8
-08	PH-VBC-231	2/3/12	1105			C	U	✓										9
-09	PH-VBB-232	2/2/12	1105			B	U	✓										13
-10	PH-VBBD-233	2/2/12	1105			B	U	✓										

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: EPA 8082 - PCBs via 3540C Soxhlet
B=Brick, C=Concrete

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	2/3/12 1830
Received by: (signature) 6.0°C	Date/Time: 2/3/12 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☑ Other 5 DAY

RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: 1 mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: CEC DATE: 2/3/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 6.0°

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	10
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0162
Project Location: Harvard Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0162-01 thru 12B0162-10

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes ☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes ☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes ☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 02/10/12

12B0161-01 PH-VBB-222

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.848	0.984465	14.9
Decachlorobiphenyl	0.917	1.16525	23.8

12B0162-01 PH-VBC-224

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.14	0.128815	8.32
Aroclor-1260 [2C]	0.18	0.14939	18.6
Surrogates			
Decachlorobiphenyl	0.941	1.11482	16.9
Tetrachloro-m-xylene	0.865	0.993295	13.8

12B0162-02 PH-VBB-225

Analyte	Results		%RPD
Aroclor-1260 [2C]	0.20	0.17701	12.2
Surrogates			
Decachlorobiphenyl	1.03	1.170345	12.8
Tetrachloro-m-xylene	0.946	1.0934	14.5

12B0162-03 PH-VBB-226

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.939	1.07518	13.5
Tetrachloro-m-xylene	0.864	0.99504	14.1

12B0162-04 PH-VBB-227

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.888	1.026652	14.5
Tetrachloro-m-xylene	0.809	0.9255286	13.4

12B0162-05 PH-VBC-228

Analyte	Results		%RPD
Aroclor-1260	0.54	0.5172591	4.3
Aroclor-1254 [2C]	0.64	0.6163818	3.76
Surrogates			
Decachlorobiphenyl	0.871	1.016854	15.5
Tetrachloro-m-xylene	0.794	0.9177818	14.5

12B0162-06 PH-VBB-229

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.13	0.1121818	14.7
Aroclor-1260 [2C]	0.18	0.1532909	16
Surrogates			
Decachlorobiphenyl	0.923	1.086905	16.3
Tetrachloro-m-xylene	0.901	1.04015	14.3

12B0162-07 PH-VBC-230

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.87	0.809375	7.22
Aroclor-1260 [2C]	0.77	0.721555	6.5
Surrogates			
Tetrachloro-m-xylene	0.815	0.932495	13.4
Decachlorobiphenyl	0.890	1.042195	15.8

12B0162-08 PH-VBC-231

Analyte	Results		%RPD
Aroclor-1254	0.53	0.471865	11.6
Aroclor-1260 [2C]	0.30	0.26062	14
Surrogates			

Decachlorobiphenyl	0.839	0.97762	15.3
Tetrachloro-m-xylene	0.774	0.87733	12.5

12B0162-09 PH-VBB-232

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.903	1.085735	18.4
Tetrachloro-m-xylene	0.844	0.96488	13.4

12B0162-10 PH-VBBD-233

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.921	1.104295	18.1
Tetrachloro-m-xylene	0.841	0.96176	13.4

B045600-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.901	1.066795	16.9
Tetrachloro-m-xylene	0.890	1.028785	14.5

B045600-BS1 LCS

Analyte	Results		%RPD
Aroclor-1260	0.25	0.30552	20
Aroclor-1016	0.25	0.314265	22.8
Surrogates			
Decachlorobiphenyl	0.996	1.193775	18.1
Tetrachloro-m-xylene	1.01	1.19877	17.1

B045600-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1260	0.24	0.29368	20.1
Aroclor-1016	0.24	0.289725	18.8
Surrogates			
Decachlorobiphenyl	0.941	1.120745	17.4
Tetrachloro-m-xylene	0.932	1.088875	15.5

B045600-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.24	0.3048	23.8
Aroclor-1260	0.29	0.32958	12.8
Surrogates			
Decachlorobiphenyl	0.956	1.131725	16.8
Tetrachloro-m-xylene	0.933	1.085	15.1

B045600-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.24	0.330155	31.6
Aroclor-1260	0.27	0.313235	14.8
Surrogates			
Tetrachloro-m-xylene	0.921	1.068435	14.8
Decachlorobiphenyl	0.966	1.128345	15.5

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February 15, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0281

Enclosed are results of analyses for samples received by the laboratory on February 8, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 2/15/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0281

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

PROJECT LOCATION: Harvard Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBB-235	12B0281-01	Brick		SW-846 8082A	
PH-VBC-236	12B0281-02	Concrete		SW-846 8082A	
PH-VBB-237	12B0281-03	Brick		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harvard Pound Hall
Sample Description:
Work Order: 12B0281

Date Received: 2/8/2012

Field Sample #: PH-VBB-235
Sampled: 2/7/2012 13:45

Sample ID: 12B0281-01

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 16:53	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 16:53	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 16:53	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 16:53	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 16:53	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 16:53	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 16:53	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 16:53	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 16:53	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.1	30-150		2/13/12 16:53
Decachlorobiphenyl [2]	83.8	30-150		2/13/12 16:53
Tetrachloro-m-xylene [1]	113	30-150		2/13/12 16:53
Tetrachloro-m-xylene [2]	103	30-150		2/13/12 16:53

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Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0281

Date Received: 2/8/2012

Field Sample #: PH-VBC-236 | Sampled: 2/7/2012 14:45

Sample ID: 12B0281-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	2/8/12	2/14/12 12:12	MJC
Aroclor-1221 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	2/8/12	2/14/12 12:12	MJC
Aroclor-1232 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	2/8/12	2/14/12 12:12	MJC
Aroclor-1242 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	2/8/12	2/14/12 12:12	MJC
Aroclor-1248 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	2/8/12	2/14/12 12:12	MJC
Aroclor-1254 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	2/8/12	2/14/12 12:12	MJC
Aroclor-1260 [1]	1.7	0.20	mg/Kg	2		SW-846 8082A	2/8/12	2/14/12 12:12	MJC
Aroclor-1262 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	2/8/12	2/14/12 12:12	MJC
Aroclor-1268 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	2/8/12	2/14/12 12:12	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		2/14/12 12:12
Decachlorobiphenyl [2]	86.3	30-150		2/14/12 12:12
Tetrachloro-m-xylene [1]	103	30-150		2/14/12 12:12
Tetrachloro-m-xylene [2]	96.6	30-150		2/14/12 12:12

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Project Location: Harvard Pound Hall | Sample Description: | Work Order: 12B0281

Date Received: 2/8/2012

Field Sample #: PH-VBB-237 | Sampled: 2/7/2012 15:10

Sample ID: 12B0281-03

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 17:18	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 17:18	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 17:18	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 17:18	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 17:18	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 17:18	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 17:18	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 17:18	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/8/12	2/13/12 17:18	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		2/13/12 17:18
Decachlorobiphenyl [2]	87.1	30-150		2/13/12 17:18
Tetrachloro-m-xylene [1]	115	30-150		2/13/12 17:18
Tetrachloro-m-xylene [2]	104	30-150		2/13/12 17:18

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0281-01 [PH-VBB-235]	B045859	2.00	10.0	02/08/12
12B0281-02 [PH-VBC-236]	B045859	2.00	10.0	02/08/12
12B0281-03 [PH-VBB-237]	B045859	2.00	10.0	02/08/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B045859 - SW-846 3540C										
Blank (B045859-BLK1)				Prepared: 02/08/12 Analyzed: 02/13/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.963*		mg/Kg	1.00		96.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.08*		mg/Kg	1.00		108	30-150			
LCS (B045859-BS1)				Prepared: 02/08/12 Analyzed: 02/13/12						
Aroclor-1016	0.30	0.10	mg/Kg	0.250		119	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		106	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140			
Surrogate: Decachlorobiphenyl	*1.15*		mg/Kg	1.00		115	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		mg/Kg	1.00		109	30-150			
LCS Dup (B045859-BSD1)				Prepared: 02/08/12 Analyzed: 02/13/12						
Aroclor-1016	0.33	0.10	mg/Kg	0.250		132	40-140	10.8	30	
Aroclor-1016 [2C]	0.31	0.10	mg/Kg	0.250		126	40-140	11.7	30	
Aroclor-1260	0.28	0.10	mg/Kg	0.250		112	40-140	5.39	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140	5.68	30	
Surrogate: Decachlorobiphenyl	*1.23*		mg/Kg	1.00		123	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.28*		mg/Kg	1.00		128	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.19*		mg/Kg	1.00		119	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B045859 - SW-846 3540C										
Matrix Spike (B045859-MS1)		**Source: 12B0281-01**		Prepared: 02/08/12 Analyzed: 02/13/12						
Aroclor-1016	0.30	0.10	mg/Kg	0.250	0.0	120	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250	0.0	120	40-140			
Aroclor-1260	0.34	0.10	mg/Kg	0.250	0.0	137	40-140			
Aroclor-1260 [2C]	0.34	0.10	mg/Kg	0.250	0.0	135	40-140			
Surrogate: Decachlorobiphenyl	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.892*		mg/Kg	1.00		89.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.18*		mg/Kg	1.00		118	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			
Matrix Spike Dup (B045859-MSD1)		**Source: 12B0281-01**		Prepared: 02/08/12 Analyzed: 02/13/12						
Aroclor-1016	0.30	0.10	mg/Kg	0.250	0.0	119	40-140	1.05	50	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250	0.0	117	40-140	2.43	50	
Aroclor-1260	0.32	0.10	mg/Kg	0.250	0.0	130	40-140	5.95	50	
Aroclor-1260 [2C]	0.32	0.10	mg/Kg	0.250	0.0	127	40-140	6.17	50	
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.883*		mg/Kg	1.00		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

CHAIN OF CUSTODY RECORD

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Page 1 of 1

12B0281

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J. Hamel A. Wallace
Project Location: Harvard Pound Hill
Sampled By: Kim Rimmel (413) 531-4455

Project Proposal Provided? (for billing purposes)
✓ yes 2011 1211 proposal date

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 / 3540C									# of Containers	** Preservation	***Container Code
01	PH-VBB-235	2/7/12	1345			B	U	✓									15	I	G
02	PH-VBC-236	↓	1445			C	U	✓									35	I	G
03	PH-VBB-237	✓	1510			B	U	✓									38	I	G

2/8/12 KAL

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: All samples by EPA 8082 PCB's via 3540C Soxhlet Ext. R.L ≤ 1 mg/kg Matrix Code - (B)= Brick (C)= Concrete

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
(K Rimmel)	2/8/12 1215
Received by: (signature)	Date/Time: 1215 2-8-12
Relinquished by: (signature)	Date/Time: 1845 2-8-12
Received by: (signature) 2.0a	Date/Time: 2/8/12 18:45

Turnaround ††
☐ 7-Day
☐ 10-Day
☑ Other 5 B.D
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

nelac AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 2/8/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.0°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes (No)

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/(clear) jar	3
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0281
Project Location: Harvard Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0281-01 thru 12B0281-03

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes ☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes ☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes ☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 02/15/12

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February 16, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0478

Enclosed are results of analyses for samples received by the laboratory on February 14, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 2/16/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0478

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBA-238	12B0478-01	Soil		SM 2540G	
				SW-846 8082A	
PH-VBA-239	12B0478-02	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

A five times dilution was perfomed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

12B0478-01[PH-VBA-238], 12B0478-02[PH-VBA-239]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0478

Date Received: 2/14/2012

Field Sample #: PH-VBA-238 | Sampled: 2/14/2012 11:40

Sample ID: 12B0478-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:37	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:37	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:37	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:37	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:37	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:37	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:37	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:37	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:37	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	64.3	30-150		2/16/12 1:37
Decachlorobiphenyl [2]	69.1	30-150		2/16/12 1:37
Tetrachloro-m-xylene [1]	74.1	30-150		2/16/12 1:37
Tetrachloro-m-xylene [2]	73.5	30-150		2/16/12 1:37

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0478

Date Received: 2/14/2012

Field Sample #: PH-VBA-238
Sampled: 2/14/2012 11:40

Sample ID: 12B0478-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.8		% Wt	1		SM 2540G	2/14/12	2/15/12 12:57	WAL

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0478

Date Received: 2/14/2012

Field Sample #: PH-VBA-239 | Sampled: 2/14/2012 11:45

Sample ID: 12B0478-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:50	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:50	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:50	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:50	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:50	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:50	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:50	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:50	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/14/12	2/16/12 1:50	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.6	30-150		2/16/12 1:50
Decachlorobiphenyl [2]	106	30-150		2/16/12 1:50
Tetrachloro-m-xylene [1]	114	30-150		2/16/12 1:50
Tetrachloro-m-xylene [2]	110	30-150		2/16/12 1:50

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0478

Date Received: 2/14/2012

Field Sample #: PH-VBA-239
Sampled: 2/14/2012 11:45

Sample ID: 12B0478-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.8		% Wt	1		SM 2540G	2/14/12	2/15/12 12:57	WAL

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12B0478-01 [PH-VBA-238]	B046202	02/14/12
12B0478-02 [PH-VBA-239]	B046202	02/14/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0478-01 [PH-VBA-238]	B046178	10.0	10.0	02/14/12
12B0478-02 [PH-VBA-239]	B046178	10.0	10.0	02/14/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B046178 - SW-846 3540C										
Blank (B046178-BLK1)				Prepared: 02/14/12 Analyzed: 02/16/12						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.198*		mg/Kg wet	0.200		99.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.199*		mg/Kg wet	0.200		99.5	30-150			
LCS (B046178-BS1)				Prepared: 02/14/12 Analyzed: 02/16/12						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		109	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		117	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		105	40-140			
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140			
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.200*		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.223*		mg/Kg wet	0.200		111	30-150			
LCS Dup (B046178-BSD1)				Prepared: 02/14/12 Analyzed: 02/16/12						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		110	40-140	1.35	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		117	40-140	0.00639	30	
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		107	40-140	2.17	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140	2.21	30	
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.222*		mg/Kg wet	0.200		111	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-32	A five times dilution was perfomed as part of the standard analytical procedure.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2012
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12B0478

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Portland, ME (Please add - Thanks)
Attention: J. Hamel, A. Wallace,* K. Rinard
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard - (413) 531-4455

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax #~~ ~~jwa~~ jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 2011/2/11 proposal date

ANALYSIS REQUESTED

# of Containers	1
** Preservation	NONE
***Container Code	G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C
01	PH-VBA-238	2/14/12	1140			O	U	✓
02	PH-VBA-239	↓	1145			O	U	✓

2/14/12

VAW

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other Asphalt

Comments:
① Samples from Area A-1 ② EPA 8082 PCB's by Soxhlet 3540C
③ RL's @ ≤ 1mg/kg ④ Results for Thursday Afternoon - Please!

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
KRI (K Rinard)	2/14/12 1845
Received by: (signature)	Date/Time:
Paula Blakeley	2/14/12 1845
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL's ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
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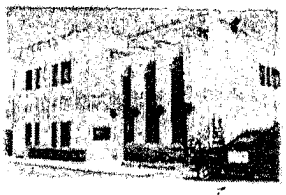

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: P.B. DATE: 2/14/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.9

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 M

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0478
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0478-01 thru 12B0478-02

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 02/16/12

12B0478-01 PH-VBA-238

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.150	0.1488765	0.752
Decachlorobiphenyl	0.130	0.1399342	7.36

12B0478-02 PH-VBA-239

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.228	0.2195591	3.77
Decachlorobiphenyl	0.194	0.2116533	8.7

B046178-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.198	0.198965	0.486
Decachlorobiphenyl	0.195	0.194435	0.29

B046178-BS1 LCS

Analyte	Results		%RPD
Aroclor-1260	0.21	0.217845	3.67
Aroclor-1016	0.22	0.23473	6.48
Surrogates			
Tetrachloro-m-xylene	0.220	0.22255	1.15
Decachlorobiphenyl	0.201	0.19989	0.554

B046178-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1260	0.21	0.222715	5.88
Aroclor-1016	0.22	0.234745	6.48
Surrogates			
Tetrachloro-m-xylene	0.220	0.22186	0.842
Decachlorobiphenyl	0.209	0.20616	1.37

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February 24, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0768

Enclosed are results of analyses for samples received by the laboratory on February 22, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 2/24/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0768

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBB-273	12B0768-01	Brick		SW-846 8082A	
PH-VBB-274	12B0768-02	Brick		SW-846 8082A	
PH-VBB-275	12B0768-03	Brick		SW-846 8082A	
PH-VBB-276	12B0768-04	Brick		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Login

Qualifications:

Samples were received directly from sampling in the field on ice.

Analyte & Samples(s) Qualified:

12B0768-01[PH-VBB-273], 12B0768-02[PH-VBB-274], 12B0768-03[PH-VBB-275], 12B0768-04[PH-VBB-276]

SW-846 8082A

Qualifications:

A five times dilution was perfomed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

12B0768-01[PH-VBB-273], 12B0768-02[PH-VBB-274], 12B0768-03[PH-VBB-275], 12B0768-04[PH-VBB-276]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0768

Date Received: 2/22/2012

Field Sample #: PH-VBB-273 | Sampled: 2/22/2012 14:25

Sample ID: 12B0768-01

Sample Matrix: Brick

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:44	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:44	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:44	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:44	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:44	MJC
Aroclor-1254 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:44	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:44	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:44	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:44	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	79.5	30-150		2/23/12 21:44
Decachlorobiphenyl [2]	132	30-150		2/23/12 21:44
Tetrachloro-m-xylene [1]	92.8	30-150		2/23/12 21:44
Tetrachloro-m-xylene [2]	106	30-150		2/23/12 21:44

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0768

Date Received: 2/22/2012

Field Sample #: PH-VBB-274 | Sampled: 2/22/2012 14:45

Sample ID: 12B0768-02

Sample Matrix: Brick

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:57	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:57	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:57	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:57	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:57	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:57	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:57	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:57	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 21:57	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	85.7	30-150		2/23/12 21:57
Decachlorobiphenyl [2]	144	30-150		2/23/12 21:57
Tetrachloro-m-xylene [1]	99.8	30-150		2/23/12 21:57
Tetrachloro-m-xylene [2]	116	30-150		2/23/12 21:57

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0768

Date Received: 2/22/2012

Field Sample #: PH-VBB-275 | Sampled: 2/22/2012 16:00

Sample ID: 12B0768-03

Sample Matrix: Brick

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:09	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:09	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:09	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:09	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:09	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:09	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:09	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:09	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:09	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.9	30-150		2/23/12 22:09
Decachlorobiphenyl [2]	139	30-150		2/23/12 22:09
Tetrachloro-m-xylene [1]	98.2	30-150		2/23/12 22:09
Tetrachloro-m-xylene [2]	114	30-150		2/23/12 22:09

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0768

Date Received: 2/22/2012

Field Sample #: PH-VBB-276 | Sampled: 2/22/2012 16:20

Sample ID: 12B0768-04

Sample Matrix: Brick

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:22	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:22	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:22	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:22	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:22	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:22	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:22	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:22	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	2/22/12	2/23/12 22:22	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	77.3	30-150		2/23/12 22:22
Decachlorobiphenyl [2]	129	30-150		2/23/12 22:22
Tetrachloro-m-xylene [1]	89.9	30-150		2/23/12 22:22
Tetrachloro-m-xylene [2]	104	30-150		2/23/12 22:22

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0768-01 [PH-VBB-273]	B046716	2.00	10.0	02/22/12
12B0768-02 [PH-VBB-274]	B046716	2.00	10.0	02/22/12
12B0768-03 [PH-VBB-275]	B046716	2.00	10.0	02/22/12
12B0768-04 [PH-VBB-276]	B046716	2.00	10.0	02/22/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B046716 - SW-846 3540C										
Blank (B046716-BLK1)				Prepared: 02/22/12 Analyzed: 02/23/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.958*		mg/Kg	1.00		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.33*		mg/Kg	1.00		133	30-150			
Surrogate: Tetrachloro-m-xylene	*0.926*		mg/Kg	1.00		92.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			
LCS (B046716-BS1)				Prepared: 02/22/12 Analyzed: 02/23/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		106	40-140			
Aroclor-1016 [2C]	0.31	0.10	mg/Kg	0.250		123	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		108	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140			
Surrogate: Decachlorobiphenyl	*0.819*		mg/Kg	1.00		81.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.37*		mg/Kg	1.00		137	30-150			
Surrogate: Tetrachloro-m-xylene	*0.971*		mg/Kg	1.00		97.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		mg/Kg	1.00		112	30-150			
LCS Dup (B046716-BSD1)				Prepared: 02/22/12 Analyzed: 02/23/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250		101	40-140	4.80	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140	6.19	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		106	40-140	2.10	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140	0.909	30	
Surrogate: Decachlorobiphenyl	*0.807*		mg/Kg	1.00		80.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.34*		mg/Kg	1.00		134	30-150			
Surrogate: Tetrachloro-m-xylene	*0.925*		mg/Kg	1.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-32	A five times dilution was perfomed as part of the standard analytical procedure.
T-06	Samples were received directly from sampling in the field on ice.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12B0768

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Portland, ME
Attention: J Hamel, A. Wallace, K. Rinard
Project Location: Harvard Univ. - Pound Hall
Sampled By: Kim Rinard

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax~~# jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 PCB's/3540C										
01	PH-VBB-273	2/22/12	1425			BRICK	UNK	✓										
02	PH-VBB-274	↓	1445			BRICK	UNK	✓										
03	PH-VBB-275	↓	1600			BRICK	UNK	✓										
04	PH-VBB-276	2/22/12	1620			BRICK	UNK	✓										

2/22/12

Comments: ① EPA 8082 PCB's by 3540C Soxhlet ② RL @ ≤1mg/kg

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	Date/Time:
KAnd (K Rinard) 14.3°C (ICED)	2/22/12 1900
Received by: (signature) 14.3°C C. Clough-Segall	2/22/12 1900
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: RL's @ ≤1mg/kg
Connecticut:
Other:

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: C.C-S. DATE: 2/22/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☑ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 19.3°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	4
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 Ma

12B0768-01 PH-VBB-273

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.928	1.06248	13.5
Decachlorobiphenyl	0.795	1.323805	49.9

12B0768-02 PH-VBB-274

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.857	1.43544	50.5
Tetrachloro-m-xylene	0.998	1.15864	14.9

12B0768-03 PH-VBB-275

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.829	1.386495	50.3
Tetrachloro-m-xylene	0.982	1.136555	14.6

12B0768-04 PH-VBB-276

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.899	1.036185	14.2
Decachlorobiphenyl	0.773	1.28983	50.1

B046716-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.926	1.073135	14.7
Decachlorobiphenyl	0.958	1.32909	32.5

B046716-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.27	0.30782	13.1
Aroclor-1260	0.27	0.279175	3.34
Surrogates			
Decachlorobiphenyl	0.819	1.369585	50.3
Tetrachloro-m-xylene	0.971	1.12455	14.7

B046716-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.25	0.28935	14.6
Aroclor-1260	0.26	0.281725	8.02
Surrogates			
Tetrachloro-m-xylene	0.925	1.067995	14.3
Decachlorobiphenyl	0.807	1.339035	49.6

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0768
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0768-01 thru 12B0768-04

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 02/24/12

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

February 27, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0814

Enclosed are results of analyses for samples received by the laboratory on February 23, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 2/27/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0814

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBS-271	12B0814-01	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-272	12B0814-02	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Due to continuing calibration non-conformance on the confirmatory detector, the lower of two results was reported.

Analyte & Samples(s) Qualified:

Aroclor-1268

12B0814-02[PH-VBS-272]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0814

Date Received: 2/23/2012

Field Sample #: PH-VBS-271 | Sampled: 2/23/2012 11:50

Sample ID: 12B0814-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:44	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:44	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:44	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:44	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:44	MJC
Aroclor-1254 [1]	0.45	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:44	MJC
Aroclor-1260 [2]	0.21	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:44	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:44	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:44	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	108	30-150		2/27/12 15:44
Decachlorobiphenyl [2]	104	30-150		2/27/12 15:44
Tetrachloro-m-xylene [1]	108	30-150		2/27/12 15:44
Tetrachloro-m-xylene [2]	108	30-150		2/27/12 15:44

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0814

Date Received: 2/23/2012

Field Sample #: PH-VBS-271
Sampled: 2/23/2012 11:50

Sample ID: 12B0814-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	2/23/12	2/24/12 11:16	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0814

Date Received: 2/23/2012

Field Sample #: PH-VBS-272 | Sampled: 2/23/2012 11:45

Sample ID: 12B0814-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:57	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:57	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:57	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:57	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:57	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:57	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:57	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/23/12	2/27/12 15:57	MJC
Aroclor-1268 [1]	0.12	0.11	mg/Kg dry	5	P-04	SW-846 8082A	2/23/12	2/27/12 15:57	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		2/27/12 15:57
Decachlorobiphenyl [2]	102	30-150		2/27/12 15:57
Tetrachloro-m-xylene [1]	103	30-150		2/27/12 15:57
Tetrachloro-m-xylene [2]	104	30-150		2/27/12 15:57

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0814

Date Received: 2/23/2012

Field Sample #: PH-VBS-272
Sampled: 2/23/2012 11:45

Sample ID: 12B0814-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	2/23/12	2/24/12 11:16	HGA

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12B0814-01 [PH-VBS-271]	B046816	02/23/12
12B0814-02 [PH-VBS-272]	B046816	02/23/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0814-01 [PH-VBS-271]	B046814	10.1	10.0	02/23/12
12B0814-02 [PH-VBS-272]	B046814	10.0	10.0	02/23/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B046814 - SW-846 3540C										
Blank (B046814-BLK1)				Prepared: 02/23/12 Analyzed: 02/27/12						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.219*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.211*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.215*		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.216*		mg/Kg wet	0.200		108	30-150			
LCS (B046814-BS1)				Prepared: 02/23/12 Analyzed: 02/27/12						
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		105	40-140			
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		111	40-140			
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.207*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg wet	0.200		104	30-150			
LCS Dup (B046814-BSD1)				Prepared: 02/23/12 Analyzed: 02/27/12						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		111	40-140	3.84	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		112	40-140	4.50	30	
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		112	40-140	6.34	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		119	40-140	6.35	30	
Surrogate: Decachlorobiphenyl	*0.222*		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.207*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg wet	0.200		104	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
P-04	Due to continuing calibration non-conformance on the confirmatory detector, the lower of two results was reported.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12B0814

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Attention: J Hamel, A Wallace, K. Rinard (4)
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard

Project Proposal Provided? (for billing purposes)
✓ yes 2011 1211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 via 3540c	ANALYSIS REQUESTED
	PH-VBS-268								270, 268, 269 not collected
	PH-VBS-269								CWM not able to finish excavation
	PH-VBS-270								equipment failure.
01	PH-VBS-271		1150			soil	UNK	✓	
02	PH-VBS-272	2/23/12	1145			soil	UNK	✓	

2/23/12

Comments: (1) EPA 8082 PCBs via 3540c Soxhlet (2) Area S-1
(3) RLs ≤ 1mg/kg (4) krinard@woodardcurran.com

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	# of Containers	** Preservation	***Container Code
01	02	I	G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	Date/Time:
(K. Rinard)	2/23/12 1845
Received by: (signature)	Date/Time:
	2/23/1845
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time.

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ✓ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: RL ≤ 1mg/kg
Connecticut:
Other:

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

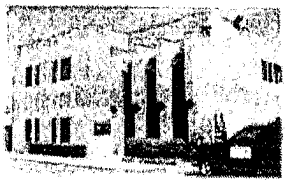
nelac AIHA
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: SD DATE: 2/23/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.6

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)	2	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 Ma

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0814
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0814-01 thru 12B0814-02

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 02/27/12

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

February 29, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0894

Enclosed are results of analyses for samples received by the laboratory on February 27, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 2/29/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0894

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBS-278	12B0894-01	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-279	12B0894-02	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-280	12B0894-03	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

A five times dilution was perfomed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

12B0894-02[PH-VBS-279], 12B0894-03[PH-VBS-280]

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

12B0894-01[PH-VBS-278], 12B0894-02[PH-VBS-279], 12B0894-03[PH-VBS-280], B046969-BLK1, B046969-BS1, B046969-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0894

Date Received: 2/27/2012

Field Sample #: PH-VBS-278 | Sampled: 2/24/2012 14:40

Sample ID: 12B0894-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:33	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:33	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:33	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:33	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:33	MJC
Aroclor-1254 [1]	0.11	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:33	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5	R-05	SW-846 8082A	2/27/12	2/28/12 19:33	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:33	MJC
Aroclor-1268 [1]	0.14	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:33	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		2/28/12 19:33
Decachlorobiphenyl [2]	95.7	30-150		2/28/12 19:33
Tetrachloro-m-xylene [1]	91.7	30-150		2/28/12 19:33
Tetrachloro-m-xylene [2]	95.6	30-150		2/28/12 19:33

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0894

Date Received: 2/27/2012

Field Sample #: PH-VBS-278
Sampled: 2/24/2012 14:40

Sample ID: 12B0894-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0894

Date Received: 2/27/2012

Field Sample #: PH-VBS-279 | Sampled: 2/24/2012 14:45

Sample ID: 12B0894-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:46	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:46	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:46	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:46	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:46	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:46	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5	R-05	SW-846 8082A	2/27/12	2/28/12 19:46	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:46	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:46	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		2/28/12 19:46
Decachlorobiphenyl [2]	96.0	30-150		2/28/12 19:46
Tetrachloro-m-xylene [1]	90.1	30-150		2/28/12 19:46
Tetrachloro-m-xylene [2]	93.8	30-150		2/28/12 19:46

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0894

Date Received: 2/27/2012

Field Sample #: PH-VBS-279
Sampled: 2/24/2012 14:45

Sample ID: 12B0894-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.2		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0894

Date Received: 2/27/2012

Field Sample #: PH-VBS-280 | Sampled: 2/24/2012 14:45

Sample ID: 12B0894-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:59	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:59	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:59	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:59	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:59	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:59	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5	R-05	SW-846 8082A	2/27/12	2/28/12 19:59	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:59	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 19:59	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	110	30-150		2/28/12 19:59
Decachlorobiphenyl [2]	101	30-150		2/28/12 19:59
Tetrachloro-m-xylene [1]	96.8	30-150		2/28/12 19:59
Tetrachloro-m-xylene [2]	100	30-150		2/28/12 19:59

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0894

Date Received: 2/27/2012

Field Sample #: PH-VBS-280 | Sampled: 2/24/2012 14:45

Sample ID: 12B0894-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.7		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12B0894-01 [PH-VBS-278]	B046970	02/27/12
12B0894-02 [PH-VBS-279]	B046970	02/27/12
12B0894-03 [PH-VBS-280]	B046970	02/27/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0894-01 [PH-VBS-278]	B046969	10.0	10.0	02/27/12
12B0894-02 [PH-VBS-279]	B046969	10.0	10.0	02/27/12
12B0894-03 [PH-VBS-280]	B046969	10.1	10.0	02/27/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B046969 - SW-846 3540C											
Blank (B046969-BLK1)				Prepared: 02/27/12 Analyzed: 02/28/12							
Aroclor-1016	ND	0.10	mg/Kg wet								
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1221	ND	0.10	mg/Kg wet								
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1232	ND	0.10	mg/Kg wet								
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1242	ND	0.10	mg/Kg wet								
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1248	ND	0.10	mg/Kg wet								
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1254	ND	0.10	mg/Kg wet								
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1260	ND	0.10	mg/Kg wet								R-05
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet								R-05
Aroclor-1262	ND	0.10	mg/Kg wet								
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1268	ND	0.10	mg/Kg wet								
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet								
Surrogate: Decachlorobiphenyl	*0.220*		mg/Kg wet	0.200		110	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150				
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg wet	0.200		97.7	30-150				
LCS (B046969-BS1)				Prepared: 02/27/12 Analyzed: 02/28/12							
Aroclor-1016	0.16	0.10	mg/Kg wet	0.200		77.7	40-140				
Aroclor-1016 [2C]	0.16	0.10	mg/Kg wet	0.200		81.8	40-140				
Aroclor-1260	0.11	0.10	mg/Kg wet	0.200		53.4	40-140				R-05
Aroclor-1260 [2C]	0.13	0.10	mg/Kg wet	0.200		63.5	40-140				R-05
Surrogate: Decachlorobiphenyl	*0.124*		mg/Kg wet	0.200		62.2	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.117*		mg/Kg wet	0.200		58.4	30-150				
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.5	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		91.9	30-150				
LCS Dup (B046969-BSD1)				Prepared: 02/27/12 Analyzed: 02/28/12							
Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		99.7	40-140	24.9		30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		104	40-140	24.4		30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		100	40-140	**60.7**	*	30	R-05
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		101	40-140	**45.4**	*	30	R-05
Surrogate: Decachlorobiphenyl	*0.221*		mg/Kg wet	0.200		111	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150				
Surrogate: Tetrachloro-m-xylene	*0.187*		mg/Kg wet	0.200		93.5	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg wet	0.200		97.3	30-150				

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B046969 - SW-846 3540C										
Matrix Spike (B046969-MS1)		**Source: 12B0894-01**		Prepared: 02/27/12 Analyzed: 02/28/12						
Aroclor-1016	0.22	0.11	mg/Kg dry	0.214	0.0	104	40-140			
Aroclor-1016 [2C]	0.23	0.11	mg/Kg dry	0.214	0.0	106	40-140			
Aroclor-1260	0.28	0.11	mg/Kg dry	0.214	0.0	129	40-140			
Aroclor-1260 [2C]	0.29	0.11	mg/Kg dry	0.214	0.0	134	40-140			
Surrogate: Decachlorobiphenyl	*0.244*		mg/Kg dry	0.214		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.227*		mg/Kg dry	0.214		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.214		95.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg dry	0.214		98.3	30-150			
Matrix Spike Dup (B046969-MSD1)		**Source: 12B0894-01**		Prepared: 02/27/12 Analyzed: 02/28/12						
Aroclor-1016	0.17	0.11	mg/Kg dry	0.214	0.0	80.0	40-140	26.3	50	
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.214	0.0	87.8	40-140	18.7	50	
Aroclor-1260	0.18	0.11	mg/Kg dry	0.214	0.0	85.1	40-140	41.0	50	
Aroclor-1260 [2C]	0.20	0.11	mg/Kg dry	0.214	0.0	92.2	40-140	36.7	50	
Surrogate: Decachlorobiphenyl	*0.149*		mg/Kg dry	0.214		69.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.139*		mg/Kg dry	0.214		64.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.191*		mg/Kg dry	0.214		89.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg dry	0.214		94.3	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-32	A five times dilution was perfomed as part of the standard analytical procedure.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12B0894

Company Name: Woodard + Curran
Address: 41 Hutching Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard (913) 531-4455

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax #~~ jhamel@woodardcurran.com
Email: Awallace@ " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 2011 1211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 by 3540C										
01	PH-VBS-278	2/24/12	1440			Soil	U	✓										
02	PH-VBS-279	↓	1445			↓	U	✓										
03	PH-VBS-280	↓	1445			↓	U	✓										

2/27/12

Comments: ① EPA 8082 PCBs via 3540C Soxhlet ② RL ≤ 1mg/kg ③ Area @ ~~S-1~~ ~~KAN~~ S-2 @ depth of 24-27"

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Kim (K Rinard) 5.9 oc	2/27/12 1835
Received by: (signature) 5.9	Date/Time:
[signature]	2/27 1835
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C-S. **DATE:** 2/27/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? **Yes** **No** **N/A**

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.9

5) Are there Dissolved samples for the lab to filter? **Yes** (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) **No**

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)	1	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May 20

12B0894-01 PH-VBS-278

Analyte		Results	%RPD
Aroclor-1268	0.14	0.1305882	6.96
Aroclor-1254	0.11	9.804278E-02	11.5
Surrogates			
Decachlorobiphenyl	0.224	0.2046952	9.01
Tetrachloro-m-xylene	0.196	0.2045401	4.26

12B0894-02 PH-VBS-279

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.218	0.1996622	8.78
Tetrachloro-m-xylene	0.187	0.1950104	4.19

12B0894-03 PH-VBS-280

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.227	0.2082363	8.62
Tetrachloro-m-xylene	0.200	0.2072276	3.55

B046969-BLK1 Blank

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.220	0.203805	7.64
Tetrachloro-m-xylene	0.185	0.19549	5.51

B046969-BS1 LCS

Analyte		Results	%RPD
Aroclor-1016	0.16	0.163585	2.22
Aroclor-1260	0.11	0.12694	14.3
Surrogates			
Tetrachloro-m-xylene	0.175	0.18371	4.86
Decachlorobiphenyl	0.124	0.116705	6.06

B046969-BSD1 LCS Dup

Analyte		Results	%RPD
Aroclor-1016	0.20	0.20899	4.4
Aroclor-1260	0.20	0.201585	0.789
Surrogates			
Decachlorobiphenyl	0.221	0.205725	7.16
Tetrachloro-m-xylene	0.187	0.194625	4

B046969-MS1 Matrix Spike

Analyte		Results	%RPD
Aroclor-1016	0.22	0.2266524	2.98
Aroclor-1260	0.28	0.2858503	2.07
Surrogates			
Decachlorobiphenyl	0.244	0.2270267	7.21
Tetrachloro-m-xylene	0.203	0.210246	3.51

B046969-MSD1 Matrix Spike Dup

Analyte		Results	%RPD
Aroclor-1016	0.17	0.1878717	9.99
Aroclor-1260	0.18	0.1972888	9.16
Surrogates			
Tetrachloro-m-xylene	0.191	0.2016685	5.43
Decachlorobiphenyl	0.149	0.1388128	7.08

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0894
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0894-01 thru 12B0894-03

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 02/29/12

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February 29, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0895

Enclosed are results of analyses for samples received by the laboratory on February 27, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 2/29/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0895

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBS-282	12B0895-01	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-283	12B0895-02	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-284	12B0895-03	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-285	12B0895-04	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-286	12B0895-05	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-287	12B0895-06	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-288	12B0895-07	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

A five times dilution was perfomed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

12B0895-03[PH-VBS-284], 12B0895-04[PH-VBS-285], 12B0895-05[PH-VBS-286], 12B0895-06[PH-VBS-287], 12B0895-07[PH-VBS-288]

Due to continuing calibration non-conformance on the confirmatory detector, the lower of two results was reported.

Analyte & Samples(s) Qualified:

Aroclor-1268

12B0895-01[PH-VBS-282], 12B0895-02[PH-VBS-283]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-282 | Sampled: 2/24/2012 15:20

Sample ID: 12B0895-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:10	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:10	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:10	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:10	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:10	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:10	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:10	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:10	MJC
Aroclor-1268 [1]	0.14	0.11	mg/Kg dry	5	P-04	SW-846 8082A	2/27/12	2/29/12 11:10	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	115	30-150		2/29/12 11:10
Decachlorobiphenyl [2]	113	30-150		2/29/12 11:10
Tetrachloro-m-xylene [1]	113	30-150		2/29/12 11:10
Tetrachloro-m-xylene [2]	114	30-150		2/29/12 11:10

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-282
Sampled: 2/24/2012 15:20

Sample ID: 12B0895-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-283 | Sampled: 2/24/2012 15:25

Sample ID: 12B0895-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:22	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:22	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:22	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:22	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:22	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:22	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:22	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:22	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5	P-04	SW-846 8082A	2/27/12	2/29/12 11:22	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	114	30-150		2/29/12 11:22
Decachlorobiphenyl [2]	113	30-150		2/29/12 11:22
Tetrachloro-m-xylene [1]	114	30-150		2/29/12 11:22
Tetrachloro-m-xylene [2]	116	30-150		2/29/12 11:22

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-283
Sampled: 2/24/2012 15:25

Sample ID: 12B0895-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-284 | Sampled: 2/24/2012 15:15

Sample ID: 12B0895-03

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:35	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:35	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:35	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:35	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:35	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:35	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:35	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:35	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	110	30-150		2/29/12 11:35
Decachlorobiphenyl [2]	111	30-150		2/29/12 11:35
Tetrachloro-m-xylene [1]	115	30-150		2/29/12 11:35
Tetrachloro-m-xylene [2]	116	30-150		2/29/12 11:35

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-284
Sampled: 2/24/2012 15:15

Sample ID: 12B0895-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.8		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-285 | Sampled: 2/24/2012 15:10

Sample ID: 12B0895-04

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:48	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:48	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:48	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:48	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:48	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:48	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:48	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:48	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 11:48	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	109	30-150		2/29/12 11:48
Decachlorobiphenyl [2]	110	30-150		2/29/12 11:48
Tetrachloro-m-xylene [1]	115	30-150		2/29/12 11:48
Tetrachloro-m-xylene [2]	116	30-150		2/29/12 11:48

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-285
Sampled: 2/24/2012 15:10

Sample ID: 12B0895-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.4		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-286 | Sampled: 2/24/2012 15:45

Sample ID: 12B0895-05

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:01	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:01	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:01	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:01	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:01	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:01	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:01	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:01	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:01	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	111	30-150		2/29/12 12:01
Decachlorobiphenyl [2]	110	30-150		2/29/12 12:01
Tetrachloro-m-xylene [1]	114	30-150		2/29/12 12:01
Tetrachloro-m-xylene [2]	116	30-150		2/29/12 12:01

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-286
Sampled: 2/24/2012 15:45

Sample ID: 12B0895-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.0		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-287 | Sampled: 2/24/2012 15:50

Sample ID: 12B0895-06

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:14	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:14	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:14	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:14	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:14	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:14	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:14	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:14	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:14	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		2/29/12 12:14
Decachlorobiphenyl [2]	104	30-150		2/29/12 12:14
Tetrachloro-m-xylene [1]	110	30-150		2/29/12 12:14
Tetrachloro-m-xylene [2]	111	30-150		2/29/12 12:14

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-287
Sampled: 2/24/2012 15:50

Sample ID: 12B0895-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.8		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-288 | Sampled: 2/24/2012 15:55

Sample ID: 12B0895-07

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:27	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:27	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:27	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:27	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:27	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:27	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:27	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:27	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/29/12 12:27	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	116	30-150		2/29/12 12:27
Decachlorobiphenyl [2]	113	30-150		2/29/12 12:27
Tetrachloro-m-xylene [1]	119	30-150		2/29/12 12:27
Tetrachloro-m-xylene [2]	121	30-150		2/29/12 12:27

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0895

Date Received: 2/27/2012

Field Sample #: PH-VBS-288
Sampled: 2/24/2012 15:55

Sample ID: 12B0895-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.5		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12B0895-01 [PH-VBS-282]	B046970	02/27/12
12B0895-02 [PH-VBS-283]	B046970	02/27/12
12B0895-03 [PH-VBS-284]	B046970	02/27/12
12B0895-04 [PH-VBS-285]	B046970	02/27/12
12B0895-05 [PH-VBS-286]	B046970	02/27/12
12B0895-06 [PH-VBS-287]	B046970	02/27/12
12B0895-07 [PH-VBS-288]	B046970	02/27/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0895-01 [PH-VBS-282]	B046967	10.0	10.0	02/27/12
12B0895-02 [PH-VBS-283]	B046967	10.0	10.0	02/27/12
12B0895-03 [PH-VBS-284]	B046967	10.1	10.0	02/27/12
12B0895-04 [PH-VBS-285]	B046967	10.1	10.0	02/27/12
12B0895-05 [PH-VBS-286]	B046967	10.0	10.0	02/27/12
12B0895-06 [PH-VBS-287]	B046967	10.0	10.0	02/27/12
12B0895-07 [PH-VBS-288]	B046967	10.0	10.0	02/27/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B046967 - SW-846 3540C										
Blank (B046967-BLK1)				Prepared: 02/27/12 Analyzed: 02/29/12						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.246*		mg/Kg wet	0.200		123	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.239*		mg/Kg wet	0.200		120	30-150			
Surrogate: Tetrachloro-m-xylene	*0.241*		mg/Kg wet	0.200		120	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.244*		mg/Kg wet	0.200		122	30-150			
LCS (B046967-BS1)				Prepared: 02/27/12 Analyzed: 02/29/12						
Aroclor-1016	0.21	0.10	mg/Kg wet	0.200		104	40-140			
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		110	40-140			
Aroclor-1260	0.22	0.10	mg/Kg wet	0.200		112	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg wet	0.200		119	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.215*		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.217*		mg/Kg wet	0.200		108	30-150			
LCS Dup (B046967-BSD1)				Prepared: 02/27/12 Analyzed: 02/29/12						
Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		102	40-140	1.33	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		109	40-140	0.917	30	
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		114	40-140	1.54	30	
Aroclor-1260 [2C]	0.23	0.10	mg/Kg wet	0.200		117	40-140	1.41	30	
Surrogate: Decachlorobiphenyl	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.211*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.214*		mg/Kg wet	0.200		107	30-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B046970 - % Solids										
Duplicate (B046970-DUP4)		**Source: 12B0895-04**		Prepared: 02/27/12 Analyzed: 02/28/12						
% Solids	94.5		% Wt		93.4			1.17	20	

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-32	A five times dilution was perfomed as part of the standard analytical procedure.
P-04	Due to continuing calibration non-conformance on the confirmatory detector, the lower of two results was reported.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

CHAIN OF CUSTODY RECORD

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Page 1 of 1

12B0895

Company Name: Woodard + Curran
Address: ~~36~~ 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J Hamel, A Wallace,
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Project Proposal Provided? (for billing purposes)
☑ yes 2011 1211 proposal date

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax# jhamel@woodard.com
Email: awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 w/ 3540C	# of Containers (1)	** Preservation (I)	***Container Code (G)
01	PH-VBS-282	2/24/12	1520			(Soil)	U	✓			
02	PH-VBS-283	↓	1525			S	U	✓			
03	PH-VBS-284	↓	1515			S	U	✓			
04	PH-VBS-285	2/24/12	1510			S	U	✓			
05	PH-VBS-286	↓	1545			S	U	✓			
06	PH-VBS-287	↓	1550			S	U	✓			
07	PH-VBS-288	2/24/12	1555			S	U	✓			
		2/27/12									

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: (1) EPA 8082 PCBs via Soxhlet 3540C (2) RL ≤ 1mg/kg
(3) Area A-1 Soils

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
(K Rinard) 5.9°	2/27/12 1835
Received by: (signature) 5.9	Date/Time: 2/27 1835
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: C.C.S. DATE: 2/27/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.9°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	1
250 mL Amber (8oz amber)	6	2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

12B0895-01 PH-VBS-282

Analyte	Results		%RPD
Aroclor-1268	0.14	0.159322	12.9
Surrogates			
Decachlorobiphenyl	0.243	0.2386599	1.8
Tetrachloro-m-xylene	0.240	0.2411494	0.478

12B0895-02 PH-VBS-283

Analyte	Results		%RPD
Aroclor-1268	0.099	0.113893	14
Surrogates			
Decachlorobiphenyl	0.241	0.2384693	1.06
Tetrachloro-m-xylene	0.242	0.2447352	1.12

12B0895-03 PH-VBS-284

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.231	0.231796	0.344
Tetrachloro-m-xylene	0.239	0.2428301	1.59

12B0895-04 PH-VBS-285

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.231	0.2322969	0.56
Tetrachloro-m-xylene	0.245	0.2459505	0.387

12B0895-05 PH-VBS-286

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.233	0.2360204	1.29
Decachlorobiphenyl	0.226	0.2241071	0.841

12B0895-06 PH-VBS-287

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.223	0.2255516	1.14
Decachlorobiphenyl	0.215	0.2111791	1.79

12B0895-07 PH-VBS-288

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.235	0.2303604	1.99
Tetrachloro-m-xylene	0.241	0.2452081	1.73

B046967-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.246	0.23933	2.75
Tetrachloro-m-xylene	0.241	0.244145	1.3

B046967-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.21	0.220315	4.79
Aroclor-1260	0.22	0.237745	7.75
Surrogates			
Decachlorobiphenyl	0.218	0.21171	2.93
Tetrachloro-m-xylene	0.215	0.216905	0.882

B046967-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.20	0.218305	8.75
Aroclor-1260	0.23	0.234415	1.9

Surrogates			
Tetrachloro-m-xylene	0.211	0.21383	1.33
Decachlorobiphenyl	0.220	0.21351	2.99

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0895
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0895-01 thru 12B0895-07

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 02/29/12

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

February 29, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0896

Enclosed are results of analyses for samples received by the laboratory on February 27, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 2/29/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0896

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBS-268	12B0896-01	Soil		SM 2540G	
				SW-846 8082A	
PH-VBS-269	12B0896-02	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

A five times dilution was perfomed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

12B0896-01[PH-VBS-268], 12B0896-02[PH-VBS-269]

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

12B0896-01[PH-VBS-268], 12B0896-02[PH-VBS-269], B046969-BLK1, B046969-BS1, B046969-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0896

Date Received: 2/27/2012

Field Sample #: PH-VBS-268 | Sampled: 2/24/2012 15:00

Sample ID: 12B0896-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:12	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:12	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:12	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:12	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:12	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:12	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5	R-05	SW-846 8082A	2/27/12	2/28/12 20:12	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:12	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:12	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	112	30-150		2/28/12 20:12
Decachlorobiphenyl [2]	103	30-150		2/28/12 20:12
Tetrachloro-m-xylene [1]	96.3	30-150		2/28/12 20:12
Tetrachloro-m-xylene [2]	99.4	30-150		2/28/12 20:12

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

Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0896

Date Received: 2/27/2012

Field Sample #: PH-VBS-268
Sampled: 2/24/2012 15:00

Sample ID: 12B0896-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.8		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0896

Date Received: 2/27/2012

Field Sample #: PH-VBS-269 | Sampled: 2/24/2012 15:05

Sample ID: 12B0896-02

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:25	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:25	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:25	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:25	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:25	MJC
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:25	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5	R-05	SW-846 8082A	2/27/12	2/28/12 20:25	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:25	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	2/27/12	2/28/12 20:25	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	111	30-150		2/28/12 20:25
Decachlorobiphenyl [2]	102	30-150		2/28/12 20:25
Tetrachloro-m-xylene [1]	93.2	30-150		2/28/12 20:25
Tetrachloro-m-xylene [2]	96.0	30-150		2/28/12 20:25

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

Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0896

Date Received: 2/27/2012

Field Sample #: PH-VBS-269
Sampled: 2/24/2012 15:05

Sample ID: 12B0896-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.2		% Wt	1		SM 2540G	2/27/12	2/28/12 9:20	HGA

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12B0896-01 [PH-VBS-268]	B046970	02/27/12
12B0896-02 [PH-VBS-269]	B046970	02/27/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0896-01 [PH-VBS-268]	B046969	10.1	10.0	02/27/12
12B0896-02 [PH-VBS-269]	B046969	10.0	10.0	02/27/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B046969 - SW-846 3540C											
Blank (B046969-BLK1)				Prepared: 02/27/12 Analyzed: 02/28/12							
Aroclor-1016	ND	0.10	mg/Kg wet								
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1221	ND	0.10	mg/Kg wet								
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1232	ND	0.10	mg/Kg wet								
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1242	ND	0.10	mg/Kg wet								
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1248	ND	0.10	mg/Kg wet								
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1254	ND	0.10	mg/Kg wet								
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1260	ND	0.10	mg/Kg wet								R-05
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet								R-05
Aroclor-1262	ND	0.10	mg/Kg wet								
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet								
Aroclor-1268	ND	0.10	mg/Kg wet								
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet								
Surrogate: Decachlorobiphenyl	*0.220*		mg/Kg wet	0.200		110	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150				
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg wet	0.200		97.7	30-150				
LCS (B046969-BS1)				Prepared: 02/27/12 Analyzed: 02/28/12							
Aroclor-1016	0.16	0.10	mg/Kg wet	0.200		77.7	40-140				
Aroclor-1016 [2C]	0.16	0.10	mg/Kg wet	0.200		81.8	40-140				
Aroclor-1260	0.11	0.10	mg/Kg wet	0.200		53.4	40-140				R-05
Aroclor-1260 [2C]	0.13	0.10	mg/Kg wet	0.200		63.5	40-140				R-05
Surrogate: Decachlorobiphenyl	*0.124*		mg/Kg wet	0.200		62.2	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.117*		mg/Kg wet	0.200		58.4	30-150				
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.5	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		91.9	30-150				
LCS Dup (B046969-BSD1)				Prepared: 02/27/12 Analyzed: 02/28/12							
Aroclor-1016	0.20	0.10	mg/Kg wet	0.200		99.7	40-140	24.9		30	
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		104	40-140	24.4		30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		100	40-140	**60.7**	*	30	R-05
Aroclor-1260 [2C]	0.20	0.10	mg/Kg wet	0.200		101	40-140	**45.4**	*	30	R-05
Surrogate: Decachlorobiphenyl	*0.221*		mg/Kg wet	0.200		111	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150				
Surrogate: Tetrachloro-m-xylene	*0.187*		mg/Kg wet	0.200		93.5	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg wet	0.200		97.3	30-150				

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-32	A five times dilution was perfomed as part of the standard analytical procedure.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
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www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12 B0896

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J. Hamel, A Wallace
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C										
01	PH-VBS-268	2/24/12	1500					✓										
02	PH-VBS-269	2/24/12	1505					✓										

2/27/12

Kn

# of Containers: 1
** Preservation: I
***Container Code: G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082 via 3540C @ ② RL ≤ 1mg/kg
③ Area S-1 @ 12-15"

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Kim (K Rinard) 5.9°C	~~2/24/12~~ 2/27/12 1835
Received by: (signature) 5.9	Date/Time: 2/27 1835
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 2/27/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.9 °C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

12B0894-01 PH-VBS-278

Analyte		Results	%RPD
Aroclor-1268	0.14	0.1305882	6.96
Aroclor-1254	0.11	9.804278E-02	11.5
Surrogates			
Decachlorobiphenyl	0.224	0.2046952	9.01
Tetrachloro-m-xylene	0.196	0.2045401	4.26

12B0896-01 PH-VBS-268

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.234	0.2156807	8.15
Tetrachloro-m-xylene	0.201	0.2076545	3.26

12B0896-02 PH-VBS-269

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.237	0.2174894	8.59
Tetrachloro-m-xylene	0.198	0.2037367	2.86

B046969-BLK1 Blank

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.220	0.203805	7.64
Tetrachloro-m-xylene	0.185	0.19549	5.51

B046969-BS1 LCS

Analyte		Results	%RPD
Aroclor-1016	0.16	0.163585	2.22
Aroclor-1260	0.11	0.12694	14.3
Surrogates			
Tetrachloro-m-xylene	0.175	0.18371	4.86
Decachlorobiphenyl	0.124	0.116705	6.06

B046969-BSD1 LCS Dup

Analyte		Results	%RPD
Aroclor-1016	0.20	0.20899	4.4
Aroclor-1260	0.20	0.201585	0.789
Surrogates			
Decachlorobiphenyl	0.221	0.205725	7.16
Tetrachloro-m-xylene	0.187	0.194625	4

B046969-MS1 Matrix Spike

Analyte		Results	%RPD
Aroclor-1016	0.22	0.2266524	2.98
Aroclor-1260	0.28	0.2858503	2.07
Surrogates			
Decachlorobiphenyl	0.244	0.2270267	7.21
Tetrachloro-m-xylene	0.203	0.210246	3.51

B046969-MSD1 Matrix Spike Dup

Analyte		Results	%RPD
Aroclor-1016	0.17	0.1878717	9.99
Aroclor-1260	0.18	0.1972888	9.16
Surrogates			
Tetrachloro-m-xylene	0.191	0.2016685	5.43
Decachlorobiphenyl	0.149	0.1388128	7.08

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0896
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0896-01 thru 12B0896-02

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 02/29/12

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

March 2, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0994

Enclosed are results of analyses for samples received by the laboratory on February 29, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/2/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0994

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBS-270	12B0994-01	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

A five times dilution was perfomed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

12B0994-01[PH-VBS-270]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12B0994

Date Received: 2/29/2012

Field Sample #: PH-VBS-270 | Sampled: 2/29/2012 14:20

Sample ID: 12B0994-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/29/12	3/1/12 17:32	MJC
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/29/12	3/1/12 17:32	MJC
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/29/12	3/1/12 17:32	MJC
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/29/12	3/1/12 17:32	MJC
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/29/12	3/1/12 17:32	MJC
Aroclor-1254 [2]	1.1	0.12	mg/Kg dry	5		SW-846 8082A	2/29/12	3/1/12 17:32	MJC
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/29/12	3/1/12 17:32	MJC
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/29/12	3/1/12 17:32	MJC
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	2/29/12	3/1/12 17:32	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.7	30-150		3/1/12 17:32
Decachlorobiphenyl [2]	89.0	30-150		3/1/12 17:32
Tetrachloro-m-xylene [1]	95.4	30-150		3/1/12 17:32
Tetrachloro-m-xylene [2]	92.7	30-150		3/1/12 17:32

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Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12B0994

Date Received: 2/29/2012

Field Sample #: PH-VBS-270
Sampled: 2/29/2012 14:20

Sample ID: 12B0994-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0		% Wt	1		SM 2540G	3/1/12	3/1/12 16:31	HGA

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12B0994-01 [PH-VBS-270]	B047140	03/01/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12B0994-01 [PH-VBS-270]	B047115	10.0	10.0	02/29/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047115 - SW-846 3540C										
Blank (B047115-BLK1)				Prepared: 02/29/12 Analyzed: 03/01/12						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg wet	0.200		98.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.226*		mg/Kg wet	0.200		113	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.220*		mg/Kg wet	0.200		110	30-150			
LCS (B047115-BS1)				Prepared: 02/29/12 Analyzed: 03/01/12						
Aroclor-1016	0.22	0.10	mg/Kg wet	0.200		110	40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		107	40-140			
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		106	40-140			
Surrogate: Decachlorobiphenyl	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.189*		mg/Kg wet	0.200		94.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.198*		mg/Kg wet	0.200		99.0	30-150			
LCS Dup (B047115-BSD1)				Prepared: 02/29/12 Analyzed: 03/01/12						
Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		115	40-140	5.12	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg wet	0.200		114	40-140	6.45	30	
Aroclor-1260	0.23	0.10	mg/Kg wet	0.200		113	40-140	5.60	30	
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		112	40-140	5.56	30	
Surrogate: Decachlorobiphenyl	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.226*		mg/Kg wet	0.200		113	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.228*		mg/Kg wet	0.200		114	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-32	A five times dilution was perfomed as part of the standard analytical procedure.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Page 1 of 1

12B0994

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard
Project Proposal Provided? (for billing purposes) ✓ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax# jhamel@woodardcurran.com
Email: awallace " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER ____
○ "Enhanced Data Package"

	ANALYSIS REQUESTED: EPA 8082/3540C										
# of Containers	1										
** Preservation	I										
***Container Code	AG										

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C
01	PH-VBS-270	2/29/12	1420			Soil	Unk	✓

2/29/12

Comments: ① EPA 8082 via 3540C ② RL ≤ 1mg/kg
③ Sample from S-1 @ ~~24-27"~~ depth (12-15" depth) 2/29/12 KAR

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

Relinquished by: (signature)	Date/Time:
Kim Rinard (K Rinard) 2.6°c	2/29/12 1755
Received by: (signature) Paula 2.6	2/29/12 1755
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL's @ ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: SD DATE: 2/29/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.6

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	1
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May 2011

12B0977-04 3-M-W-W-BOT (4-5)

Analyte	Results		%RPD
Aroclor-1248 [2C]	3.1	3.212527	3.57

12B0994-01 PH-VBS-270

Analyte	Results		%RPD
Aroclor-1254 [2C]	1.1	1.039953	5.61
Surrogates			
Decachlorobiphenyl	0.230	0.2093529	9.4
Tetrachloro-m-xylene	0.225	0.2180059	3.16

B047115-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.214	0.196765	8.39
Tetrachloro-m-xylene	0.226	0.220145	2.62

B047115-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.22	0.213075	3.2
Aroclor-1260	0.21	0.2128	1.32
Surrogates			
Tetrachloro-m-xylene	0.204	0.19793	3.02
Decachlorobiphenyl	0.206	0.18945	8.37

B047115-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1260	0.23	0.22498	2.21
Aroclor-1016	0.23	0.227285	1.19
Surrogates			
Decachlorobiphenyl	0.220	0.19919	9.93
Tetrachloro-m-xylene	0.226	0.227595	0.703

B047115-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	1.2	1.277838	6.28
Aroclor-1260	0.46	0.4078595	12
Surrogates			
Decachlorobiphenyl	0.234	0.2313017	1.16
Tetrachloro-m-xylene	0.243	0.2357516	3.03

B047115-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	1.3	1.345812	3.46
Aroclor-1260	0.43	0.3750762	13.6
Surrogates			
Tetrachloro-m-xylene	0.220	0.2118028	3.8
Decachlorobiphenyl	0.199	0.2014216	1.21

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0994
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0994-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/02/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 2, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12B0995

Enclosed are results of analyses for samples received by the laboratory on February 29, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/2/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12B0995

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBQ-240	12B0995-01	Water	Drill bit for brick	SW-846 8082A	
PH-VBQ-260	12B0995-02	Water	Trowel for soil	SW-846 8082A	
PH-VBQ-281	12B0995-03	Water	Trowel for soil	SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Harvard Univ. Pound Hall | Sample Description: Drill bit for brick | Work Order: 12B0995

Date Received: 2/29/2012

Field Sample #: PH-VBQ-240 | Sampled: 2/29/2012 18:30

Sample ID: 12B0995-01

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:19	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:19	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:19	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:19	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:19	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:19	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:19	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:19	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:19	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.2	30-150		3/1/12 15:19
Decachlorobiphenyl [2]	86.9	30-150		3/1/12 15:19
Tetrachloro-m-xylene [1]	91.3	30-150		3/1/12 15:19
Tetrachloro-m-xylene [2]	96.5	30-150		3/1/12 15:19

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Project Location: Harvard Univ. Pound Hall | Sample Description: Trowel for soil | Work Order: 12B0995

Date Received: 2/29/2012

Field Sample #: PH-VBQ-260 | Sampled: 2/29/2012 18:40

Sample ID: 12B0995-02

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:34	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:34	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:34	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:34	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:34	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:34	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:34	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:34	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:34	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	72.6	30-150		3/1/12 15:34
Decachlorobiphenyl [2]	66.8	30-150		3/1/12 15:34
Tetrachloro-m-xylene [1]	89.3	30-150		3/1/12 15:34
Tetrachloro-m-xylene [2]	95.0	30-150		3/1/12 15:34

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

Project Location: Harvard Univ. Pound Hall | Sample Description: Trowel for soil | Work Order: 12B0995

Date Received: 2/29/2012

Field Sample #: PH-VBQ-281 | Sampled: 2/29/2012 18:50

Sample ID: 12B0995-03

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:49	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:49	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:49	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:49	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:49	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:49	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:49	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:49	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	2/29/12	3/1/12 15:49	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.0	30-150		3/1/12 15:49
Decachlorobiphenyl [2]	80.1	30-150		3/1/12 15:49
Tetrachloro-m-xylene [1]	84.0	30-150		3/1/12 15:49
Tetrachloro-m-xylene [2]	89.1	30-150		3/1/12 15:49

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12B0995-01 [PH-VBQ-240]	B047122	500	5.00	02/29/12
12B0995-02 [PH-VBQ-260]	B047122	500	5.00	02/29/12
12B0995-03 [PH-VBQ-281]	B047122	500	5.00	02/29/12

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

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047122 - SW-846 3510C										
Blank (B047122-BLK1)				Prepared: 02/29/12 Analyzed: 03/01/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.57*		µg/L	2.00		78.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.77*		µg/L	2.00		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.88*		µg/L	2.00		93.9	30-150			
LCS (B047122-BS1)				Prepared: 02/29/12 Analyzed: 03/01/12						
Aroclor-1016	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		111	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500		97.6	40-140			
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		95.7	40-140			
Surrogate: Decachlorobiphenyl	*1.86*		µg/L	2.00		92.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.68*		µg/L	2.00		83.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.88*		µg/L	2.00		94.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.99*		µg/L	2.00		99.4	30-150			
LCS Dup (B047122-BSD1)				Prepared: 02/29/12 Analyzed: 03/01/12						
Aroclor-1016	0.54	0.20	µg/L	0.500		109	40-140	1.35	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		111	40-140	0.459	20	
Aroclor-1260	0.48	0.20	µg/L	0.500		96.9	40-140	0.668	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.3	40-140	0.677	20	
Surrogate: Decachlorobiphenyl	*1.74*		µg/L	2.00		87.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.60*		µg/L	2.00		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.83*		µg/L	2.00		91.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.95*		µg/L	2.00		97.5	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12B0995

Company Name: Woodard & Curran
Address: 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J Hamel, A Wallace
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email: Awallace@ " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 PCBs
	~~PH-VBBQ~~ - KR 2/29/12							
01	PH-VBQ-240	2/29/12	1830			AQ	U	✓
02	PH-VBQ-260	↓	1840			AQ	U	✓
03	PH-VBQ-281	↓	1850			AQ	U	✓

2/29/12

* Note - High temp attributed to DI H_2O picked up at lab 2/29/12 at time of sample dropoff (KR)

Comments: ① 240 Drill Bit for Brick ② 260 - Trowel for Soil ③ 281 Trowel for Soil ④ Samples 240/260 not collected prior - DI H_2O jug broke in transit prior to collection

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

# of Containers	1 / I / AG
** Preservation	
***Container Code	

Dissolved Metals
○ Field Filtered
○ Lab to Filter

*****Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature) KR (K Rinard)	Date/Time: 2/29/12 1855
Received by: (signature) [signature] 20.8	Date/Time: 2/29 1855
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: ~~RL - ≤ 1mg/kg~~ KR RL - ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: SD DATE: 2/29/12

1) Was the chain(s) of custody relinquished and signed? ~~Yes~~ No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☑ Ambient ☑ In Cooler(s) ☐

Were the samples received in Temperature Compliance of (2-6°C)? ~~Yes~~ No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 20.8

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	3	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No ~~N/A~~ _____

Do all samples have the proper Base pH: Yes No ~~N/A~~ _____

Doc# 277

Rev. 1 May 2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12B0995
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12B0995-01 thru 12B0995-03

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/02/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 7, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard - Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0113

Enclosed are results of analyses for samples received by the laboratory on March 5, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/7/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0113

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

PROJECT LOCATION: Harvard - Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBS-289	12C0113-01	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

A five times dilution was perfomed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

12C0113-01[PH-VBS-289]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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Project Location: Harvard - Pound Hall | Sample Description: | Work Order: 12C0113

Date Received: 3/5/2012

Field Sample #: PH-VBS-289 | Sampled: 3/5/2012 15:10

Sample ID: 12C0113-01

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/5/12	3/6/12 18:13	MJC
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/5/12	3/6/12 18:13	MJC
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/5/12	3/6/12 18:13	MJC
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/5/12	3/6/12 18:13	MJC
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/5/12	3/6/12 18:13	MJC
Aroclor-1254 [1]	0.11	0.11	mg/Kg dry	5		SW-846 8082A	3/5/12	3/6/12 18:13	MJC
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/5/12	3/6/12 18:13	MJC
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/5/12	3/6/12 18:13	MJC
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	3/5/12	3/6/12 18:13	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.0	30-150		3/6/12 18:13
Decachlorobiphenyl [2]	85.6	30-150		3/6/12 18:13
Tetrachloro-m-xylene [1]	102	30-150		3/6/12 18:13
Tetrachloro-m-xylene [2]	103	30-150		3/6/12 18:13

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Project Location: Harvard - Pound Hall
Sample Description:
Work Order: 12C0113

Date Received: 3/5/2012

Field Sample #: PH-VBS-289
Sampled: 3/5/2012 15:10

Sample ID: 12C0113-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	3/5/12	3/6/12 9:12	WAL

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
12C0113-01 [PH-VBS-289]	B047355	03/05/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0113-01 [PH-VBS-289]	B047354	10.1	10.0	03/05/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047354 - SW-846 3540C										
Blank (B047354-BLK1)				Prepared: 03/05/12 Analyzed: 03/06/12						
Aroclor-1016	ND	0.10	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1221	ND	0.10	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1232	ND	0.10	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1242	ND	0.10	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1248	ND	0.10	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1254	ND	0.10	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1260	ND	0.10	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1262	ND	0.10	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.10	mg/Kg wet							
Aroclor-1268	ND	0.10	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.10	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.192*		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		96.2	30-150			
LCS (B047354-BS1)				Prepared: 03/05/12 Analyzed: 03/06/12						
Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		114	40-140			
Aroclor-1016 [2C]	0.21	0.10	mg/Kg wet	0.200		106	40-140			
Aroclor-1260	0.21	0.10	mg/Kg wet	0.200		103	40-140			
Aroclor-1260 [2C]	0.22	0.10	mg/Kg wet	0.200		108	40-140			
Surrogate: Decachlorobiphenyl	*0.221*		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.3	30-150			
LCS Dup (B047354-BSD1)				Prepared: 03/05/12 Analyzed: 03/06/12						
Aroclor-1016	0.23	0.10	mg/Kg wet	0.200		115	40-140	0.665	30	
Aroclor-1016 [2C]	0.22	0.10	mg/Kg wet	0.200		108	40-140	1.61	30	
Aroclor-1260	0.20	0.10	mg/Kg wet	0.200		101	40-140	2.43	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg wet	0.200		107	40-140	0.102	30	
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.4	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-32	A five times dilution was perfomed as part of the standard analytical procedure.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12C0113

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard - Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Telephone:
Project #
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax #~~ jhamel@woodardcurran.com
Email: Awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection: Beginning Date/Time	Collection: Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C										# of Containers
01	PH-VBS-289	3/5/12	~~1900~~ 1510 KM	3/5/12		Soil	Unk	✓										** Preservation
																		***Container Code
								1-	802									
								ILE										
								G										

3/5/12

KM

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082 via 3540 C Soxhlet ② Redig @ S-1(270) ③ Depth of 18-21" bgs ④ 48-Hr TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
KRinard (K Rinard) (ICED)	3/5/12 1900
Received by: (signature) 4.8	Date/Time: 3/5 1900
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL - ≤ 1mg/kg

Is your project MCP or RCP ?
○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** SD **DATE:** 3/5/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.8

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	1
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May 2

12C0113-01 PH-VBS-289

Analyte	Results		%RPD
Aroclor-1254	0.11	0.104118	5.49
Surrogates			
Tetrachloro-m-xylene	0.222	0.2245492	1.14
Decachlorobiphenyl	0.196	0.1859723	5.25

B047354-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.192	0.19247	0.244
Decachlorobiphenyl	0.203	0.191615	5.77

B047354-BS1 LCS

Analyte	Results		%RPD
Aroclor-1260	0.21	0.215015	2.36
Aroclor-1016	0.23	0.212565	7.88
Surrogates			
Tetrachloro-m-xylene	0.196	0.196605	0.308
Decachlorobiphenyl	0.221	0.20861	5.77

B047354-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1260	0.20	0.214795	7.13
Aroclor-1016	0.23	0.216025	6.27
Surrogates			
Tetrachloro-m-xylene	0.193	0.196895	2
Decachlorobiphenyl	0.210	0.198865	5.45

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0113
Project Location: Harvard - Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0113-01

Matrices: Soil

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/07/12

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

March 14, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0275

Enclosed are results of analyses for samples received by the laboratory on March 9, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/14/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0275

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-290	12C0275-01	Product/Solid	IB (224)	SW-846 8082A	
PH-VBC-292	12C0275-02	Product/Solid	IB (231)	SW-846 8082A	
PH-VBC-293	12C0275-03	Product/Solid	IB (236)	SW-846 8082A	
PH-VBC-294	12C0275-04	Product/Solid	IB	SW-846 8082A	
PH-VBC-297	12C0275-05	Product/Solid	Standard Vertical	SW-846 8082A	
PH-VBC-291	12C0275-06	Product/Solid	IB (230)	SW-846 8082A	
PH-VBC-295	12C0275-07	Product/Solid	IB-Stairwell	SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harvard Univ. Pound Hall | Sample Description: IB (224) | Work Order: 12C0275

Date Received: 3/9/2012

Field Sample #: PH-VBC-290 | Sampled: 3/8/2012 16:30

Sample ID: 12C0275-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 20:50	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 20:50	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 20:50	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 20:50	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 20:50	MJC
Aroclor-1254 [1]	0.13	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 20:50	MJC
Aroclor-1260 [2]	0.26	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 20:50	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 20:50	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 20:50	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	112	30-150		3/12/12 20:50
Decachlorobiphenyl [2]	106	30-150		3/12/12 20:50
Tetrachloro-m-xylene [1]	103	30-150		3/12/12 20:50
Tetrachloro-m-xylene [2]	105	30-150		3/12/12 20:50

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Project Location: Harvard Univ. Pound Hall | Sample Description: IB (231) | Work Order: 12C0275

Date Received: 3/9/2012

Field Sample #: PH-VBC-292 | Sampled: 3/8/2012 15:35

Sample ID: 12C0275-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:02	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:02	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:02	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:02	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:02	MJC
Aroclor-1254 [1]	1.0	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:02	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:02	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:02	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:02	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	115	30-150		3/12/12 21:02
Decachlorobiphenyl [2]	107	30-150		3/12/12 21:02
Tetrachloro-m-xylene [1]	100	30-150		3/12/12 21:02
Tetrachloro-m-xylene [2]	101	30-150		3/12/12 21:02

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Project Location: Harvard Univ. Pound Hall | Sample Description: IB (236) | Work Order: 12C0275

Date Received: 3/9/2012

Field Sample #: PH-VBC-293 | Sampled: 3/8/2012 16:00

Sample ID: 12C0275-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:21	PJG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:21	PJG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:21	PJG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:21	PJG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:21	PJG
Aroclor-1254 [2]	0.99	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:21	PJG
Aroclor-1260 [2]	3.0	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:21	PJG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:21	PJG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:21	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.0	30-150		3/13/12 17:21
Decachlorobiphenyl [2]	84.2	30-150		3/13/12 17:21
Tetrachloro-m-xylene [1]	102	30-150		3/13/12 17:21
Tetrachloro-m-xylene [2]	108	30-150		3/13/12 17:21

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Project Location: Harvard Univ. Pound Hall | Sample Description: IB | Work Order: 12C0275

Date Received: 3/9/2012

Field Sample #: PH-VBC-294 | Sampled: 3/8/2012 17:30

Sample ID: 12C0275-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/9/12	3/13/12 17:34	PJG
Aroclor-1221 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/9/12	3/13/12 17:34	PJG
Aroclor-1232 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/9/12	3/13/12 17:34	PJG
Aroclor-1242 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/9/12	3/13/12 17:34	PJG
Aroclor-1248 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/9/12	3/13/12 17:34	PJG
Aroclor-1254 [2]	1.5	0.20	mg/Kg	2		SW-846 8082A	3/9/12	3/13/12 17:34	PJG
Aroclor-1260 [2]	0.81	0.20	mg/Kg	2		SW-846 8082A	3/9/12	3/13/12 17:34	PJG
Aroclor-1262 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/9/12	3/13/12 17:34	PJG
Aroclor-1268 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/9/12	3/13/12 17:34	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.4	30-150		3/13/12 17:34
Decachlorobiphenyl [2]	85.7	30-150		3/13/12 17:34
Tetrachloro-m-xylene [1]	95.0	30-150		3/13/12 17:34
Tetrachloro-m-xylene [2]	109	30-150		3/13/12 17:34

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Project Location: Harvard Univ. Pound Hall | Sample Description: Standard Vertical | Work Order: 12C0275

Date Received: 3/9/2012

Field Sample #: PH-VBC-297 | Sampled: 3/8/2012 18:30

Sample ID: 12C0275-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:39	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:39	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:39	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:39	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:39	MJC
Aroclor-1254 [2]	1.1	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:39	MJC
Aroclor-1260 [2]	1.1	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:39	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:39	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:39	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	117	30-150		3/12/12 21:39
Decachlorobiphenyl [2]	108	30-150		3/12/12 21:39
Tetrachloro-m-xylene [1]	102	30-150		3/12/12 21:39
Tetrachloro-m-xylene [2]	104	30-150		3/12/12 21:39

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Project Location: Harvard Univ. Pound Hall | Sample Description: IB (230) | Work Order: 12C0275

Date Received: 3/9/2012

Field Sample #: PH-VBC-291 | Sampled: 3/9/2012 13:00

Sample ID: 12C0275-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:52	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:52	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:52	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:52	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:52	MJC
Aroclor-1254 [2]	1.2	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:52	MJC
Aroclor-1260 [2]	1.1	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:52	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:52	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 21:52	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	126	30-150		3/12/12 21:52
Decachlorobiphenyl [2]	116	30-150		3/12/12 21:52
Tetrachloro-m-xylene [1]	105	30-150		3/12/12 21:52
Tetrachloro-m-xylene [2]	107	30-150		3/12/12 21:52

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Project Location: Harvard Univ. Pound Hall | Sample Description: IB-Stairwell | Work Order: 12C0275

Date Received: 3/9/2012

Field Sample #: PH-VBC-295 | Sampled: 3/9/2012 13:20

Sample ID: 12C0275-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:04	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:04	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:04	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:04	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:04	MJC
Aroclor-1254 [2]	1.0	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:04	MJC
Aroclor-1260 [2]	0.97	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:04	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:04	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:04	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	120	30-150		3/12/12 22:04
Decachlorobiphenyl [2]	110	30-150		3/12/12 22:04
Tetrachloro-m-xylene [1]	102	30-150		3/12/12 22:04
Tetrachloro-m-xylene [2]	104	30-150		3/12/12 22:04

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0275-01 [PH-VBC-290]	B047651	2.00	10.0	03/09/12
12C0275-02 [PH-VBC-292]	B047651	2.00	10.0	03/09/12
12C0275-03 [PH-VBC-293]	B047651	2.00	10.0	03/09/12
12C0275-04 [PH-VBC-294]	B047651	2.00	10.0	03/09/12
12C0275-05 [PH-VBC-297]	B047651	2.00	10.0	03/09/12
12C0275-06 [PH-VBC-291]	B047651	2.00	10.0	03/09/12
12C0275-07 [PH-VBC-295]	B047651	2.00	10.0	03/09/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047651 - SW-846 3540C										
Blank (B047651-BLK1)				Prepared: 03/09/12 Analyzed: 03/12/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.966*		mg/Kg	1.00		96.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.982*		mg/Kg	1.00		98.2	30-150			
LCS (B047651-BS1)				Prepared: 03/09/12 Analyzed: 03/12/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250		98.7	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140			
Surrogate: Decachlorobiphenyl	*1.22*		mg/Kg	1.00		122	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS Dup (B047651-BSD1)				Prepared: 03/09/12 Analyzed: 03/12/12						
Aroclor-1016	0.22	0.10	mg/Kg	0.250		87.7	40-140	11.8	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg	0.250		93.4	40-140	11.8	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250		91.2	40-140	11.4	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140	9.86	30	
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.945*		mg/Kg	1.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.889*		mg/Kg	1.00		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.903*		mg/Kg	1.00		90.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047651 - SW-846 3540C										
Matrix Spike (B047651-MS1)		**Source: 12C0275-01**		Prepared: 03/09/12 Analyzed: 03/12/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250	0.0	102	40-140			
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250	0.0	115	40-140			
Aroclor-1260	0.42	0.10	mg/Kg	0.250	0.23	74.0	40-140			
Aroclor-1260 [2C]	0.45	0.10	mg/Kg	0.250	0.26	76.8	40-140			
Surrogate: Decachlorobiphenyl	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Matrix Spike Dup (B047651-MSD1)		**Source: 12C0275-01**		Prepared: 03/09/12 Analyzed: 03/12/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250	0.0	101	40-140	0.918	50	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250	0.0	114	40-140	0.722	50	
Aroclor-1260	0.44	0.10	mg/Kg	0.250	0.23	82.9	40-140	5.17	50	
Aroclor-1260 [2C]	0.48	0.10	mg/Kg	0.250	0.26	86.8	40-140	5.37	50	
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
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East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

12C0275

Page 1 of 1

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ. - Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Project Proposal Provided? (for billing purposes) ✓ yes 2011 12 11 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax# jhamel@woodardcurran.com
Email: Awallace@ " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

# of Containers: 1
** Preservation: I
***Container Code: G - 2oz jar

ANALYSIS REQUESTED: EPA 8082/3540C

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C								
-01	PH-VBC-290	3/8/12	1630			C	Unk	✓				IB (224)				
-02	PH-VBC-292	↓	1535			C	Unk	✓				IB (231)				
-03	PH-VBC-293	↓	1600			C	Unk	✓				IB (236)				
-04	PH-VBC-294	3/8/12	1730			C	Unk	✓				IB				
-05	PH-VBC-297	↓	1830			C	Unk	✓				Stairwell Vertical				
-06	PH-VBL-291	3/9/12	1300			C	Unk	✓				IB (230)				
-07	PH-VBL-295	3/9/12	1320			C	Unk	✓				IB - Stairwell +6"				
	KM 3/9/12															
	(4) Additional Samples will be dropped off.															

Comments: (1) EPA 8082 PCB's by 3540C (2) RL ≤ 1mg/kg (3) Matrix (C)=Concrete (4) Lab does not need to include description

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Signature	Date/Time
Relinquished by: (signature) K Rinard	3/9/12 1330
Received by: (signature) [signature]	3/9/12 1400
Relinquished by: (signature) [signature]	3/9/12 1826
Received by: (signature) [signature]	3/9/12 1826

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ______

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: CEC DATE: 3/1/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.4

5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 14

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	7
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277
Rev. 1 May 2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0275
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0275-01 thru 12C0275-07

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 03/14/12

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March 14, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Pound Hall - Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0288

Enclosed are results of analyses for samples received by the laboratory on March 9, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/14/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0288

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

PROJECT LOCATION: Pound Hall - Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-298	12C0288-01	Product/Solid		SW-846 8082A	
PH-VBCD-299	12C0288-02	Product/Solid		SW-846 8082A	
PH-VBQ-300	12C0288-03	Water		SW-846 8082A	
PH-VBC-296	12C0288-04	Product/Solid		SW-846 8082A	
PH-VBC-301	12C0288-05	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Pound Hall - Cambridge, MA
Sample Description:
Work Order: 12C0288

Date Received: 3/9/2012

Field Sample #: PH-VBC-298
Sampled: 3/9/2012 14:50

Sample ID: 12C0288-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:46	PJG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:46	PJG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:46	PJG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:46	PJG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:46	PJG
Aroclor-1254 [2]	3.5	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:46	PJG
Aroclor-1260 [2]	0.98	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:46	PJG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:46	PJG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:46	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		3/13/12 17:46
Decachlorobiphenyl [2]	87.1	30-150		3/13/12 17:46
Tetrachloro-m-xylene [1]	112	30-150		3/13/12 17:46
Tetrachloro-m-xylene [2]	119	30-150		3/13/12 17:46

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Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12C0288

Date Received: 3/9/2012

Field Sample #: PH-VBCD-299 | Sampled: 3/9/2012 14:50

Sample ID: 12C0288-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:59	PJG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:59	PJG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:59	PJG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:59	PJG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:59	PJG
Aroclor-1254 [2]	4.1	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:59	PJG
Aroclor-1260 [2]	1.1	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:59	PJG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:59	PJG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/9/12	3/13/12 17:59	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		3/13/12 17:59
Decachlorobiphenyl [2]	89.8	30-150		3/13/12 17:59
Tetrachloro-m-xylene [1]	109	30-150		3/13/12 17:59
Tetrachloro-m-xylene [2]	116	30-150		3/13/12 17:59

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Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12C0288

Date Received: 3/9/2012

Field Sample #: PH-VBQ-300 | Sampled: 3/9/2012 20:00

Sample ID: 12C0288-03

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/10/12	3/12/12 19:23	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/10/12	3/12/12 19:23	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/10/12	3/12/12 19:23	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/10/12	3/12/12 19:23	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/10/12	3/12/12 19:23	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/10/12	3/12/12 19:23	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/10/12	3/12/12 19:23	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/10/12	3/12/12 19:23	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/10/12	3/12/12 19:23	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	41.5	30-150		3/12/12 19:23
Decachlorobiphenyl [2]	37.1	30-150		3/12/12 19:23
Tetrachloro-m-xylene [1]	86.1	30-150		3/12/12 19:23
Tetrachloro-m-xylene [2]	87.4	30-150		3/12/12 19:23

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

Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12C0288

Date Received: 3/9/2012

Field Sample #: PH-VBC-296 | Sampled: 3/9/2012 15:40

Sample ID: 12C0288-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:41	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:41	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:41	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:41	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:41	MJC
Aroclor-1254 [1]	0.42	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:41	MJC
Aroclor-1260 [2]	1.2	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:41	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:41	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:41	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	119	30-150		3/12/12 22:41
Decachlorobiphenyl [2]	107	30-150		3/12/12 22:41
Tetrachloro-m-xylene [1]	100	30-150		3/12/12 22:41
Tetrachloro-m-xylene [2]	102	30-150		3/12/12 22:41

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Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12C0288

Date Received: 3/9/2012

Field Sample #: PH-VBC-301 | Sampled: 3/9/2012 16:40

Sample ID: 12C0288-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:54	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:54	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:54	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:54	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:54	MJC
Aroclor-1254 [1]	0.34	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:54	MJC
Aroclor-1260 [1]	0.32	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:54	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:54	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/9/12	3/12/12 22:54	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	126	30-150		3/12/12 22:54
Decachlorobiphenyl [2]	114	30-150		3/12/12 22:54
Tetrachloro-m-xylene [1]	104	30-150		3/12/12 22:54
Tetrachloro-m-xylene [2]	106	30-150		3/12/12 22:54

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0288-01 [PH-VBC-298]	B047651	2.00	10.0	03/09/12
12C0288-02 [PH-VBCD-299]	B047651	2.00	10.0	03/09/12
12C0288-04 [PH-VBC-296]	B047651	2.00	10.0	03/09/12
12C0288-05 [PH-VBC-301]	B047651	2.00	10.0	03/09/12

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12C0288-03 [PH-VBQ-300]	B047659	1000	10.0	03/10/12

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047659 - SW-846 3510C										
Blank (B047659-BLK1)				Prepared: 03/10/12 Analyzed: 03/12/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.57*		µg/L	2.00		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.48*		µg/L	2.00		74.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.52*		µg/L	2.00		75.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.60*		µg/L	2.00		80.1	30-150			
LCS (B047659-BS1)				Prepared: 03/10/12 Analyzed: 03/12/12						
Aroclor-1016	0.41	0.20	µg/L	0.500		81.8	40-140			
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		101	40-140			
Aroclor-1260	0.42	0.20	µg/L	0.500		84.3	40-140			
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		93.6	40-140			
Surrogate: Decachlorobiphenyl	*1.39*		µg/L	2.00		69.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.32*		µg/L	2.00		65.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.65*		µg/L	2.00		82.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.74*		µg/L	2.00		87.1	30-150			
LCS Dup (B047659-BSD1)				Prepared: 03/10/12 Analyzed: 03/12/12						
Aroclor-1016	0.43	0.20	µg/L	0.500		85.7	40-140	4.65	20	
Aroclor-1016 [2C]	0.49	0.20	µg/L	0.500		98.6	40-140	2.40	20	
Aroclor-1260	0.43	0.20	µg/L	0.500		86.4	40-140	2.51	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		95.9	40-140	2.44	20	
Surrogate: Decachlorobiphenyl	*1.28*		µg/L	2.00		63.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.21*		µg/L	2.00		60.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.69*		µg/L	2.00		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.79*		µg/L	2.00		89.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047651 - SW-846 3540C										
Blank (B047651-BLK1)				Prepared: 03/09/12 Analyzed: 03/12/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.966*		mg/Kg	1.00		96.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.982*		mg/Kg	1.00		98.2	30-150			
LCS (B047651-BS1)				Prepared: 03/09/12 Analyzed: 03/12/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250		98.7	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140			
Surrogate: Decachlorobiphenyl	*1.22*		mg/Kg	1.00		122	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS Dup (B047651-BSD1)				Prepared: 03/09/12 Analyzed: 03/12/12						
Aroclor-1016	0.22	0.10	mg/Kg	0.250		87.7	40-140	11.8	30	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg	0.250		93.4	40-140	11.8	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250		91.2	40-140	11.4	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140	9.86	30	
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.945*		mg/Kg	1.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.889*		mg/Kg	1.00		88.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.903*		mg/Kg	1.00		90.3	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

CHAIN OF CUSTODY RECORD

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
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East longmeadow, MA 01028

12C0288

Page 1 of 1

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J Hamel, A Wallace
Project Location: Harvard - Round Hall
Sampled By: Kim Rinard (413) 531-4455

Project Proposal Provided? (for billing purposes)
✓ yes 2011 1211 proposal date

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C	EPA 8082 PCBs (1 bottle N/P)	
-01	PH-VBC-298	3/9/12	1450			C	Unk	✓		
-02	PH-VBCD-299		1450			C	Unk	✓		
-03	PH-VBQ-300		2000		AQ	~~Grab~~ 3/9/12	Unk		✓	
-04	PH-VBC-296	3/9/12	1540			C	Unk	✓		IB Int W/D @ 3"
-05	PH-VBC-301	3/9/12	1640			C	Unk	✓		IB Int W/D @ 6"
			3/9/12							

# of Containers: 1
** Preservation: NA
***Container Code: 2oz glass

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082/3540C (Soxhlet) ② RL ≤ 1mg/kg ③ C = Concrete ④ Lab does not need to include description

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
K.A. Rinard	3/9/12 2000
Received by: (signature)	Date/Time: 3/9/12 2000
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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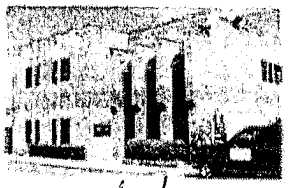

Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** CEC **DATE:** 3/9/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☑ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 17.5c

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	1	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	4
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May 2

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0288
Project Location: Pound Hall - Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0288-01 thru 12C0288-05

Matrices: Product/Solid Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 03/14/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 15, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0345

Enclosed are results of analyses for samples received by the laboratory on March 13, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/15/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0345

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-302	12C0345-01	Concrete		SW-846 8082A	
PH-VBC-303	12C0345-02	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0345

Date Received: 3/13/2012

Field Sample #: PH-VBC-302 | Sampled: 3/12/2012 18:40

Sample ID: 12C0345-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 20:57	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 20:57	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 20:57	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 20:57	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 20:57	JMB
Aroclor-1254 [1]	0.50	0.087	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 20:57	JMB
Aroclor-1260 [2]	1.0	0.087	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 20:57	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 20:57	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 20:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	121	30-150		3/14/12 20:57
Decachlorobiphenyl [2]	106	30-150		3/14/12 20:57
Tetrachloro-m-xylene [1]	124	30-150		3/14/12 20:57
Tetrachloro-m-xylene [2]	101	30-150		3/14/12 20:57

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0345

Date Received: 3/13/2012

Field Sample #: PH-VBC-303 | Sampled: 3/12/2012 19:00

Sample ID: 12C0345-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 21:09	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 21:09	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 21:09	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 21:09	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 21:09	JMB
Aroclor-1254 [1]	0.87	0.10	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 21:09	JMB
Aroclor-1260 [2]	0.77	0.10	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 21:09	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 21:09	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/13/12	3/14/12 21:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	123	30-150		3/14/12 21:09
Decachlorobiphenyl [2]	108	30-150		3/14/12 21:09
Tetrachloro-m-xylene [1]	125	30-150		3/14/12 21:09
Tetrachloro-m-xylene [2]	102	30-150		3/14/12 21:09

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0345-01 [PH-VBC-302]	B047826	2.30	10.0	03/13/12
12C0345-02 [PH-VBC-303]	B047826	2.00	10.0	03/13/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047826 - SW-846 3540C										
Blank (B047826-BLK1)				Prepared: 03/13/12 Analyzed: 03/14/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.19*		mg/Kg	1.00		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*1.23*		mg/Kg	1.00		123	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.00*		mg/Kg	1.00		100	30-150			
LCS (B047826-BS1)				Prepared: 03/13/12 Analyzed: 03/14/12						
Aroclor-1016	0.30	0.10	mg/Kg	0.250		121	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140			
Aroclor-1260	0.23	0.10	mg/Kg	0.250		92.1	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		109	40-140			
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*1.24*		mg/Kg	1.00		124	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101	30-150			
LCS Dup (B047826-BSD1)				Prepared: 03/13/12 Analyzed: 03/14/12						
Aroclor-1016	0.29	0.10	mg/Kg	0.250		118	40-140	3.13	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140	0.569	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250		92.1	40-140	0.0217	30	
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		107	40-140	1.87	30	
Surrogate: Decachlorobiphenyl	*1.18*		mg/Kg	1.00		118	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*1.20*		mg/Kg	1.00		120	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.998*		mg/Kg	1.00		99.8	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12C0345

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
O FAX ✓ EMAIL O WEBSITE
~~Fax~~ # jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ✓ PDF ✓ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C															
								1															# of Containers
								I															** Preservation
								2oz	glass														***Container Code
-01	AH-VBC-302	3/12/12 3/13/12	1840			C	UNK	✓							2nd Floor								
-02	AH-VBC-303	3/12/12 3/13/12	1900			C	UNK	✓							3rd Floor								

3/13/12

Comments: ① EPA 8082 PCB via 3540C Soxhlet ② RL ≤ 1mg/kg
③ (C)=Concrete ④ Limited Volume provided to lab
⑤ Concrete Sponder (24") @ 6-7" distance

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
KRinard (KRinard)	3/13/12 1100
Received by: (signature)	Date/Time:
[illegible]	3/13/12 1100
Relinquished by: (signature)	Date/Time:
[illegible]	3/13/12 1730
Received by: (signature) 4.6°C	Date/Time:
C. Clough-Degall	3/13/12 17:30

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

ANALYSIS REQUESTED

Dissolved Metals
O Field Filtered
O Lab to Filter

*****Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: C.C.S. DATE: 3/13/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.6°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May 2

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0345
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0345-01 thru 12C0345-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 03/15/12

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

March 16, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard - Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0419

Enclosed are results of analyses for samples received by the laboratory on March 14, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/16/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0419

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

PROJECT LOCATION: Harvard - Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-306	12C0419-01	Concrete	1B at 6in Rm Discussion Rm	SW-846 8082A	
PH-VBC-309	12C0419-02	Concrete	2A @ 1-2in Disc Rm	SW-846 8082A	
PH-VBC-310	12C0419-03	Concrete	2A at 1-2in Rm 334	SW-846 8082A	
PH-VBC-304	12C0419-04	Concrete		SW-846 8082A	
PH-VBC-305	12C0419-05	Concrete	1B at 1-2in Bent	SW-846 8082A	
PH-VBB-311	12C0419-06	Brick	1st 4.5in from vertical	SW-846 8082A	
PH-VBC-312	12C0419-07	Concrete	1st floor/Door at handicap ramp	SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Harvard - Pound Hall | Sample Description: 1B at 6in Rm Discussion Rm | Work Order: 12C0419

Date Received: 3/14/2012

Field Sample #: PH-VBC-306 | Sampled: 3/13/2012 15:20

Sample ID: 12C0419-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 17:50	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 17:50	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 17:50	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 17:50	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 17:50	MJC
Aroclor-1254 [1]	0.80	0.091	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 17:50	MJC
Aroclor-1260 [1]	0.85	0.091	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 17:50	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 17:50	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 17:50	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	109	30-150		3/15/12 17:50
Decachlorobiphenyl [2]	110	30-150		3/15/12 17:50
Tetrachloro-m-xylene [1]	105	30-150		3/15/12 17:50
Tetrachloro-m-xylene [2]	110	30-150		3/15/12 17:50

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Project Location: Harvard - Pound Hall | Sample Description: 2A @ 1-2in Disc Rm | Work Order: 12C0419

Date Received: 3/14/2012

Field Sample #: PH-VBC-309 | Sampled: 3/13/2012 16:30

Sample ID: 12C0419-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:02	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:02	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:02	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:02	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:02	MJC
Aroclor-1254 [1]	0.60	0.095	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:02	MJC
Aroclor-1260 [2]	0.48	0.095	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:02	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:02	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:02	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	113	30-150		3/15/12 18:02
Decachlorobiphenyl [2]	113	30-150		3/15/12 18:02
Tetrachloro-m-xylene [1]	107	30-150		3/15/12 18:02
Tetrachloro-m-xylene [2]	112	30-150		3/15/12 18:02

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Project Location: Harvard - Pound Hall | Sample Description: 2A at 1-2in Rm 334 | Work Order: 12C0419

Date Received: 3/14/2012

Field Sample #: PH-VBC-310 | Sampled: 3/13/2012 17:15

Sample ID: 12C0419-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:14	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:14	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:14	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:14	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:14	MJC
Aroclor-1254 [1]	1.1	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:14	MJC
Aroclor-1260 [1]	0.40	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:14	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:14	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:14	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		3/15/12 18:14
Decachlorobiphenyl [2]	105	30-150		3/15/12 18:14
Tetrachloro-m-xylene [1]	102	30-150		3/15/12 18:14
Tetrachloro-m-xylene [2]	106	30-150		3/15/12 18:14

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Project Location: Harvard - Pound Hall | Sample Description: | Work Order: 12C0419

Date Received: 3/14/2012

Field Sample #: PH-VBC-304 | Sampled: 3/13/2012 17:45

Sample ID: 12C0419-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 11:48	MJC
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 11:48	MJC
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 11:48	MJC
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 11:48	MJC
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 11:48	MJC
Aroclor-1254 [2]	2.2	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 11:48	MJC
Aroclor-1260 [2]	11	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 11:48	MJC
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 11:48	MJC
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 11:48	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	108	30-150		3/16/12 11:48
Decachlorobiphenyl [2]	96.3	30-150		3/16/12 11:48
Tetrachloro-m-xylene [1]	98.1	30-150		3/16/12 11:48
Tetrachloro-m-xylene [2]	101	30-150		3/16/12 11:48

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Project Location: Harvard - Pound Hall | Sample Description: 1B at 1-2in Bent | Work Order: 12C0419

Date Received: 3/14/2012

Field Sample #: PH-VBC-305 | Sampled: 3/13/2012 18:20

Sample ID: 12C0419-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 12:01	MJC
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 12:01	MJC
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 12:01	MJC
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 12:01	MJC
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 12:01	MJC
Aroclor-1254 [2]	3.3	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 12:01	MJC
Aroclor-1260 [2]	12	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 12:01	MJC
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 12:01	MJC
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/14/12	3/16/12 12:01	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	115	30-150		3/16/12 12:01
Decachlorobiphenyl [2]	104	30-150		3/16/12 12:01
Tetrachloro-m-xylene [1]	107	30-150		3/16/12 12:01
Tetrachloro-m-xylene [2]	110	30-150		3/16/12 12:01

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Project Location: Harvard - Pound Hall
Sample Description: 1st 4.5in from vertical
Work Order: 12C0419

Date Received: 3/14/2012

Field Sample #: PH-VBB-311
Sampled: 3/14/2012 10:10

Sample ID: 12C0419-06

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:51	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:51	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:51	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:51	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:51	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:51	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:51	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:51	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 18:51	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		3/15/12 18:51
Decachlorobiphenyl [2]	107	30-150		3/15/12 18:51
Tetrachloro-m-xylene [1]	98.4	30-150		3/15/12 18:51
Tetrachloro-m-xylene [2]	103	30-150		3/15/12 18:51

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Project Location: Harvard - Pound Hall | Sample Description: 1st floor/Door at handicap ramp | Work Order: 12C0419

Date Received: 3/14/2012

Field Sample #: PH-VBC-312 | Sampled: 3/14/2012 12:25

Sample ID: 12C0419-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 19:04	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 19:04	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 19:04	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 19:04	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 19:04	MJC
Aroclor-1254 [1]	0.18	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 19:04	MJC
Aroclor-1260 [1]	0.11	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 19:04	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 19:04	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/14/12	3/15/12 19:04	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		3/15/12 19:04
Decachlorobiphenyl [2]	104	30-150		3/15/12 19:04
Tetrachloro-m-xylene [1]	95.7	30-150		3/15/12 19:04
Tetrachloro-m-xylene [2]	100	30-150		3/15/12 19:04

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0419-01 [PH-VBC-306]	B047902	2.20	10.0	03/14/12
12C0419-02 [PH-VBC-309]	B047902	2.10	10.0	03/14/12
12C0419-03 [PH-VBC-310]	B047902	2.00	10.0	03/14/12
12C0419-04 [PH-VBC-304]	B047902	2.00	10.0	03/14/12
12C0419-05 [PH-VBC-305]	B047902	2.00	10.0	03/14/12
12C0419-06 [PH-VBB-311]	B047902	2.00	10.0	03/14/12
12C0419-07 [PH-VBC-312]	B047902	2.00	10.0	03/14/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047902 - SW-846 3540C										
Blank (B047902-BLK1)				Prepared: 03/14/12 Analyzed: 03/15/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS (B047902-BS1)				Prepared: 03/14/12 Analyzed: 03/15/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		103	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140			
Surrogate: Decachlorobiphenyl	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.997*		mg/Kg	1.00		99.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS Dup (B047902-BSD1)				Prepared: 03/14/12 Analyzed: 03/15/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		105	40-140	1.28	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140	0.0592	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140	0.0579	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		106	40-140	4.52	30	
Surrogate: Decachlorobiphenyl	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12C0419

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Portland, ME
Attention: Amy Wallace, Jeff Hamel, Jill Russell
Project Location: HARVARD - Pound Hall
Sampled By: Kim Rinard (413) 531-4455
Project Proposal Provided? (for billing purposes) ✓ yes 2011 1211 proposal date

Telephone:
Project #: 223868
Client PO#:

DATA DELIVERY (check all that apply)
O FAX ✓ EMAIL O WEBSITE
Fax #: jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

# of Containers	1							
** Preservation	I							
***Container Code	2oz glass							

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 PCBs	
01	PH-VBC-306	3/13/12	1520			C	Unk	✓	IB @ 6" Rm Discussion Rm
02	PH-VBC-309	3/13/12	1630			C	Unk	✓	IIA @ 1-2" Disc Rm
03	PH-VBC-310	↓	1715			C	Unk	✓	IIA @ 1-2" Rm 334
04	PH-VBC-304	↓	1745			C	Unk	✓	
05	PH-VBC-305	3/13/12	1820			C	Unk	✓	IB @ 1-2" Bsmt
06	PH-VBB-311	3/14/12	1010			B	Unk	✓	1st flr - 4.5" from vertical
07	PH-VBC-312	↓	1225			C	Unk	✓	1st floor/Door @ handicap ramp

3/14/12 KAM

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082 by 3540 Soxhlet ② RL ≤ 1mg/kg ③ C = Concrete / B = Brick
④ Lab does not need to enter description

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time
Relinquished by: (signature) [signature] (K Rinard)	3/14/12 1305
Received by: (signature) [signature]	3/14/12 1305
Relinquished by: (signature) [signature]	3/14/12 1840
Received by: (signature) [signature] 4.6°	3/14/12 18:30

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☑ †24-Hr ✓ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID #

nelac AIHA NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
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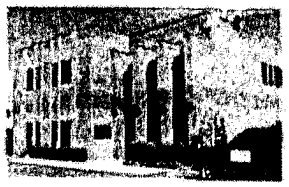

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 3/14/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? **Yes** **No** **N/A**

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.6°C

5) Are there Dissolved samples for the lab to filter? **Yes** (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) **No**

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	7
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0419
Project Location: Harvard - Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0419-01 thru 12C0419-07

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 03/16/12

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March 22, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ-Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0471

Enclosed are results of analyses for samples received by the laboratory on March 15, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/22/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0471

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

PROJECT LOCATION: Harvard Univ-Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-318	12C0471-02	Concrete		SW-846 8082A	
PH-VBC-331	12C0471-06	Concrete		SW-846 8082A	
PH-VBC-332	12C0471-07	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B048225-MS1, B048225-MSD1

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported. Possibly contains Aroclor 1260 as well. See attached chromatogram.

Analyte & Samples(s) Qualified:

Aroclor-1254, Aroclor-1254 [2C], Aroclor-1260, Aroclor-1260 [2C]

12C0471-06[PH-VBC-331], 12C0471-07[PH-VBC-332]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Harvard Univ-Pound Hall | Sample Description: | Work Order: 12C0471

Date Received: 3/15/2012

Field Sample #: PH-VBC-318 | Sampled: 3/15/2012 00:00

Sample ID: 12C0471-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:03	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:03	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:03	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:03	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:03	MJC
Aroclor-1254 [2]	0.83	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:03	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:03	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:03	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:03	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	121	30-150		3/21/12 14:03
Decachlorobiphenyl [2]	103	30-150		3/21/12 14:03
Tetrachloro-m-xylene [1]	110	30-150		3/21/12 14:03
Tetrachloro-m-xylene [2]	113	30-150		3/21/12 14:03

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Project Location: Harvard Univ-Pound Hall | Sample Description: | Work Order: 12C0471

Date Received: 3/15/2012

Field Sample #: PH-VBC-331 | Sampled: 3/15/2012 14:45

Sample ID: 12C0471-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:16	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:16	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:16	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:16	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:16	MJC
Aroclor-1254 [2]	0.79	0.095	mg/Kg	1	O-19	SW-846 8082A	3/20/12	3/21/12 14:16	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:16	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:16	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:16	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	109	30-150		3/21/12 14:16
Decachlorobiphenyl [2]	94.4	30-150		3/21/12 14:16
Tetrachloro-m-xylene [1]	112	30-150		3/21/12 14:16
Tetrachloro-m-xylene [2]	117	30-150		3/21/12 14:16

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Project Location: Harvard Univ-Pound Hall | Sample Description: | Work Order: 12C0471

Date Received: 3/15/2012

Field Sample #: PH-VBC-332 | Sampled: 3/15/2012 15:05

Sample ID: 12C0471-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:29	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:29	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:29	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:29	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:29	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:29	MJC
Aroclor-1260 [2]	0.65	0.095	mg/Kg	1	O-19	SW-846 8082A	3/20/12	3/21/12 14:29	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:29	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:29	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		3/21/12 14:29
Decachlorobiphenyl [2]	92.3	30-150		3/21/12 14:29
Tetrachloro-m-xylene [1]	110	30-150		3/21/12 14:29
Tetrachloro-m-xylene [2]	113	30-150		3/21/12 14:29

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0471-02 [PH-VBC-318]	B048225	2.10	10.0	03/20/12
12C0471-06 [PH-VBC-331]	B048225	2.10	10.0	03/20/12
12C0471-07 [PH-VBC-332]	B048225	2.10	10.0	03/20/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048225 - SW-846 3540C										
Blank (B048225-BLK1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	ND	0.091	mg/Kg							
Aroclor-1016 [2C]	ND	0.091	mg/Kg							
Aroclor-1221	ND	0.091	mg/Kg							
Aroclor-1221 [2C]	ND	0.091	mg/Kg							
Aroclor-1232	ND	0.091	mg/Kg							
Aroclor-1232 [2C]	ND	0.091	mg/Kg							
Aroclor-1242	ND	0.091	mg/Kg							
Aroclor-1242 [2C]	ND	0.091	mg/Kg							
Aroclor-1248	ND	0.091	mg/Kg							
Aroclor-1248 [2C]	ND	0.091	mg/Kg							
Aroclor-1254	ND	0.091	mg/Kg							
Aroclor-1254 [2C]	ND	0.091	mg/Kg							
Aroclor-1260	ND	0.091	mg/Kg							
Aroclor-1260 [2C]	ND	0.091	mg/Kg							
Aroclor-1262	ND	0.091	mg/Kg							
Aroclor-1262 [2C]	ND	0.091	mg/Kg							
Aroclor-1268	ND	0.091	mg/Kg							
Aroclor-1268 [2C]	ND	0.091	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.912*		mg/Kg	0.909		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.801*		mg/Kg	0.909		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.954*		mg/Kg	0.909		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	0.909		113	30-150			
LCS (B048225-BS1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	0.23	0.095	mg/Kg	0.238		98.6	40-140			
Aroclor-1016 [2C]	0.24	0.095	mg/Kg	0.238		99.7	40-140			
Aroclor-1260	0.23	0.095	mg/Kg	0.238		98.6	40-140			
Aroclor-1260 [2C]	0.24	0.095	mg/Kg	0.238		102	40-140			
Surrogate: Decachlorobiphenyl	*0.985*		mg/Kg	0.952		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.877*		mg/Kg	0.952		92.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.03*		mg/Kg	0.952		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	0.952		115	30-150			
LCS Dup (B048225-BSD1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	0.23	0.095	mg/Kg	0.238		96.4	40-140	2.20	30	
Aroclor-1016 [2C]	0.24	0.095	mg/Kg	0.238		100	40-140	0.702	30	
Aroclor-1260	0.24	0.095	mg/Kg	0.238		102	40-140	3.83	30	
Aroclor-1260 [2C]	0.25	0.095	mg/Kg	0.238		103	40-140	1.36	30	
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	0.952		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.899*		mg/Kg	0.952		94.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.988*		mg/Kg	0.952		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	0.952		110	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B048225 - SW-846 3540C											
Matrix Spike (B048225-MS1)		**Source: 12C0471-02**		Prepared: 03/20/12 Analyzed: 03/21/12							
Aroclor-1016	0.25	0.091	mg/Kg	0.227	0.0	111		40-140			
Aroclor-1016 [2C]	0.32	0.091	mg/Kg	0.227	0.0	139		40-140			
Aroclor-1260	0.63	0.091	mg/Kg	0.227	0.0	**276**	*	40-140			MS-21
Aroclor-1260 [2C]	0.60	0.091	mg/Kg	0.227	0.0	**265**	*	40-140			MS-21
Surrogate: Decachlorobiphenyl	*0.936*		mg/Kg	0.909		103		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.832*		mg/Kg	0.909		91.5		30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	0.909		112		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.11*		mg/Kg	0.909		122		30-150			
Matrix Spike Dup (B048225-MSD1)		**Source: 12C0471-02**		Prepared: 03/20/12 Analyzed: 03/21/12							
Aroclor-1016	0.25	0.095	mg/Kg	0.238	0.0	106		40-140	0.530	50	
Aroclor-1016 [2C]	0.31	0.095	mg/Kg	0.238	0.0	132		40-140	0.473	50	
Aroclor-1260	0.54	0.095	mg/Kg	0.238	0.0	**228**	*	40-140	14.6	50	MS-21
Aroclor-1260 [2C]	0.53	0.095	mg/Kg	0.238	0.0	**222**	*	40-140	13.3	50	MS-21
Surrogate: Decachlorobiphenyl	*0.960*		mg/Kg	0.952		101		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.852*		mg/Kg	0.952		89.5		30-150			
Surrogate: Tetrachloro-m-xylene	*1.07*		mg/Kg	0.952		113		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.16*		mg/Kg	0.952		122		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
O-19	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported. Possibly contains Aroclor 1260 as well. See attached chromatogram.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

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Page 1 of 1

12C0471

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland ME
Attention: J Hamel, Amy Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard (413) 531-4455
Kevin Delaney, Amy Wallace
Project Proposal Provided? (for billing purposes)
✓ yes 2011 1211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
~~Fax~~ # jhamel@woodardcurran.com
Email: awallace@ " " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540 Soxhlet	ANALYSIS REQUESTED									
								I										
								I										
								2oz glass										
01	PH-VBC-315	3/15/12				C	Unk	H										
⊗ 02	PH-VBC-318					C	↓	H										
03	PH-VBC-323		1150			C	↓	H										
04	PH-VBC-320					C	↓	H										
05	PH-VBC-325		1320			C	↓	H										
⊗ 06	PH-VBC-331		1445			C		H	Type 3A- 3rd Flr							3-4" @ 312		
⊗ 07	PH-VBC-332		1505			C		H	Type 3B-							3-4 @ 313		
								H										
⊗ Analyze per attached email.			3/15/12					H										
	MEIC 3/20/12			(Kmc)				H										

Comments: ① EPA 8082/3540C Soxhlet ② RL ≤ 1mg/kg C = CONCRETE
③ H denotes HOLD samples, contingent on samples results from primary locations

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] (K. Rinard)	3/15/12 1535
Received by: (signature) [signature]	Date/Time: 3/15/12 1535
Relinquished by: (signature) [signature]	Date/Time: 3/15/12 18:15
Received by: (signature) C. [signature] 2.0°C	Date/Time: 3/15/12 18:15

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other
RUSH ③ HOLD
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 3/15/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice [✓] Direct from Sampling [ ] Ambient [ ] In Cooler(s) [✓]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No **N/A**

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.0°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/(clear jar)	7
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Meghan Kelley

From: Amy Wallace [awallace@woodardcurran.com]
Sent: Monday, March 19, 2012 7:30 PM
To: mkelley@contestlabs.com
Subject: Pound Hall contingency samples to release for analysis

Hi Meghan

Can you please take the following four samples off of hold, and release them for a 48-hour analysis? I believe these were all collected on 3/15 or 3/16:

PH-VBC-318
PH-VBC-331
PH-VBC-332
PH-VBC-337

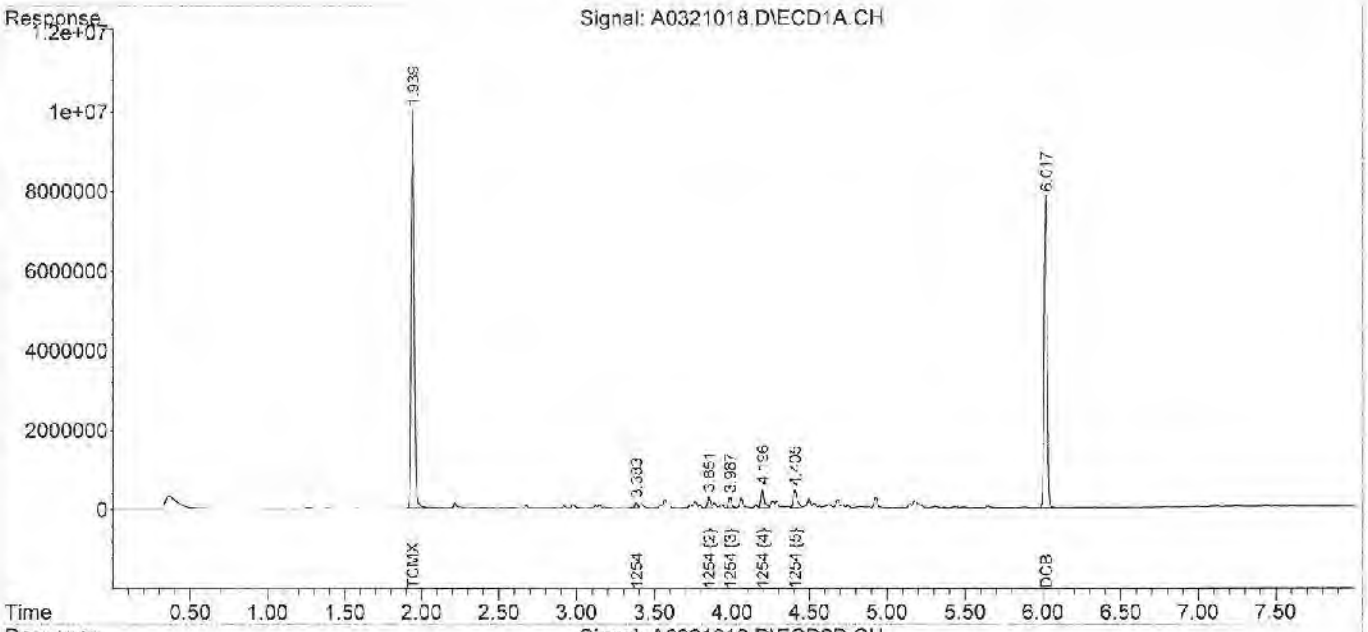
Thank you,
Amy

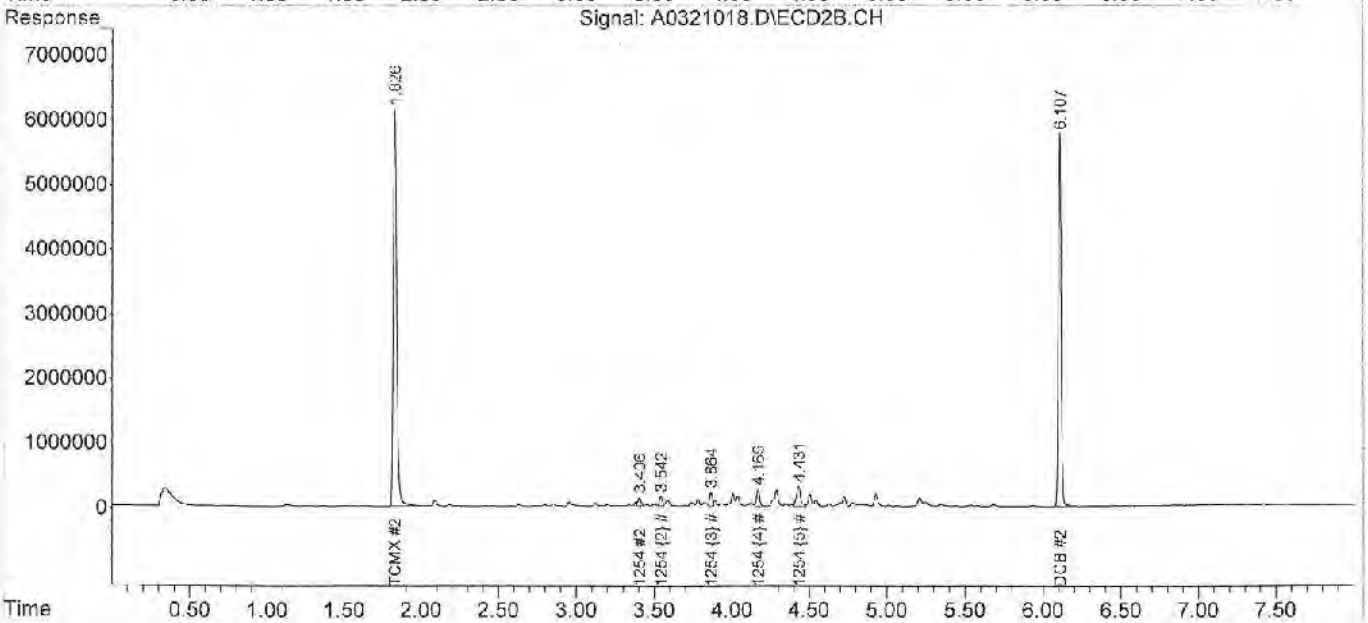
Quantitation Report (Not Reviewed)

n : C:\msdchem\1\DATA\032112\
le : A0321018.D
(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
: 21 Mar 2012 2:16 pm
asor : JMB
ple : 12C0471-06 Inst : HP G1530A
sc :
LS Vial : 18 Sample Multiplier: 1

Integration File signal 1: 54-F.E
Integration File signa 2: 54-B.E
Quant Time: Mar 21 17:50:13 2012
DataAcq Meth:H2PESTO2.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\H54032112.M
Quant Title : 1254 02/10/12 01/06/12
QLast Update : Mon Mar 19 12:47:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



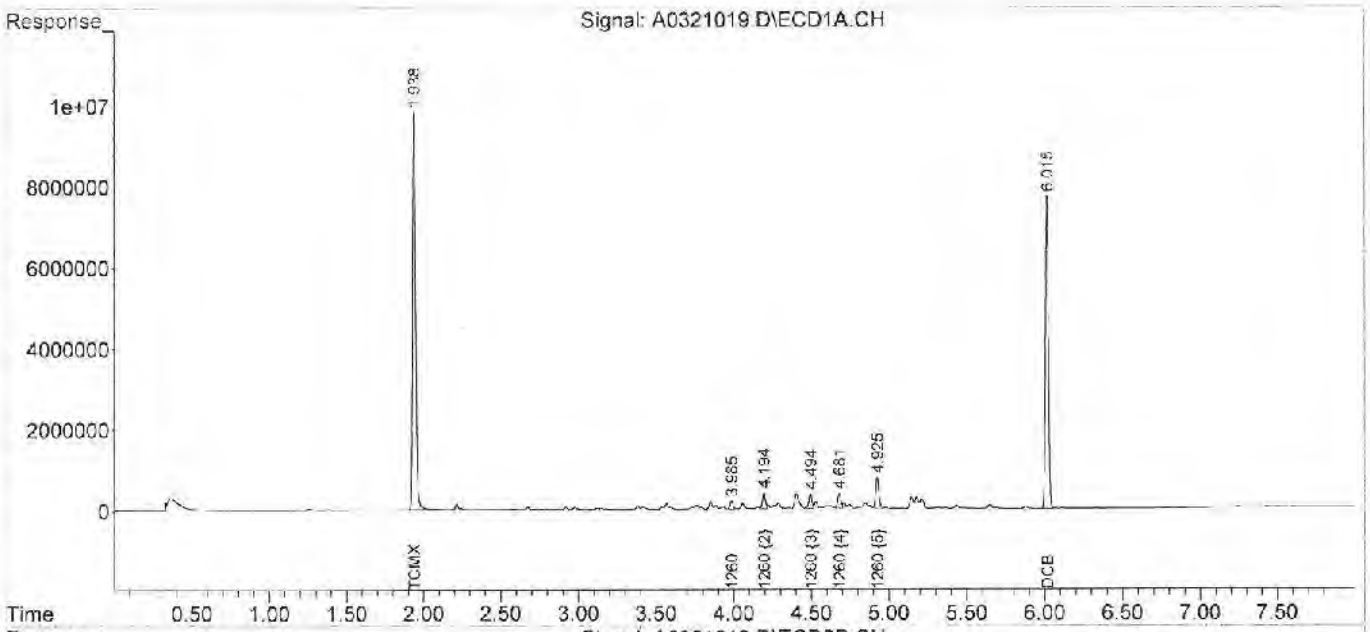


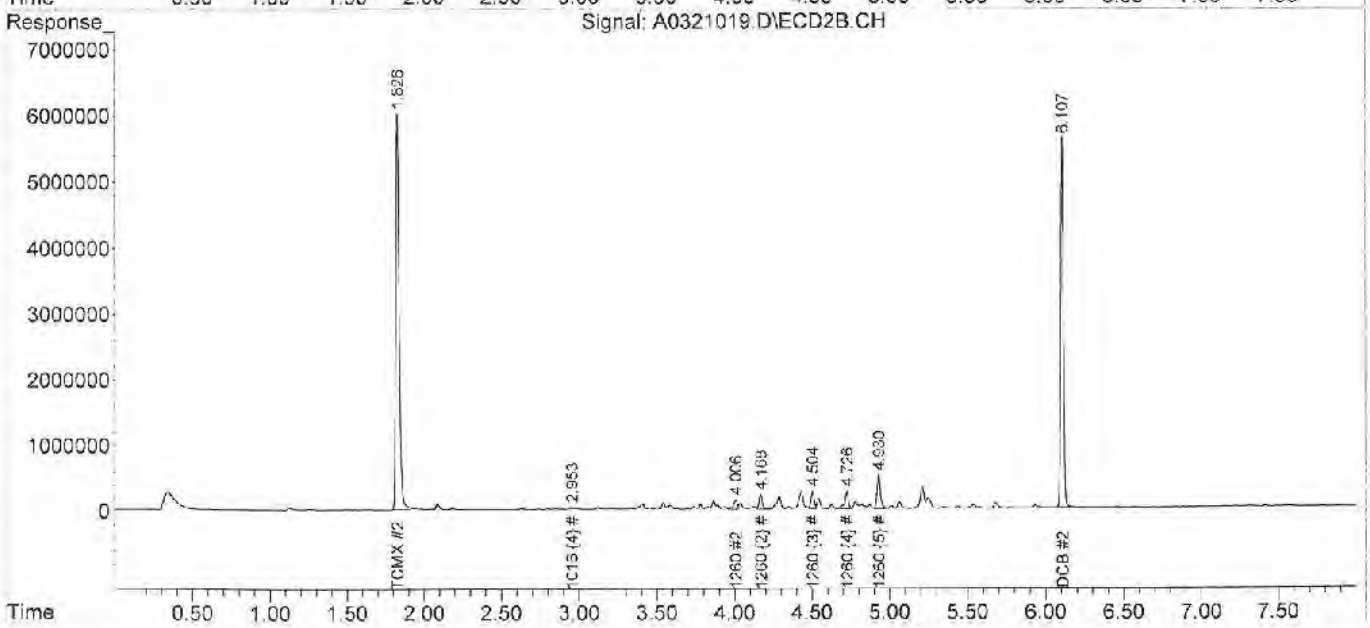
Quantitation Report (Not Reviewed)

: C:\msdchem\1\DATA\032112\
: A0321019.D
: Signal #1: ECD1A.CH Signal #2: ECD2B.CH
: 21 Mar 2012 2:29 pm
: JMB
: 12C0471-07 Inst : HP G1530A
:
Vial : 19 Sample Multiplier: 1

Integration File signal 1: 16-F.E
Integration File signal 2: 60-B.E
Quant Time: Mar 21 17:44:07 2012
DataAcq Meth:H2PEST02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\H60031912.M
Quant Title : 1260/1016 02/06/12 11/11/11
QLast Update : Mon Mar 19 09:51:38 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0471
Project Location: Harvard Univ-Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0471-02 thru 12C0471-07

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 03/22/12

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March 19, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Pound Hall - Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0476

Enclosed are results of analyses for samples received by the laboratory on March 15, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/19/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0476

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

PROJECT LOCATION: Pound Hall - Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-314	12C0476-01	Concrete	Rm 108 10-11	SW-846 8082A	
PH-VBC-316	12C0476-02	Concrete	Rm 103 10-11	SW-846 8082A	
PH-VBC-317	12C0476-03	Concrete	Stairway 10-11	SW-846 8082A	
PH-VBC-319	12C0476-04	Concrete	10-11	SW-846 8082A	
PH-VBC-321	12C0476-05	Concrete	Rm 213 10-11	SW-846 8082A	
PH-VBCD-322	12C0476-06	Concrete		SW-846 8082A	
PH-VBC-324	12C0476-07	Concrete	Rm 332 10-11	SW-846 8082A	
PH-VBC-327	12C0476-08	Concrete	Rm 332 Ext Window/Int Sill	SW-846 8082A	
PH-VBC-328	12C0476-09	Concrete	Ext Window/Int Sill	SW-846 8082A	
PH-VBC-329	12C0476-10	Concrete	Ext Window/Int Sill	SW-846 8082A	
PH-VBC-330	12C0476-11	Concrete	2nd Flr Stairwell 9.5-10.5	SW-846 8082A	
PH-VBC-312	12C0476-12	Concrete	Type IIIA 3rd floor (1-2in)	SW-846 8082A	
PH-VBC-308	12C0476-13	Concrete	Type IIIB 2nd floor (1-2in)	SW-846 8082A	
PH-VBC-313	12C0476-14	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B047982-MS1, B047982-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Pound Hall - Cambridge, MA Sample Description: Rm 108 10-11 Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-314 Sampled: 3/15/2012 00:00

Sample ID: 12C0476-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:08	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:08	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:08	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:08	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:08	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:08	JMB
Aroclor-1260 [2]	0.92	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:08	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:08	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.3	30-150		3/16/12 17:08
Decachlorobiphenyl [2]	99.1	30-150		3/16/12 17:08
Tetrachloro-m-xylene [1]	92.4	30-150		3/16/12 17:08
Tetrachloro-m-xylene [2]	114	30-150		3/16/12 17:08

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Project Location: Pound Hall - Cambridge, MA Sample Description: Rm 103 10-11 Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-316 Sampled: 3/15/2012 00:00

Sample ID: 12C0476-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:21	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:21	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:21	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:21	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:21	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:21	JMB
Aroclor-1260 [2]	0.13	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:21	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:21	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.5	30-150		3/16/12 17:21
Decachlorobiphenyl [2]	103	30-150		3/16/12 17:21
Tetrachloro-m-xylene [1]	90.8	30-150		3/16/12 17:21
Tetrachloro-m-xylene [2]	111	30-150		3/16/12 17:21

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pound Hall - Cambridge, MA Sample Description: Stairway 10-11 Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-317 Sampled: 3/15/2012 00:00

Sample ID: 12C0476-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:33	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:33	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:33	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:33	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:33	JMB
Aroclor-1254 [2]	0.85	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:33	JMB
Aroclor-1260 [2]	0.25	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:33	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:33	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.0	30-150		3/16/12 17:33
Decachlorobiphenyl [2]	105	30-150		3/16/12 17:33
Tetrachloro-m-xylene [1]	95.1	30-150		3/16/12 17:33
Tetrachloro-m-xylene [2]	116	30-150		3/16/12 17:33

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: Pound Hall - Cambridge, MA Sample Description: 10-11 Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-319 Sampled: 3/15/2012 00:00

Sample ID: 12C0476-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:46	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:46	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:46	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:46	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:46	JMB
Aroclor-1254 [1]	0.27	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:46	JMB
Aroclor-1260 [2]	0.47	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:46	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:46	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.9	30-150		3/16/12 17:46
Decachlorobiphenyl [2]	103	30-150		3/16/12 17:46
Tetrachloro-m-xylene [1]	88.3	30-150		3/16/12 17:46
Tetrachloro-m-xylene [2]	108	30-150		3/16/12 17:46

con-test® ANALYTICAL LABORATORY

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

Project Location: Pound Hall - Cambridge, MA Sample Description: Rm 213 10-11 Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-321 Sampled: 3/15/2012 11:40

Sample ID: 12C0476-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:59	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:59	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:59	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:59	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:59	JMB
Aroclor-1254 [2]	0.46	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:59	JMB
Aroclor-1260 [2]	0.54	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:59	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:59	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 17:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.5	30-150		3/16/12 17:59
Decachlorobiphenyl [2]	109	30-150		3/16/12 17:59
Tetrachloro-m-xylene [1]	96.2	30-150		3/16/12 17:59
Tetrachloro-m-xylene [2]	119	30-150		3/16/12 17:59

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

Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBCD-322 | Sampled: 3/15/2012 11:40

Sample ID: 12C0476-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:12	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:12	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:12	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:12	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:12	JMB
Aroclor-1254 [2]	0.73	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:12	JMB
Aroclor-1260 [2]	0.68	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:12	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:12	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.5	30-150		3/16/12 18:12
Decachlorobiphenyl [2]	109	30-150		3/16/12 18:12
Tetrachloro-m-xylene [1]	96.4	30-150		3/16/12 18:12
Tetrachloro-m-xylene [2]	119	30-150		3/16/12 18:12

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

Project Location: Pound Hall - Cambridge, MA Sample Description: Rm 332 10-11 Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-324 Sampled: 3/15/2012 13:00

Sample ID: 12C0476-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:24	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:24	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:24	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:24	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:24	JMB
Aroclor-1254 [2]	0.55	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:24	JMB
Aroclor-1260 [2]	0.30	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:24	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:24	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.8	30-150		3/16/12 18:24
Decachlorobiphenyl [2]	103	30-150		3/16/12 18:24
Tetrachloro-m-xylene [1]	86.0	30-150		3/16/12 18:24
Tetrachloro-m-xylene [2]	105	30-150		3/16/12 18:24

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

Project Location: Pound Hall - Cambridge, MA Sample Description: Rm 332 Ext Window/Int Sill Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-327 Sampled: 3/15/2012 14:20

Sample ID: 12C0476-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:37	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:37	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:37	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:37	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:37	JMB
Aroclor-1254 [2]	0.44	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:37	JMB
Aroclor-1260 [2]	0.22	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:37	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:37	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.0	30-150		3/16/12 18:37
Decachlorobiphenyl [2]	102	30-150		3/16/12 18:37
Tetrachloro-m-xylene [1]	87.9	30-150		3/16/12 18:37
Tetrachloro-m-xylene [2]	108	30-150		3/16/12 18:37

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

Project Location: Pound Hall - Cambridge, MA Sample Description: Ext Window/Int Sill Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-328 Sampled: 3/15/2012 14:25

Sample ID: 12C0476-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:50	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:50	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:50	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:50	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:50	JMB
Aroclor-1254 [2]	0.40	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:50	JMB
Aroclor-1260 [2]	0.52	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:50	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:50	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 18:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.9	30-150		3/16/12 18:50
Decachlorobiphenyl [2]	101	30-150		3/16/12 18:50
Tetrachloro-m-xylene [1]	87.5	30-150		3/16/12 18:50
Tetrachloro-m-xylene [2]	108	30-150		3/16/12 18:50

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

Project Location: Pound Hall - Cambridge, MA Sample Description: Ext Window/Int Sill Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-329 Sampled: 3/15/2012 14:30

Sample ID: 12C0476-10

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:28	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:28	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:28	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:28	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:28	JMB
Aroclor-1254 [2]	0.22	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:28	JMB
Aroclor-1260 [2]	0.33	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:28	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:28	JMB
Aroclor-1268 [2]	0.79	0.091	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.8	30-150		3/16/12 19:28
Decachlorobiphenyl [2]	106	30-150		3/16/12 19:28
Tetrachloro-m-xylene [1]	95.6	30-150		3/16/12 19:28
Tetrachloro-m-xylene [2]	118	30-150		3/16/12 19:28

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

Project Location: Pound Hall - Cambridge, MA Sample Description: 2nd Flr Stairwell 9.5-10.5 Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-330 Sampled: 3/15/2012 14:15

Sample ID: 12C0476-11

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:41	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:41	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:41	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:41	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:41	JMB
Aroclor-1254 [2]	0.34	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:41	JMB
Aroclor-1260 [2]	0.64	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:41	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:41	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.6	30-150		3/16/12 19:41
Decachlorobiphenyl [2]	101	30-150		3/16/12 19:41
Tetrachloro-m-xylene [1]	88.4	30-150		3/16/12 19:41
Tetrachloro-m-xylene [2]	108	30-150		3/16/12 19:41

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

Project Location: Pound Hall - Cambridge, MA Sample Description: Type IIIA 3rd floor (1-2in) Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-312 Sampled: 3/15/2012 14:40

Sample ID: 12C0476-12

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:54	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:54	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:54	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:54	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:54	JMB
Aroclor-1254 [2]	0.67	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:54	JMB
Aroclor-1260 [2]	0.93	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:54	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:54	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 19:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.5	30-150		3/16/12 19:54
Decachlorobiphenyl [2]	101	30-150		3/16/12 19:54
Tetrachloro-m-xylene [1]	87.0	30-150		3/16/12 19:54
Tetrachloro-m-xylene [2]	107	30-150		3/16/12 19:54

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Project Location: Pound Hall - Cambridge, MA Sample Description: Type IIIB 2nd floor (1-2in) Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-308 Sampled: 3/14/2012 15:20

Sample ID: 12C0476-13

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 20:06	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 20:06	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 20:06	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 20:06	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 20:06	JMB
Aroclor-1254 [2]	0.35	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 20:06	JMB
Aroclor-1260 [2]	0.80	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 20:06	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 20:06	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/15/12	3/16/12 20:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	100	30-150		3/16/12 20:06
Decachlorobiphenyl [2]	115	30-150		3/16/12 20:06
Tetrachloro-m-xylene [1]	100	30-150		3/16/12 20:06
Tetrachloro-m-xylene [2]	125	30-150		3/16/12 20:06

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Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12C0476

Date Received: 3/15/2012

Field Sample #: PH-VBC-313 | Sampled: 3/15/2012 14:50

Sample ID: 12C0476-14

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/15/12	3/17/12 13:31	JMB
Aroclor-1221 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/15/12	3/17/12 13:31	JMB
Aroclor-1232 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/15/12	3/17/12 13:31	JMB
Aroclor-1242 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/15/12	3/17/12 13:31	JMB
Aroclor-1248 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/15/12	3/17/12 13:31	JMB
Aroclor-1254 [2]	0.47	0.20	mg/Kg	2		SW-846 8082A	3/15/12	3/17/12 13:31	JMB
Aroclor-1260 [2]	1.4	0.20	mg/Kg	2		SW-846 8082A	3/15/12	3/17/12 13:31	JMB
Aroclor-1262 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/15/12	3/17/12 13:31	JMB
Aroclor-1268 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	3/15/12	3/17/12 13:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.8	30-150		3/17/12 13:31
Decachlorobiphenyl [2]	102	30-150		3/17/12 13:31
Tetrachloro-m-xylene [1]	91.0	30-150		3/17/12 13:31
Tetrachloro-m-xylene [2]	106	30-150		3/17/12 13:31

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0476-01 [PH-VBC-314]	B047982	2.10	10.0	03/15/12
12C0476-02 [PH-VBC-316]	B047982	2.20	10.0	03/15/12
12C0476-03 [PH-VBC-317]	B047982	2.00	10.0	03/15/12
12C0476-04 [PH-VBC-319]	B047982	2.00	10.0	03/15/12
12C0476-05 [PH-VBC-321]	B047982	2.10	10.0	03/15/12
12C0476-06 [PH-VBCD-322]	B047982	2.20	10.0	03/15/12
12C0476-07 [PH-VBC-324]	B047982	2.00	10.0	03/15/12
12C0476-08 [PH-VBC-327]	B047982	2.00	10.0	03/15/12
12C0476-09 [PH-VBC-328]	B047982	2.10	10.0	03/15/12
12C0476-10 [PH-VBC-329]	B047982	2.20	10.0	03/15/12
12C0476-11 [PH-VBC-330]	B047982	2.00	10.0	03/15/12
12C0476-12 [PH-VBC-312]	B047982	2.00	10.0	03/15/12
12C0476-13 [PH-VBC-308]	B047982	2.00	10.0	03/15/12
12C0476-14 [PH-VBC-313]	B047982	2.00	10.0	03/15/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B047982 - SW-846 3540C										
Blank (B047982-BLK1)				Prepared: 03/15/12 Analyzed: 03/16/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.953*		mg/Kg	1.00		95.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.942*		mg/Kg	1.00		94.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.16*		mg/Kg	1.00		116	30-150			
LCS (B047982-BS1)				Prepared: 03/15/12 Analyzed: 03/16/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250		94.8	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		98.2	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140			
Surrogate: Decachlorobiphenyl	*0.921*		mg/Kg	1.00		92.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.888*		mg/Kg	1.00		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		mg/Kg	1.00		109	30-150			
LCS Dup (B047982-BSD1)				Prepared: 03/15/12 Analyzed: 03/16/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		103	40-140	7.88	30	
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		120	40-140	8.16	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		105	40-140	6.20	30	
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250		119	40-140	6.68	30	
Surrogate: Decachlorobiphenyl	*0.961*		mg/Kg	1.00		96.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.936*		mg/Kg	1.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.15*		mg/Kg	1.00		115	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B047982 - SW-846 3540C											
Matrix Spike (B047982-MS1)		**Source: 12C0476-01**		Prepared: 03/15/12 Analyzed: 03/16/12							
Aroclor-1016	0.26	0.10	mg/Kg	0.250	0.0	105		40-140			
Aroclor-1016 [2C]	0.32	0.10	mg/Kg	0.250	0.0	129		40-140			
Aroclor-1260	1.3	0.10	mg/Kg	0.250	0.78	**212**	*	40-140			MS-19
Aroclor-1260 [2C]	1.6	0.10	mg/Kg	0.250	0.92	**281**	*	40-140			MS-19
Surrogate: Decachlorobiphenyl	*0.888*		mg/Kg	1.00		88.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100		30-150			
Surrogate: Tetrachloro-m-xylene	*0.877*		mg/Kg	1.00		87.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		mg/Kg	1.00		109		30-150			
Matrix Spike Dup (B047982-MSD1)		**Source: 12C0476-01**		Prepared: 03/15/12 Analyzed: 03/16/12							
Aroclor-1016	0.27	0.10	mg/Kg	0.250	0.0	107		40-140	1.76	50	
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250	0.0	132		40-140	2.67	50	
Aroclor-1260	1.4	0.10	mg/Kg	0.250	0.78	**229**	*	40-140	3.34	50	MS-19
Aroclor-1260 [2C]	1.7	0.10	mg/Kg	0.250	0.92	**297**	*	40-140	2.45	50	MS-19
Surrogate: Decachlorobiphenyl	*0.910*		mg/Kg	1.00		91.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102		30-150			
Surrogate: Tetrachloro-m-xylene	*0.884*		mg/Kg	1.00		88.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	1.00		110		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

F 1 of 1 2

12C0476

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Law School - Pound Hall
Sampled By: Kim Rinard (413) 531-4455 + Kevin Delaney
Project Proposal Provided? (for billing purposes) ☑ yes 2011/211 proposal date

Telephone:
Project #: 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax #~~ jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C									# of Containers	** Preservation	***Container Code
01	PH-VBC-314	3/15/12				C	U	✓				Rm 108		10-11					
02	PH-VBC-316	↓				C	U	✓				Rm 103		10-11					
03	PH-VBC-317	↓				C	U	✓				Stairwell 4		10-11					
04	PH-VBC-319	↓				C	U	✓						10-11					
05	PH-VBC-321	3/15/12	1140			C	U	✓				Rm 213		10-11					
06	PH-VBC-322	↓	1140			C	U	✓											
07	PH-VBC-324	↓	1300			C	U	✓				Rm 332		10-11					
08	PH-VBC-327	3/15/12	1420			C	U	✓				Rm 332		Ext Window/Int Sill					
09	PH-VBC-328		1425			C	U	✓						↓		↓			
10	PH-VBC-329		1430			C	U	✓						↓					

Comments: ① EPA 8082 PCB's via 3540C Soxhlet ② RL ≤ 1mg/kg ③ C = concrete ④ Primary samples - Run 48H-TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Dissolved Metals
○ Field Filtered
○ Lab to Filter

Relinquished by: (signature)	Date/Time:
(K Rinard)	3/15/12 1535
Received by: (signature)	Date/Time:
Paul Racent	3/15/12 1535
Relinquished by: (signature)	Date/Time:
Paul Racent	3/15/12 18:15
Received by: (signature)	Date/Time:
C. Clough-Segall	3/15/12 18:15

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH† (ANALYZE)
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12C0476

Company Name: Woodard + Curran
Address: 41 Hutchins Drive, Portland, ME
Attention: J Hamel, A. Wallace
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C	
11	PH-VBC-330	3/15/12	1415			C	UNK	✓	2nd Flr Stairwell 9.5-10.5
12	PH-VBC-312	3/15/12	1440					✓	Type IIIA 3rd floor (1-2")
—	PH-VBC-~~308~~ ~~313~~		1520						
13	PH-VBC-~~308~~ KAR	3/14/12	1520						Type IIIB 2nd flr (1-2")
14	PH-VBC-313	3/15/12	1450						

3/15/12

KAR

Comments: ① EPA 8082 PCB's via 3540C Soxhlet ② RL ≤ 1mg/kg ③ C = concrete ④ Run - 48 Hr TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

# of Containers	1
** Preservation	I
***Container Code	G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature) K. Rinard (K. Rinard)	Date/Time: 3/15/12 1535
Received by: (signature) Paul Racicot	Date/Time: 3/15/12 1535
Relinquished by: (signature) Paul Racicot	Date/Time: 3/15/12 18:15
Received by: (signature) C. Clough-Sayall 2.0°C	Date/Time: 3/15/12 18:15

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S **DATE:** 3/15/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.0°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	14
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0476
Project Location: Pound Hall - Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0476-01 thru 12C0476-14

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 03/19/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 20, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ - Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0524

Enclosed are results of analyses for samples received by the laboratory on March 16, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/20/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0524

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

PROJECT LOCATION: Harvard Univ - Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-333	12C0524-01	Concrete		SW-846 8082A	
PH-VBC-334	12C0524-02	Concrete		SW-846 8082A	
PH-VBC-335	12C0524-03	Concrete		SW-846 8082A	
PH-VBC-336	12C0524-04	Concrete		SW-846 8082A	
PH-VBC-307	12C0524-06	Concrete		SW-846 8082A	
PH-VBCD-339	12C0524-07	Concrete		SW-846 8082A	
PH-VBC-341	12C0524-08	Concrete		SW-846 8082A	
PH-VBC-343	12C0524-09	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B048075-MS1, B048075-MSD1

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

12C0524-09[PH-VBC-343]

Sample contains two incompletely resolved aroclors. Aroclor with the highest value is reported.

Analyte & Samples(s) Qualified:

Aroclor-1254, Aroclor-1254 [2C]

12C0524-01[PH-VBC-333], 12C0524-02[PH-VBC-334], 12C0524-03[PH-VBC-335], 12C0524-04[PH-VBC-336], 12C0524-06[PH-VBC-307], 12C0524-07[PH-VBCD-339], 12C0524-08[PH-VBC-341]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12C0524

Date Received: 3/16/2012

Field Sample #: PH-VBC-333 | Sampled: 3/16/2012 11:15

Sample ID: 12C0524-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:03	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:03	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:03	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:03	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:03	MJC
Aroclor-1254 [2]	1.1	0.10	mg/Kg	1	Z-01	SW-846 8082A	3/16/12	3/19/12 18:03	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:03	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:03	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:03	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		3/19/12 18:03
Decachlorobiphenyl [2]	92.3	30-150		3/19/12 18:03
Tetrachloro-m-xylene [1]	110	30-150		3/19/12 18:03
Tetrachloro-m-xylene [2]	117	30-150		3/19/12 18:03

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Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12C0524

Date Received: 3/16/2012

Field Sample #: PH-VBC-334 | Sampled: 3/16/2012 11:20

Sample ID: 12C0524-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:16	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:16	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:16	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:16	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:16	MJC
Aroclor-1254 [1]	0.82	0.095	mg/Kg	1	Z-01	SW-846 8082A	3/16/12	3/19/12 18:16	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:16	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:16	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:16	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.6	30-150		3/19/12 18:16
Decachlorobiphenyl [2]	90.7	30-150		3/19/12 18:16
Tetrachloro-m-xylene [1]	112	30-150		3/19/12 18:16
Tetrachloro-m-xylene [2]	117	30-150		3/19/12 18:16

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Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12C0524

Date Received: 3/16/2012

Field Sample #: PH-VBC-335 | Sampled: 3/16/2012 11:45

Sample ID: 12C0524-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:29	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:29	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:29	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:29	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:29	MJC
Aroclor-1254 [1]	0.56	0.091	mg/Kg	1	Z-01	SW-846 8082A	3/16/12	3/19/12 18:29	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:29	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:29	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:29	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.7	30-150		3/19/12 18:29
Decachlorobiphenyl [2]	83.3	30-150		3/19/12 18:29
Tetrachloro-m-xylene [1]	111	30-150		3/19/12 18:29
Tetrachloro-m-xylene [2]	117	30-150		3/19/12 18:29

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Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12C0524

Date Received: 3/16/2012

Field Sample #: PH-VBC-336 | Sampled: 3/16/2012 12:05

Sample ID: 12C0524-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:42	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:42	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:42	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:42	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:42	MJC
Aroclor-1254 [2]	0.53	0.10	mg/Kg	1	Z-01	SW-846 8082A	3/16/12	3/19/12 18:42	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:42	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:42	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:42	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	108	30-150		3/19/12 18:42
Decachlorobiphenyl [2]	97.2	30-150		3/19/12 18:42
Tetrachloro-m-xylene [1]	108	30-150		3/19/12 18:42
Tetrachloro-m-xylene [2]	114	30-150		3/19/12 18:42

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Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12C0524

Date Received: 3/16/2012

Field Sample #: PH-VBC-307 | Sampled: 3/16/2012 12:25

Sample ID: 12C0524-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:55	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:55	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:55	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:55	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:55	MJC
Aroclor-1254 [2]	0.43	0.10	mg/Kg	1	Z-01	SW-846 8082A	3/16/12	3/19/12 18:55	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:55	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:55	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 18:55	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	109	30-150		3/19/12 18:55
Decachlorobiphenyl [2]	97.8	30-150		3/19/12 18:55
Tetrachloro-m-xylene [1]	110	30-150		3/19/12 18:55
Tetrachloro-m-xylene [2]	115	30-150		3/19/12 18:55

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Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12C0524

Date Received: 3/16/2012

Field Sample #: PH-VBCD-339 | Sampled: 3/16/2012 11:45

Sample ID: 12C0524-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:08	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:08	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:08	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:08	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:08	MJC
Aroclor-1254 [1]	0.58	0.10	mg/Kg	1	Z-01	SW-846 8082A	3/16/12	3/19/12 19:08	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:08	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:08	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:08	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.6	30-150		3/19/12 19:08
Decachlorobiphenyl [2]	90.1	30-150		3/19/12 19:08
Tetrachloro-m-xylene [1]	110	30-150		3/19/12 19:08
Tetrachloro-m-xylene [2]	116	30-150		3/19/12 19:08

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Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12C0524

Date Received: 3/16/2012

Field Sample #: PH-VBC-341 | Sampled: 3/16/2012 00:00

Sample ID: 12C0524-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:21	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:21	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:21	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:21	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:21	MJC
Aroclor-1254 [2]	0.16	0.10	mg/Kg	1	Z-01	SW-846 8082A	3/16/12	3/19/12 19:21	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:21	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:21	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:21	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		3/19/12 19:21
Decachlorobiphenyl [2]	96.3	30-150		3/19/12 19:21
Tetrachloro-m-xylene [1]	111	30-150		3/19/12 19:21
Tetrachloro-m-xylene [2]	117	30-150		3/19/12 19:21

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Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12C0524

Date Received: 3/16/2012

Field Sample #: PH-VBC-343 | Sampled: 3/16/2012 00:00

Sample ID: 12C0524-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:34	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:34	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:34	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:34	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:34	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:34	MJC
Aroclor-1260 [2]	1.0	0.10	mg/Kg	1	O-03	SW-846 8082A	3/16/12	3/19/12 19:34	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:34	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/16/12	3/19/12 19:34	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.4	30-150		3/19/12 19:34
Decachlorobiphenyl [2]	88.9	30-150		3/19/12 19:34
Tetrachloro-m-xylene [1]	106	30-150		3/19/12 19:34
Tetrachloro-m-xylene [2]	112	30-150		3/19/12 19:34

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0524-01 [PH-VBC-333]	B048075	2.00	10.0	03/16/12
12C0524-02 [PH-VBC-334]	B048075	2.10	10.0	03/16/12
12C0524-03 [PH-VBC-335]	B048075	2.20	10.0	03/16/12
12C0524-04 [PH-VBC-336]	B048075	2.00	10.0	03/16/12
12C0524-06 [PH-VBC-307]	B048075	2.00	10.0	03/16/12
12C0524-07 [PH-VBCD-339]	B048075	2.00	10.0	03/16/12
12C0524-08 [PH-VBC-341]	B048075	2.00	10.0	03/16/12
12C0524-09 [PH-VBC-343]	B048075	2.00	10.0	03/16/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048075 - SW-846 3540C										
Blank (B048075-BLK1)				Prepared: 03/16/12 Analyzed: 03/19/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.977*		mg/Kg	1.00		97.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.26*		mg/Kg	1.00		126	30-150			
LCS (B048075-BS1)				Prepared: 03/16/12 Analyzed: 03/19/12						
Aroclor-1016	0.30	0.10	mg/Kg	0.250		121	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140			
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.982*		mg/Kg	1.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.23*		mg/Kg	1.00		123	30-150			
LCS Dup (B048075-BSD1)				Prepared: 03/16/12 Analyzed: 03/19/12						
Aroclor-1016	0.31	0.10	mg/Kg	0.250		123	40-140	1.31	30	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140	0.630	30	
Aroclor-1260	0.27	0.10	mg/Kg	0.250		108	40-140	3.75	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140	2.90	30	
Surrogate: Decachlorobiphenyl	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.26*		mg/Kg	1.00		126	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B048075 - SW-846 3540C											
Matrix Spike (B048075-MS1)		**Source: 12C0524-01**		Prepared: 03/16/12 Analyzed: 03/19/12							
Aroclor-1016	0.37	0.10	mg/Kg	0.250	0.0	**148**	*	40-140			MS-21
Aroclor-1016 [2C]	0.53	0.10	mg/Kg	0.250	0.0	**212**	*	40-140			MS-21
Aroclor-1260	1.1	0.10	mg/Kg	0.250	0.0	**424**	*	40-140			MS-21
Aroclor-1260 [2C]	0.99	0.10	mg/Kg	0.250	0.0	**394**	*	40-140			MS-21
Surrogate: Decachlorobiphenyl	*0.767*		mg/Kg	1.00		76.7		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.702*		mg/Kg	1.00		70.2		30-150			
Surrogate: Tetrachloro-m-xylene	*1.12*		mg/Kg	1.00		112		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.19*		mg/Kg	1.00		119		30-150			
Matrix Spike Dup (B048075-MSD1)		**Source: 12C0524-01**		Prepared: 03/16/12 Analyzed: 03/19/12							
Aroclor-1016	0.31	0.10	mg/Kg	0.250	0.0	123		40-140	18.3	50	
Aroclor-1016 [2C]	0.48	0.10	mg/Kg	0.250	0.0	**192**	*	40-140	10.1	50	MS-21
Aroclor-1260	0.92	0.10	mg/Kg	0.250	0.0	**366**	*	40-140	14.7	50	MS-21
Aroclor-1260 [2C]	0.85	0.10	mg/Kg	0.250	0.0	**339**	*	40-140	15.1	50	MS-21
Surrogate: Decachlorobiphenyl	*1.08*		mg/Kg	1.00		108		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.973*		mg/Kg	1.00		97.3		30-150			
Surrogate: Tetrachloro-m-xylene	*1.09*		mg/Kg	1.00		109		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.16*		mg/Kg	1.00		116		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.
O-03	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.
Z-01	Sample contains two incompletely resolved aroclors. Aroclor with the highest value is reported.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12C0524

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A. Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email:
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C	Hold	# of Containers / ** Preservation / ***Container Code
										I / I / 2oz
01	PH-VBC-333	3/16/12	1115			C	Unk	✓		
02	PH-VBC-334		1120					✓		
03	PH-VBC-335		~~1205~~ 1145					✓		
04	PH-VBC-336		1205					✓		
05	PH-VBC-337		1215					✓	Hold	
06	PH-VBC-~~307~~	3/16/12	1225					✓		
07	PH-VBCD-339		1145					✓		
08	PH-VBC-341		xx					✓		
09	PH-VBC-343		xx					✓		

3/16/12

Comments: ① EPA 8082/3540C Soxhlet ② RL's ≤ 1mg/kg ③ C=CONCRETE

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time: 3/16/12 1510
Received by: (signature)	Date/Time: 3/16/12 1510
Relinquished by: (signature)	Date/Time: 3/16/12 520
Received by: (signature) 4.3°C	Date/Time: 3/16/12 17:20

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ 48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA Accredited Laboratory Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 3/16/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No **N/A**

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.3 °C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	9
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12C0524-01 PH-VBC-333

Analyte	Results		%RPD
Aroclor-1254 [2C]	1.1	0.94468	15.2
Surrogates			
Decachlorobiphenyl	1.02	0.92297	9.99
Tetrachloro-m-xylene	1.10	1.168805	6.07

12C0524-02 PH-VBC-334

Analyte	Results		%RPD
Aroclor-1254	0.82	0.8140667	0.726
Surrogates			
Decachlorobiphenyl	0.948	0.8642572	9.24
Tetrachloro-m-xylene	1.07	1.118205	4.41

12C0524-03 PH-VBC-335

Analyte	Results		%RPD
Aroclor-1254	0.56	0.5464545	2.45
Surrogates			
Decachlorobiphenyl	0.834	0.7574	9.63
Tetrachloro-m-xylene	1.01	1.063177	5.13

12C0524-04 PH-VBC-336

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.53	0.479025	10.1
Surrogates			
Decachlorobiphenyl	1.08	0.97234	10.5
Tetrachloro-m-xylene	1.08	1.138925	5.31

12C0524-06 PH-VBC-307

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.43	0.347945	21.1
Surrogates			
Decachlorobiphenyl	1.09	0.978395	10.8
Tetrachloro-m-xylene	1.10	1.150715	4.51

12C0524-07 PH-VBCD-339

Analyte	Results		%RPD
Aroclor-1254	0.58	0.534735	8.12
Surrogates			
Decachlorobiphenyl	0.986	0.900605	9.05
Tetrachloro-m-xylene	1.10	1.160975	5.39

12C0524-08 PH-VBC-341

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.16	0.13088	20
Surrogates			
Decachlorobiphenyl	1.05	0.963225	8.62
Tetrachloro-m-xylene	1.11	1.171955	5.43

12C0524-09 PH-VBC-343

Analyte	Results		%RPD
Aroclor-1260 [2C]	1.0	1.00074	0.074
Surrogates			
Decachlorobiphenyl	0.974	0.88866	9.16
Tetrachloro-m-xylene	1.06	1.12058	5.56

B048075-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.00	0.97696	2.33
Tetrachloro-m-xylene	1.12	1.25911	11.7

B048075-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.30	0.279495	7.08
Aroclor-1260	0.26	0.2797	7.3
Surrogates			
Decachlorobiphenyl	1.00	0.981715	1.85
Tetrachloro-m-xylene	1.09	1.234625	12.4

B048075-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.31	0.28126	9.72
Aroclor-1260	0.27	0.287925	6.43
Surrogates			
Tetrachloro-m-xylene	1.12	1.25577	11.4
Decachlorobiphenyl	1.12	1.07024	4.54

B048075-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.37	0.52977	35.5
Aroclor-1260	1.1	0.985745	11
Surrogates			
Decachlorobiphenyl	0.767	0.70226	8.81
Tetrachloro-m-xylene	1.12	1.188645	5.95

B048075-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.31	0.47881	42.8
Aroclor-1260	0.92	0.84742	8.21
Surrogates			
Tetrachloro-m-xylene	1.09	1.15576	5.86
Decachlorobiphenyl	1.08	0.973445	10.4

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0524
Project Location: Harvard Univ - Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0524-01 thru 12C0524-09

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/20/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 22, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ - Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0570

Enclosed are results of analyses for samples received by the laboratory on March 20, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/22/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0570

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

PROJECT LOCATION: Harvard Univ - Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-337	12C0570-01	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harvard Univ - Pound Hall
Sample Description:
Work Order: 12C0570

Date Received: 3/20/2012

Field Sample #: PH-VBC-337
Sampled: 3/16/2012 12:15

Sample ID: 12C0570-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:42	MJC
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:42	MJC
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:42	MJC
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:42	MJC
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:42	MJC
Aroclor-1254 [2]	0.16	0.087	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:42	MJC
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:42	MJC
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:42	MJC
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:42	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	113	30-150		3/21/12 14:42
Decachlorobiphenyl [2]	98.9	30-150		3/21/12 14:42
Tetrachloro-m-xylene [1]	111	30-150		3/21/12 14:42
Tetrachloro-m-xylene [2]	117	30-150		3/21/12 14:42

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0570-01 [PH-VBC-337]	B048225	2.30	10.0	03/20/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048225 - SW-846 3540C										
Blank (B048225-BLK1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	ND	0.091	mg/Kg							
Aroclor-1016 [2C]	ND	0.091	mg/Kg							
Aroclor-1221	ND	0.091	mg/Kg							
Aroclor-1221 [2C]	ND	0.091	mg/Kg							
Aroclor-1232	ND	0.091	mg/Kg							
Aroclor-1232 [2C]	ND	0.091	mg/Kg							
Aroclor-1242	ND	0.091	mg/Kg							
Aroclor-1242 [2C]	ND	0.091	mg/Kg							
Aroclor-1248	ND	0.091	mg/Kg							
Aroclor-1248 [2C]	ND	0.091	mg/Kg							
Aroclor-1254	ND	0.091	mg/Kg							
Aroclor-1254 [2C]	ND	0.091	mg/Kg							
Aroclor-1260	ND	0.091	mg/Kg							
Aroclor-1260 [2C]	ND	0.091	mg/Kg							
Aroclor-1262	ND	0.091	mg/Kg							
Aroclor-1262 [2C]	ND	0.091	mg/Kg							
Aroclor-1268	ND	0.091	mg/Kg							
Aroclor-1268 [2C]	ND	0.091	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.912*		mg/Kg	0.909		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.801*		mg/Kg	0.909		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.954*		mg/Kg	0.909		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	0.909		113	30-150			
LCS (B048225-BS1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	0.23	0.095	mg/Kg	0.238		98.6	40-140			
Aroclor-1016 [2C]	0.24	0.095	mg/Kg	0.238		99.7	40-140			
Aroclor-1260	0.23	0.095	mg/Kg	0.238		98.6	40-140			
Aroclor-1260 [2C]	0.24	0.095	mg/Kg	0.238		102	40-140			
Surrogate: Decachlorobiphenyl	*0.985*		mg/Kg	0.952		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.877*		mg/Kg	0.952		92.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.03*		mg/Kg	0.952		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	0.952		115	30-150			
LCS Dup (B048225-BSD1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	0.23	0.095	mg/Kg	0.238		96.4	40-140	2.20	30	
Aroclor-1016 [2C]	0.24	0.095	mg/Kg	0.238		100	40-140	0.702	30	
Aroclor-1260	0.24	0.095	mg/Kg	0.238		102	40-140	3.83	30	
Aroclor-1260 [2C]	0.25	0.095	mg/Kg	0.238		103	40-140	1.36	30	
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	0.952		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.899*		mg/Kg	0.952		94.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.988*		mg/Kg	0.952		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	0.952		110	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

12C0570

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

~~12C0524~~ (MK)

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email:
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C											
01	PH-VBC-333	3/16/12	1115			C	Unk	✓											
02	PH-VBC-334	↓	1120					✓											
03	PH-VBC-335	↓	~~1205~~ 1145					✓											
04	PH-VBC-336	↓	1205					✓											
⊛ 05	PH-VBC-337	↓	1215					✓	Hold										
06	PH-VBC-307	3/16/12	1225					✓											
07	PH-VBCD-339	↓	1145					✓											
08	PH-VBC-341	↓	xx					✓											
09	PH-VBC-343	↓	xx					✓											

3/16/12

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082/3540C Soxhlet ② RL's ≤ 1mg/kg ③ C=CONCRETE
⊛ Analyze per attached email MEC 3/20/2012

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
KAW	3/16/12 1510
Received by: (signature)	Date/Time: 3/16/12 1510
Relinquished by: (signature)	Date/Time: 3/16/12 520
Received by: (signature) 4.3°C C. Clough-Segall	Date/Time: 3/16/12 17:20

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: C.C.S. DATE: 3/16/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.3 °C

5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	9
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277
Rev. 2 Sept 2011

Meghan Kelley

From: Amy Wallace [awallace@woodardcurran.com]
Sent: Monday, March 19, 2012 7:30 PM
To: mkelley@contestlabs.com
Subject: Pound Hall contingency samples to release for analysis

Hi Meghan

Can you please take the following four samples off of hold, and release them for a 48-hour analysis? I believe these were all collected on 3/15 or 3/16:

PH-VBC-318
PH-VBC-331
PH-VBC-332
PH-VBC-337

Thank you,
Amy

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0570
Project Location: Harvard Univ - Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0570-01

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/22/12

12C0471-02 PH-VBC-318

Analyte		Results	%RPD
Aroclor-1254 [2C]	0.83	0.7741191	6.97
Surrogates			
Decachlorobiphenyl	1.15	0.9801	16
Tetrachloro-m-xylene	1.04	1.07461	3.27

12C0570-01 PH-VBC-337

Analyte		Results	%RPD
Aroclor-1254 [2C]	0.16	0.1301739	20.6
Surrogates			
Decachlorobiphenyl	0.983	0.8597739	13.4
Tetrachloro-m-xylene	0.969	1.0168	4.81

B048225-BLK1 Blank

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.912	0.8013727	12.9
Tetrachloro-m-xylene	0.954	1.02405	7.08

B048225-BS1 LCS

Analyte		Results	%RPD
Aroclor-1016	0.23	0.2372619	3.11
Aroclor-1260	0.23	0.2425143	5.3
Surrogates			
Tetrachloro-m-xylene	1.03	1.098814	6.47
Decachlorobiphenyl	0.985	0.8767429	11.6

B048225-BSD1 LCS Dup

Analyte		Results	%RPD
Aroclor-1260	0.24	0.2458238	2.4
Aroclor-1016	0.23	0.2389333	3.81
Surrogates			
Decachlorobiphenyl	1.02	0.8992905	12.6
Tetrachloro-m-xylene	0.988	1.046895	5.79

B048225-MS1 Matrix Spike

Analyte		Results	%RPD
Aroclor-1016	0.25	0.3160636	23.3
Aroclor-1260	0.63	0.6033181	4.33
Surrogates			
Decachlorobiphenyl	0.936	0.8317454	11.8
Tetrachloro-m-xylene	1.02	1.106873	8.17

B048225-MSD1 Matrix Spike Dup

Analyte		Results	%RPD
Aroclor-1016	0.25	0.3145714	22.9
Aroclor-1260	0.54	0.5279524	2.26
Surrogates			
Tetrachloro-m-xylene	1.07	1.163476	8.37
Decachlorobiphenyl	0.960	0.8524524	11.9

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March 22, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ-Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0603

Enclosed are results of analyses for samples received by the laboratory on March 20, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/22/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0603

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

PROJECT LOCATION: Harvard Univ-Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-344	12C0603-01	Concrete	3rd flr (IB) at 14-15in	SW-846 8082A	
PH-VBB-347	12C0603-02	Brick	5th flr, SW, 6th brick	SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported. Possibly contains Aroclor 1260 as well. See attached chromatogram.

Analyte & Samples(s) Qualified:

Aroclor-1254, Aroclor-1254 [2C]

12C0603-01[PH-VBC-344]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harvard Univ-Pound Hall | Sample Description: 3rd flr (IB) at 14-15in | Work Order: 12C0603

Date Received: 3/20/2012

Field Sample #: PH-VBC-344 | Sampled: 3/20/2012 13:20

Sample ID: 12C0603-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:55	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:55	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:55	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:55	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:55	MJC
Aroclor-1254 [2]	0.59	0.095	mg/Kg	1	O-19	SW-846 8082A	3/20/12	3/21/12 14:55	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:55	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:55	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 14:55	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		3/21/12 14:55
Decachlorobiphenyl [2]	93.1	30-150		3/21/12 14:55
Tetrachloro-m-xylene [1]	108	30-150		3/21/12 14:55
Tetrachloro-m-xylene [2]	115	30-150		3/21/12 14:55

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Project Location: Harvard Univ-Pound Hall | Sample Description: 5th flr, SW, 6th brick | Work Order: 12C0603

Date Received: 3/20/2012

Field Sample #: PH-VBB-347 | Sampled: 3/20/2012 14:30

Sample ID: 12C0603-02

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:08	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:08	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:08	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:08	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:08	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:08	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:08	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:08	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:08	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.3	30-150		3/21/12 15:08
Decachlorobiphenyl [2]	86.0	30-150		3/21/12 15:08
Tetrachloro-m-xylene [1]	108	30-150		3/21/12 15:08
Tetrachloro-m-xylene [2]	117	30-150		3/21/12 15:08

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0603-01 [PH-VBC-344]	B048225	2.10	10.0	03/20/12
12C0603-02 [PH-VBB-347]	B048225	2.10	10.0	03/20/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048225 - SW-846 3540C										
Blank (B048225-BLK1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	ND	0.091	mg/Kg							
Aroclor-1016 [2C]	ND	0.091	mg/Kg							
Aroclor-1221	ND	0.091	mg/Kg							
Aroclor-1221 [2C]	ND	0.091	mg/Kg							
Aroclor-1232	ND	0.091	mg/Kg							
Aroclor-1232 [2C]	ND	0.091	mg/Kg							
Aroclor-1242	ND	0.091	mg/Kg							
Aroclor-1242 [2C]	ND	0.091	mg/Kg							
Aroclor-1248	ND	0.091	mg/Kg							
Aroclor-1248 [2C]	ND	0.091	mg/Kg							
Aroclor-1254	ND	0.091	mg/Kg							
Aroclor-1254 [2C]	ND	0.091	mg/Kg							
Aroclor-1260	ND	0.091	mg/Kg							
Aroclor-1260 [2C]	ND	0.091	mg/Kg							
Aroclor-1262	ND	0.091	mg/Kg							
Aroclor-1262 [2C]	ND	0.091	mg/Kg							
Aroclor-1268	ND	0.091	mg/Kg							
Aroclor-1268 [2C]	ND	0.091	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.912*		mg/Kg	0.909		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.801*		mg/Kg	0.909		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.954*		mg/Kg	0.909		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	0.909		113	30-150			
LCS (B048225-BS1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	0.23	0.095	mg/Kg	0.238		98.6	40-140			
Aroclor-1016 [2C]	0.24	0.095	mg/Kg	0.238		99.7	40-140			
Aroclor-1260	0.23	0.095	mg/Kg	0.238		98.6	40-140			
Aroclor-1260 [2C]	0.24	0.095	mg/Kg	0.238		102	40-140			
Surrogate: Decachlorobiphenyl	*0.985*		mg/Kg	0.952		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.877*		mg/Kg	0.952		92.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.03*		mg/Kg	0.952		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	0.952		115	30-150			
LCS Dup (B048225-BSD1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	0.23	0.095	mg/Kg	0.238		96.4	40-140	2.20	30	
Aroclor-1016 [2C]	0.24	0.095	mg/Kg	0.238		100	40-140	0.702	30	
Aroclor-1260	0.24	0.095	mg/Kg	0.238		102	40-140	3.83	30	
Aroclor-1260 [2C]	0.25	0.095	mg/Kg	0.238		103	40-140	1.36	30	
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	0.952		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.899*		mg/Kg	0.952		94.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.988*		mg/Kg	0.952		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	0.952		110	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-19	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported. Possibly contains Aroclor 1260 as well. See attached chromatogram.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12C0603

Company Name: Woodard + Curran
Address: 41 Hutchins Drive, Portland, ME
Attention: J Hamel A. Wallace
Project Location: Hanv. Univ - Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax~~ #: jhamel@woodardcurran.com
Email: awallace@ " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 2011 12 11 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C											
01	PH-VBC-344		1320			C	U	✓		3rd Flr (IB) @ 14-15"									
02	PH-VBB-347		1430			B	U	✓		5th Flr, SW, 6th brick									
		3/20/12																	

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082/3540C Soxhlet ② RL ≤1mg/kg ③ C = Concrete ③ = Brick ④ HOLD - DO NOT ANALYZE

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	3/20/12 1500
Received by: (signature) [signature]	Date/Time: 3/20/12 1510
Relinquished by: (signature) [signature]	Date/Time: 3/20/12 1720
Received by: (signature) C. Clough-Segall 3.3°C	Date/Time: 3/20/12 17:20

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤1mg/kg

Is your project MCP or RCP ?
✓ ○ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene Fire Advancing for Health

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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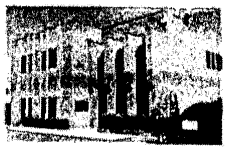
Sample Receipt Checklist



CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C-S. **DATE:** 3/20/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.3°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

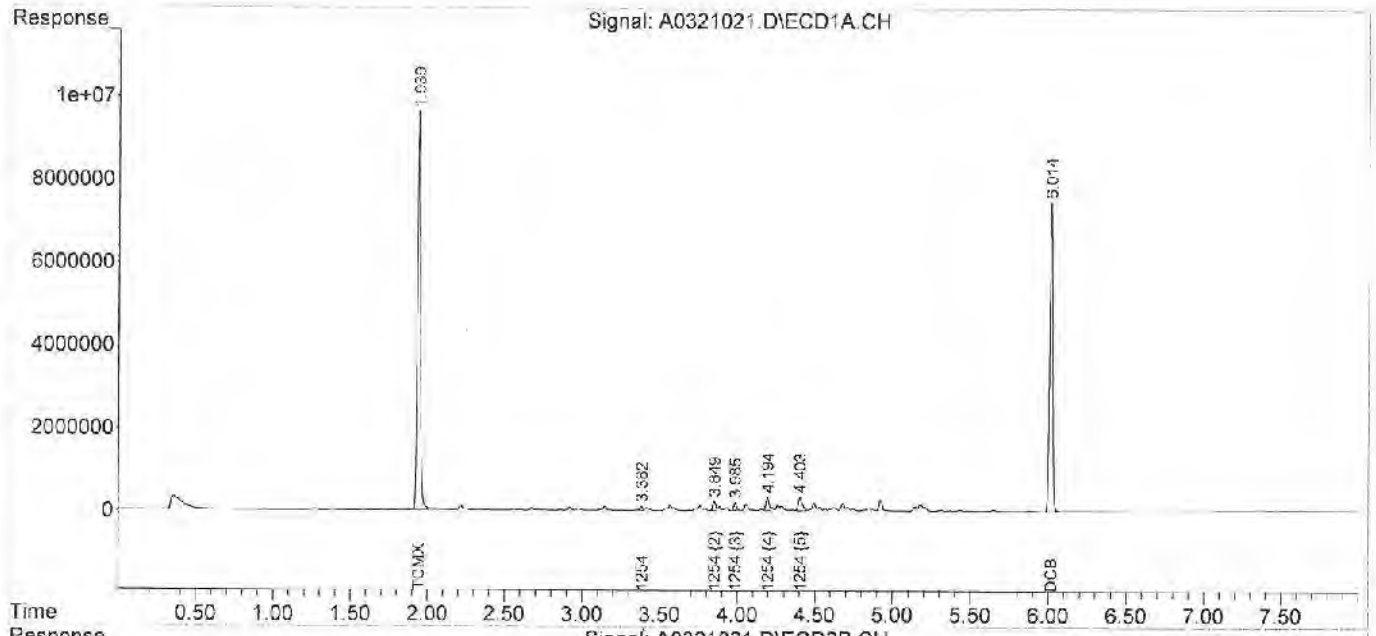
Rev. 1 May 2011

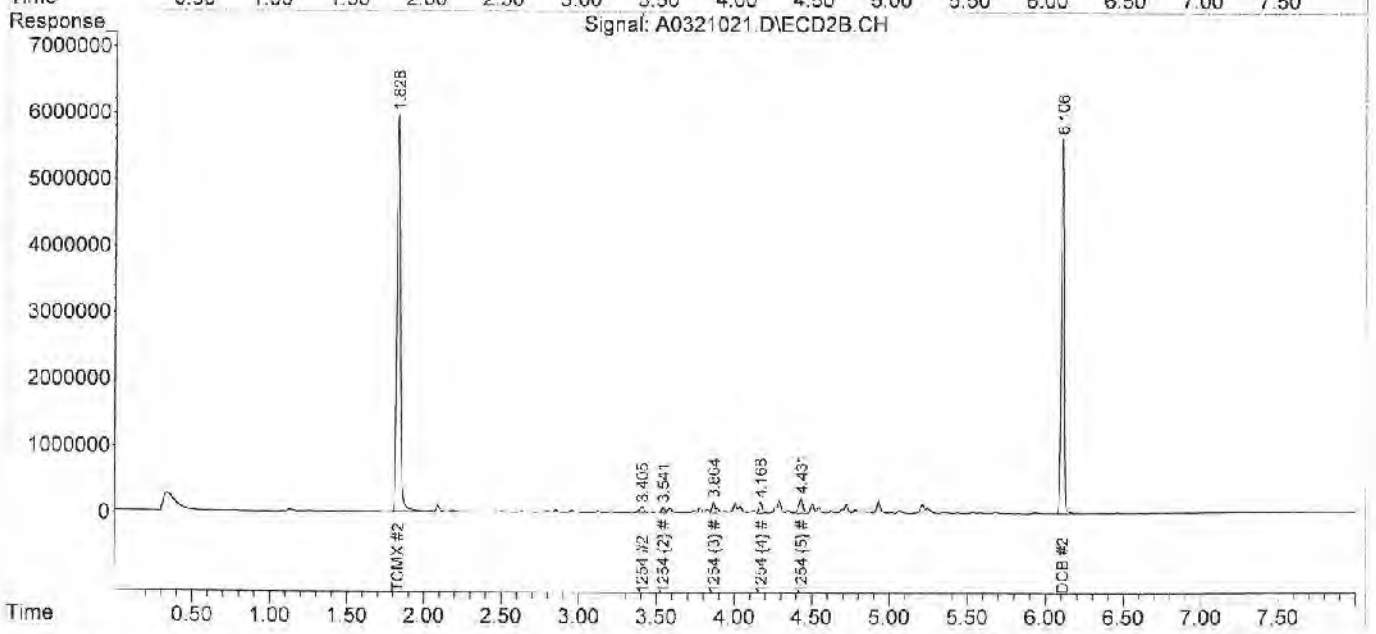
Quantitation Report (Not Reviewed)

Path : C:\msdchem\1\DATA\032112\
File : A0321021.D
Sig(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Date On : 21 Mar 2012 2:55 pm
Operator : JMB
Sample : 12C0603-01 Inst : HP G1530A
Misc :
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: 54-F.E
Integration File signal 2: 54-B.E
Quant Time: Mar 21 17:51:15 2012
DataAcq Meth:E2PEST02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\H54032112.M
Quant Title : 1254 02/10/12 01/06/12
QLast Update : Mon Mar 19 12:47:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





12C0471-02 PH-VBC-318

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.83	0.7741191	6.97
Surrogates			
Decachlorobiphenyl	1.15	0.9801	16
Tetrachloro-m-xylene	1.04	1.07461	3.27

12C0603-01 PH-VBC-344

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.59	0.5133619	13.9
Surrogates			
Decachlorobiphenyl	0.999	0.8870001	11.9
Tetrachloro-m-xylene	1.03	1.096867	6.29

12C0603-02 PH-VBB-347

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.917	0.8193	11.3
Tetrachloro-m-xylene	1.03	1.116281	8.04

B048225-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.912	0.8013727	12.9
Tetrachloro-m-xylene	0.954	1.02405	7.08

B048225-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.23	0.2372619	3.11
Aroclor-1260	0.23	0.2425143	5.3
Surrogates			
Tetrachloro-m-xylene	1.03	1.098814	6.47
Decachlorobiphenyl	0.985	0.8767429	11.6

B048225-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.23	0.2389333	3.81
Aroclor-1260	0.24	0.2458238	2.4
Surrogates			
Decachlorobiphenyl	1.02	0.8992905	12.6
Tetrachloro-m-xylene	0.988	1.046895	5.79

B048225-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.25	0.3160636	23.3
Aroclor-1260	0.63	0.6033181	4.33
Surrogates			
Decachlorobiphenyl	0.936	0.8317454	11.8
Tetrachloro-m-xylene	1.02	1.106873	8.17

B048225-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.25	0.3145714	22.9
Aroclor-1260	0.54	0.5279524	2.26
Surrogates			
Tetrachloro-m-xylene	1.07	1.163476	8.37
Decachlorobiphenyl	0.960	0.8524524	11.9

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0603
Project Location: Harvard Univ-Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0603-01 thru 12C0603-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/22/12

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March 22, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ-Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0605

Enclosed are results of analyses for samples received by the laboratory on March 20, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/22/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0605

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

PROJECT LOCATION: Harvard Univ-Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-342	12C0605-01	Concrete	Bsmt-Vent-CMO at 6-7in	SW-846 8082A	
PH-VBC-345	12C0605-02	Concrete	3rd Flr (IB) at 10-11in	SW-846 8082A	
PH-VBB-346	12C0605-03	Concrete	5th Flr, SW, 5th brick	SW-846 8082A	
PH-VBB-348	12C0605-04	Concrete	1st Flr, SW, 5th brick	SW-846 8082A	
PH-VBB-349	12C0605-05	Concrete	1st Flr, South, 5th brick (LH)	SW-846 8082A	
PH-VBB-350	12C0605-06	Concrete	1st Flr, South, 5th brick (RH)	SW-846 8082A	
PH-VBB-351	12C0605-07	Concrete	1st Flr, SE, 5th brick	SW-846 8082A	
PH-VBB-352	12C0605-08	Concrete	1st Flr, North, 5th brick	SW-846 8082A	
PH-VBC-353	12C0605-09	Concrete		SW-846 8082A	
PH-VBC-354	12C0605-10	Concrete		SW-846 8082A	
PH-VBQ-326	12C0605-11	Water		SW-846 8082A	
PH-VBQ-340	12C0605-12	Water		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported. Possibly contains Aroclor 1260 as well. See attached chromatogram.

Analyte & Samples(s) Qualified:

Aroclor-1254, Aroclor-1254 [2C], Aroclor-1268, Aroclor-1268 [2C]

12C0605-01[PH-VBC-342], 12C0605-02[PH-VBC-345], 12C0605-09[PH-VBC-353], 12C0605-10[PH-VBC-354], 12C0605-04[PH-VBB-348]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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Project Location: Harvard Univ-Pound Hall | Sample Description: Bsmt-Vent-CMO at 6-7in | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBC-342 | Sampled: 3/19/2012 12:35

Sample ID: 12C0605-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 8:41	MJC
Aroclor-1221 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 8:41	MJC
Aroclor-1232 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 8:41	MJC
Aroclor-1242 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 8:41	MJC
Aroclor-1248 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 8:41	MJC
Aroclor-1254 [1]	5.8	0.91	mg/Kg	10	O-19	SW-846 8082A	3/20/12	3/22/12 8:41	MJC
Aroclor-1260 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 8:41	MJC
Aroclor-1262 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 8:41	MJC
Aroclor-1268 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 8:41	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.3	30-150		3/22/12 8:41
Decachlorobiphenyl [2]	86.1	30-150		3/22/12 8:41
Tetrachloro-m-xylene [1]	120	30-150		3/22/12 8:41
Tetrachloro-m-xylene [2]	127	30-150		3/22/12 8:41

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Project Location: Harvard Univ-Pound Hall | Sample Description: 3rd Flr (IB) at 10-11in | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBC-345 | Sampled: 3/19/2012 13:30

Sample ID: 12C0605-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:34	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:34	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:34	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:34	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:34	MJC
Aroclor-1254 [2]	0.55	0.095	mg/Kg	1	O-19	SW-846 8082A	3/20/12	3/21/12 15:34	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:34	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:34	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:34	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		3/21/12 15:34
Decachlorobiphenyl [2]	91.5	30-150		3/21/12 15:34
Tetrachloro-m-xylene [1]	103	30-150		3/21/12 15:34
Tetrachloro-m-xylene [2]	113	30-150		3/21/12 15:34

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Project Location: Harvard Univ-Pound Hall | Sample Description: 5th Flr, SW, 5th brick | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBB-346 | Sampled: 3/19/2012 14:25

Sample ID: 12C0605-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:47	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:47	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:47	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:47	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:47	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:47	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:47	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:47	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 15:47	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	109	30-150		3/21/12 15:47
Decachlorobiphenyl [2]	99.3	30-150		3/21/12 15:47
Tetrachloro-m-xylene [1]	109	30-150		3/21/12 15:47
Tetrachloro-m-xylene [2]	119	30-150		3/21/12 15:47

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Project Location: Harvard Univ-Pound Hall Sample Description: 1st Flr, SW, 5th brick Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBB-348 Sampled: 3/19/2012 14:55

Sample ID: 12C0605-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	3/20/12	3/22/12 8:54	MJC
Aroclor-1221 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	3/20/12	3/22/12 8:54	MJC
Aroclor-1232 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	3/20/12	3/22/12 8:54	MJC
Aroclor-1242 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	3/20/12	3/22/12 8:54	MJC
Aroclor-1248 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	3/20/12	3/22/12 8:54	MJC
Aroclor-1254 [2]	1.4	0.43	mg/Kg	5		SW-846 8082A	3/20/12	3/22/12 8:54	MJC
Aroclor-1260 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	3/20/12	3/22/12 8:54	MJC
Aroclor-1262 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	3/20/12	3/22/12 8:54	MJC
Aroclor-1268 [1]	2.7	0.43	mg/Kg	5	O-19	SW-846 8082A	3/20/12	3/22/12 8:54	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	134	30-150		3/22/12 8:54
Decachlorobiphenyl [2]	120	30-150		3/22/12 8:54
Tetrachloro-m-xylene [1]	122	30-150		3/22/12 8:54
Tetrachloro-m-xylene [2]	129	30-150		3/22/12 8:54

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Project Location: Harvard Univ-Pound Hall | Sample Description: 1st Flr, South, 5th brick (LH) | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBB-349 | Sampled: 3/19/2012 15:15

Sample ID: 12C0605-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 16:52	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 16:52	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 16:52	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 16:52	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 16:52	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 16:52	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 16:52	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 16:52	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 16:52	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		3/21/12 16:52
Decachlorobiphenyl [2]	90.8	30-150		3/21/12 16:52
Tetrachloro-m-xylene [1]	107	30-150		3/21/12 16:52
Tetrachloro-m-xylene [2]	118	30-150		3/21/12 16:52

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Project Location: Harvard Univ-Pound Hall | Sample Description: 1st Flr, South, 5th brick (RH) | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBB-350 | Sampled: 3/19/2012 15:40

Sample ID: 12C0605-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:05	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:05	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:05	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:05	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:05	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:05	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:05	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:05	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:05	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	116	30-150		3/21/12 17:05
Decachlorobiphenyl [2]	104	30-150		3/21/12 17:05
Tetrachloro-m-xylene [1]	110	30-150		3/21/12 17:05
Tetrachloro-m-xylene [2]	119	30-150		3/21/12 17:05

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Project Location: Harvard Univ-Pound Hall | Sample Description: 1st Flr, SE, 5th brick | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBB-351 | Sampled: 3/19/2012 16:10

Sample ID: 12C0605-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:18	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:18	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:18	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:18	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:18	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:18	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:18	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:18	MJC
Aroclor-1268 [2]	0.11	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:18	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	111	30-150		3/21/12 17:18
Decachlorobiphenyl [2]	100	30-150		3/21/12 17:18
Tetrachloro-m-xylene [1]	112	30-150		3/21/12 17:18
Tetrachloro-m-xylene [2]	122	30-150		3/21/12 17:18

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Project Location: Harvard Univ-Pound Hall | Sample Description: 1st Flr, North, 5th brick | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBB-352 | Sampled: 3/19/2012 16:45

Sample ID: 12C0605-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:31	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:31	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:31	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:31	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:31	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:31	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:31	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:31	MJC
Aroclor-1268 [2]	0.13	0.095	mg/Kg	1		SW-846 8082A	3/20/12	3/21/12 17:31	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	119	30-150		3/21/12 17:31
Decachlorobiphenyl [2]	106	30-150		3/21/12 17:31
Tetrachloro-m-xylene [1]	117	30-150		3/21/12 17:31
Tetrachloro-m-xylene [2]	126	30-150		3/21/12 17:31

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Project Location: Harvard Univ-Pound Hall | Sample Description: | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBC-353 | Sampled: 3/20/2012 14:45

Sample ID: 12C0605-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:07	MJC
Aroclor-1221 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:07	MJC
Aroclor-1232 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:07	MJC
Aroclor-1242 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:07	MJC
Aroclor-1248 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:07	MJC
Aroclor-1254 [1]	8.8	0.95	mg/Kg	10	O-19	SW-846 8082A	3/20/12	3/22/12 9:07	MJC
Aroclor-1260 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:07	MJC
Aroclor-1262 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:07	MJC
Aroclor-1268 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:07	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	118	30-150		3/22/12 9:07
Decachlorobiphenyl [2]	109	30-150		3/22/12 9:07
Tetrachloro-m-xylene [1]	127	30-150		3/22/12 9:07
Tetrachloro-m-xylene [2]	137	30-150		3/22/12 9:07

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Project Location: Harvard Univ-Pound Hall | Sample Description: | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBC-354 | Sampled: 3/20/2012 14:50

Sample ID: 12C0605-10

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:20	MJC
Aroclor-1221 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:20	MJC
Aroclor-1232 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:20	MJC
Aroclor-1242 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:20	MJC
Aroclor-1248 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:20	MJC
Aroclor-1254 [1]	12	0.95	mg/Kg	10	O-19	SW-846 8082A	3/20/12	3/22/12 9:20	MJC
Aroclor-1260 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:20	MJC
Aroclor-1262 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:20	MJC
Aroclor-1268 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	3/20/12	3/22/12 9:20	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	127	30-150		3/22/12 9:20
Decachlorobiphenyl [2]	118	30-150		3/22/12 9:20
Tetrachloro-m-xylene [1]	123	30-150		3/22/12 9:20
Tetrachloro-m-xylene [2]	134	30-150		3/22/12 9:20

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Project Location: Harvard Univ-Pound Hall
Sample Description:
Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBQ-326
Sampled: 3/20/2012 13:55

Sample ID: 12C0605-11

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:32	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:32	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:32	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:32	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:32	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:32	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:32	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:32	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:32	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	55.7	30-150		3/21/12 14:32
Decachlorobiphenyl [2]	55.2	30-150		3/21/12 14:32
Tetrachloro-m-xylene [1]	62.5	30-150		3/21/12 14:32
Tetrachloro-m-xylene [2]	64.5	30-150		3/21/12 14:32

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Project Location: Harvard Univ-Pound Hall | Sample Description: | Work Order: 12C0605

Date Received: 3/20/2012

Field Sample #: PH-VBQ-340 | Sampled: 3/20/2012 13:50

Sample ID: 12C0605-12

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:44	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:44	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:44	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:44	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:44	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:44	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:44	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:44	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/21/12	3/21/12 14:44	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	50.4	30-150		3/21/12 14:44
Decachlorobiphenyl [2]	49.8	30-150		3/21/12 14:44
Tetrachloro-m-xylene [1]	65.6	30-150		3/21/12 14:44
Tetrachloro-m-xylene [2]	67.9	30-150		3/21/12 14:44

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0605-01 [PH-VBC-342]	B048225	2.20	10.0	03/20/12
12C0605-02 [PH-VBC-345]	B048225	2.10	10.0	03/20/12
12C0605-03 [PH-VBB-346]	B048225	2.10	10.0	03/20/12
12C0605-04 [PH-VBB-348]	B048225	2.30	10.0	03/20/12
12C0605-05 [PH-VBB-349]	B048225	2.10	10.0	03/20/12
12C0605-06 [PH-VBB-350]	B048225	2.10	10.0	03/20/12
12C0605-07 [PH-VBB-351]	B048225	2.10	10.0	03/20/12
12C0605-08 [PH-VBB-352]	B048225	2.10	10.0	03/20/12
12C0605-09 [PH-VBC-353]	B048225	2.10	10.0	03/20/12
12C0605-10 [PH-VBC-354]	B048225	2.10	10.0	03/20/12

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12C0605-11 [PH-VBQ-326]	B048248	1000	10.0	03/21/12
12C0605-12 [PH-VBQ-340]	B048248	1000	10.0	03/21/12

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048248 - SW-846 3510C										
Blank (B048248-BLK1)				Prepared & Analyzed: 03/21/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*0.894*		µg/L	2.00		44.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.879*		µg/L	2.00		43.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.36*		µg/L	2.00		67.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.41*		µg/L	2.00		70.4	30-150			
LCS (B048248-BS1)				Prepared & Analyzed: 03/21/12						
Aroclor-1016	0.38	0.20	µg/L	0.500		76.8	40-140			
Aroclor-1016 [2C]	0.44	0.20	µg/L	0.500		88.5	40-140			
Aroclor-1260	0.39	0.20	µg/L	0.500		78.5	40-140			
Aroclor-1260 [2C]	0.40	0.20	µg/L	0.500		80.9	40-140			
Surrogate: Decachlorobiphenyl	*0.874*		µg/L	2.00		43.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.861*		µg/L	2.00		43.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.34*		µg/L	2.00		67.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.39*		µg/L	2.00		69.6	30-150			
LCS Dup (B048248-BSD1)				Prepared & Analyzed: 03/21/12						
Aroclor-1016	0.38	0.20	µg/L	0.500		76.4	40-140	0.496	20	
Aroclor-1016 [2C]	0.39	0.20	µg/L	0.500		78.7	40-140	11.7	20	
Aroclor-1260	0.38	0.20	µg/L	0.500		75.3	40-140	4.15	20	
Aroclor-1260 [2C]	0.39	0.20	µg/L	0.500		77.8	40-140	3.90	20	
Surrogate: Decachlorobiphenyl	*0.951*		µg/L	2.00		47.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.941*		µg/L	2.00		47.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.32*		µg/L	2.00		66.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.37*		µg/L	2.00		68.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048225 - SW-846 3540C										
Blank (B048225-BLK1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	ND	0.091	mg/Kg							
Aroclor-1016 [2C]	ND	0.091	mg/Kg							
Aroclor-1221	ND	0.091	mg/Kg							
Aroclor-1221 [2C]	ND	0.091	mg/Kg							
Aroclor-1232	ND	0.091	mg/Kg							
Aroclor-1232 [2C]	ND	0.091	mg/Kg							
Aroclor-1242	ND	0.091	mg/Kg							
Aroclor-1242 [2C]	ND	0.091	mg/Kg							
Aroclor-1248	ND	0.091	mg/Kg							
Aroclor-1248 [2C]	ND	0.091	mg/Kg							
Aroclor-1254	ND	0.091	mg/Kg							
Aroclor-1254 [2C]	ND	0.091	mg/Kg							
Aroclor-1260	ND	0.091	mg/Kg							
Aroclor-1260 [2C]	ND	0.091	mg/Kg							
Aroclor-1262	ND	0.091	mg/Kg							
Aroclor-1262 [2C]	ND	0.091	mg/Kg							
Aroclor-1268	ND	0.091	mg/Kg							
Aroclor-1268 [2C]	ND	0.091	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.912*		mg/Kg	0.909		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.801*		mg/Kg	0.909		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.954*		mg/Kg	0.909		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	0.909		113	30-150			
LCS (B048225-BS1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	0.23	0.095	mg/Kg	0.238		98.6	40-140			
Aroclor-1016 [2C]	0.24	0.095	mg/Kg	0.238		99.7	40-140			
Aroclor-1260	0.23	0.095	mg/Kg	0.238		98.6	40-140			
Aroclor-1260 [2C]	0.24	0.095	mg/Kg	0.238		102	40-140			
Surrogate: Decachlorobiphenyl	*0.985*		mg/Kg	0.952		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.877*		mg/Kg	0.952		92.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.03*		mg/Kg	0.952		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	0.952		115	30-150			
LCS Dup (B048225-BSD1)				Prepared: 03/20/12 Analyzed: 03/21/12						
Aroclor-1016	0.23	0.095	mg/Kg	0.238		96.4	40-140	2.20	30	
Aroclor-1016 [2C]	0.24	0.095	mg/Kg	0.238		100	40-140	0.702	30	
Aroclor-1260	0.24	0.095	mg/Kg	0.238		102	40-140	3.83	30	
Aroclor-1260 [2C]	0.25	0.095	mg/Kg	0.238		103	40-140	1.36	30	
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	0.952		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.899*		mg/Kg	0.952		94.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.988*		mg/Kg	0.952		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	0.952		110	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-19	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported. Possibly contains Aroclor 1260 as well. See attached chromatogram.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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www.contestlabs.com
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East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

1230605

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland ME
Attention: J Hamel, A. Wallace
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard (413)531-4455

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
O FAX ☑ EMAIL O WEBSITE
~~Fax #~~ jhamel@woodardcurran.com
Email: awallace " " " " "
Format: ☑ PDF ☑ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 2011 12 11 proposal date

ANALYSIS REQUESTED: EPA 8082/3540C; EPA 8082 (Aqueous)

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C	EPA 8082 (Aqueous)	# of Containers / ** Preservation / ***Container Code
01	PH-VBC-342	3/19/12	1235			B		✓		Bsmt-Vent-CMU @ 6-7"
02	PH-VBC-~~344~~ 345		~~1370~~ 1332					✓		3rd Flr (IB) @ 10-11"
—	~~PH-VBC-345~~		~~1330~~							
03	PH-VBB-346		1425					✓		5th Flr, SW, 5th brick
04	PH-VBB-348		1455					✓		1st Flr, SW, 5th brick
05	PH-VBB-349		1515					✓		1st Flr, South, 5th brick (LH)
06	PH-VBB-350		1540					✓		1st Flr, South, 5th brick (RH)
07	PH-VBB-351		1610					✓		1st Flr, SE, 5th brick
08	PH-VBB-352		1645					✓		1st Flr, North, 5th brick
09	PH-VBL-353	3/20/12	1445					✓		

Comments: ① ~~EPA~~ KAL EPA 8082/3540C Soxhlet ② RL ≤ 1mg/kg ③ B = Brick ④ Lab does not need to enter descriptions ⑤ 48Hr TAT ⑥ brick facade - exterior sampling Thanks!

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 3/20/12 1500
Received by: (signature)	Date/Time: 3/20/12 1510
Relinquished by: (signature)	Date/Time: 3/20/12 1720
Received by: (signature)	Date/Time: 3/20/12 17:20

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
O MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

*****Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____
B = Brick

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinaud

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax #: jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C Soxhlet	EPA 8082 Aqueous
10	PH-VBL-354	3/20/12	1450			C	U	✓	
11	PH-VBQ-326	3/20/12	1355			AQ	U		✓
12	PH-VBQ-340	3/20/12	1350			AQ	U		✓

3/20/12

Comments: ① EPA 8082 PCB via 3540C Soxhlet ② RL ≤ 1mg/kg ③ C = concrete ④ ACTIVE SAMPLES - 48 HR TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	3/20/12 1500
Received by: (signature) [signature]	Date/Time: 3/20/12 15:10
Relinquished by: (signature) [signature]	Date/Time: 3/20/12 17:20
Received by: (signature) C. Clough-Sagall 3.3°C	Date/Time: 3/20/12 17:20

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
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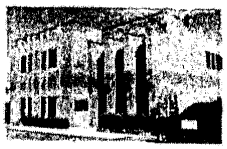
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 3/20/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.3°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	2	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	10
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

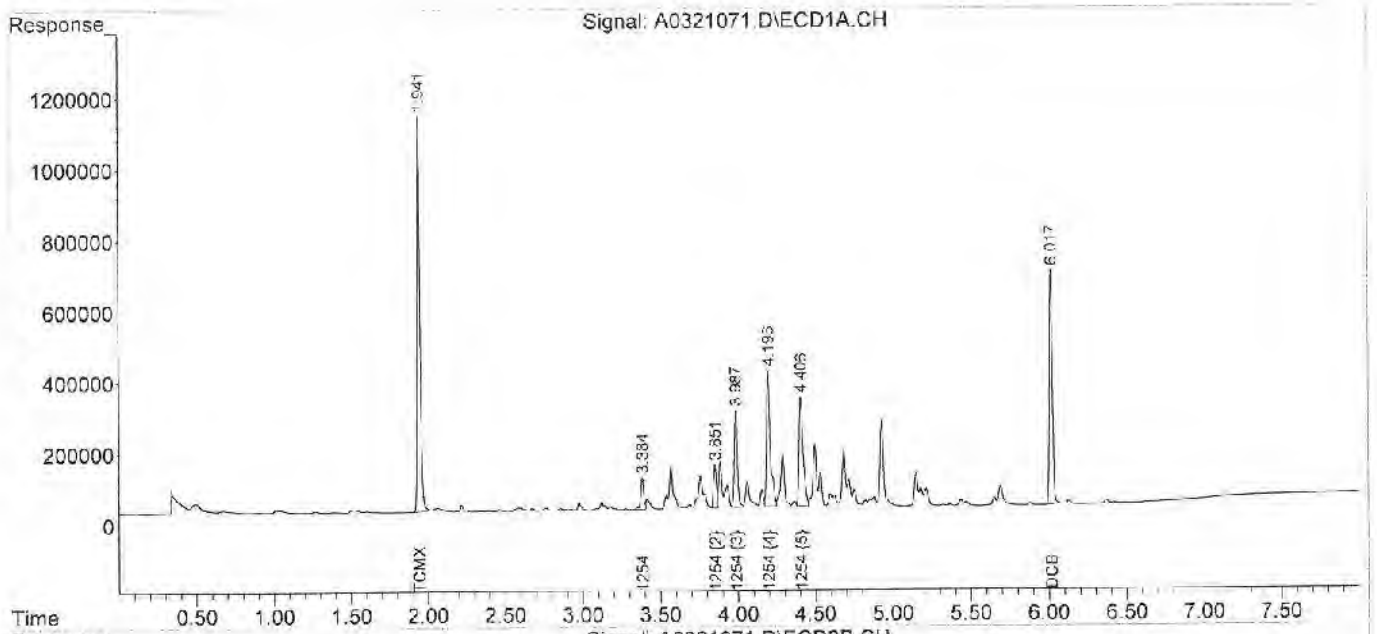
Rev. 1 May 2011

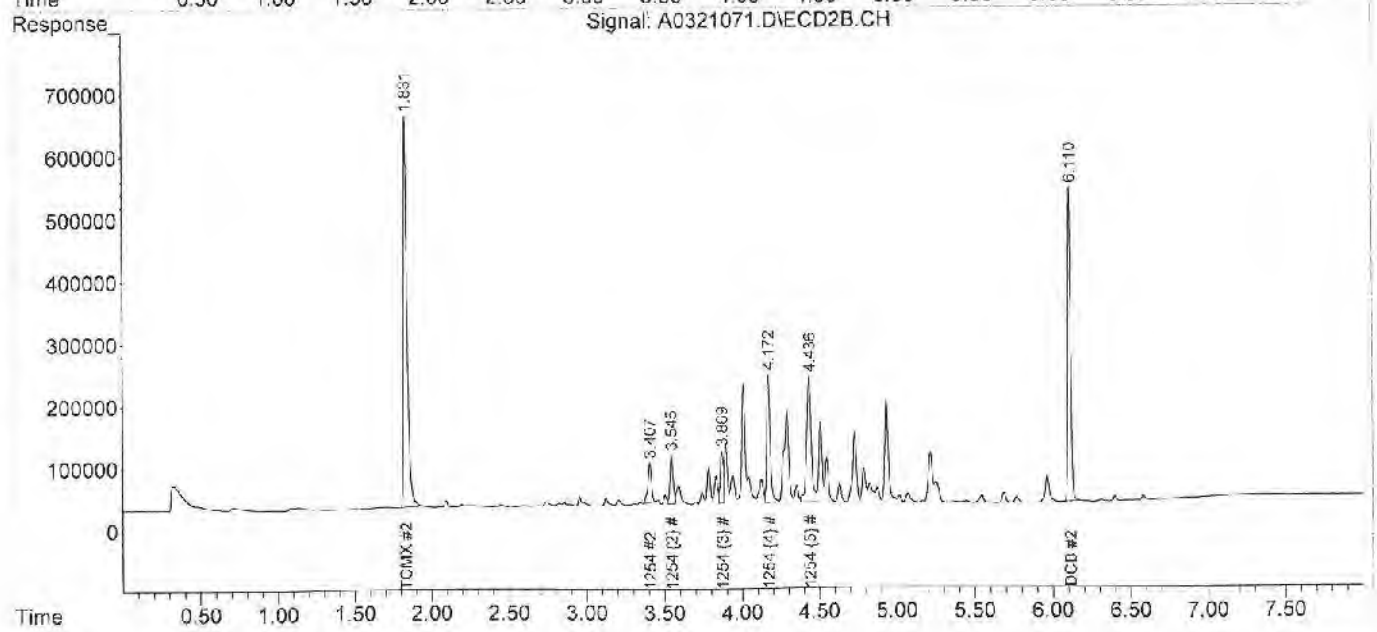
Quantitation Report (Not Reviewed)

C:\msdchem\1\DATA\032112\
: A0321071.D
: Signal #1: ECD1A.CH Signal #2: ECD2B.CH
: 22 Mar 2012 8:41 am
: JMB
: 12C0605-01@10X Inst : HP G1530A
:
LS Vial : 71 Sample Multiplier: 1

Integration File signal 1: 54-F.E
Integration File signal 2: 54-B.E
Quant Time: Mar 22 09:20:33 2012
DataAcq Meth:H2PEST02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\H54032112.M
Quant Title : 1254 02/10/12 02/06/12
QLast Update : Mon Mar 19 12:47:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



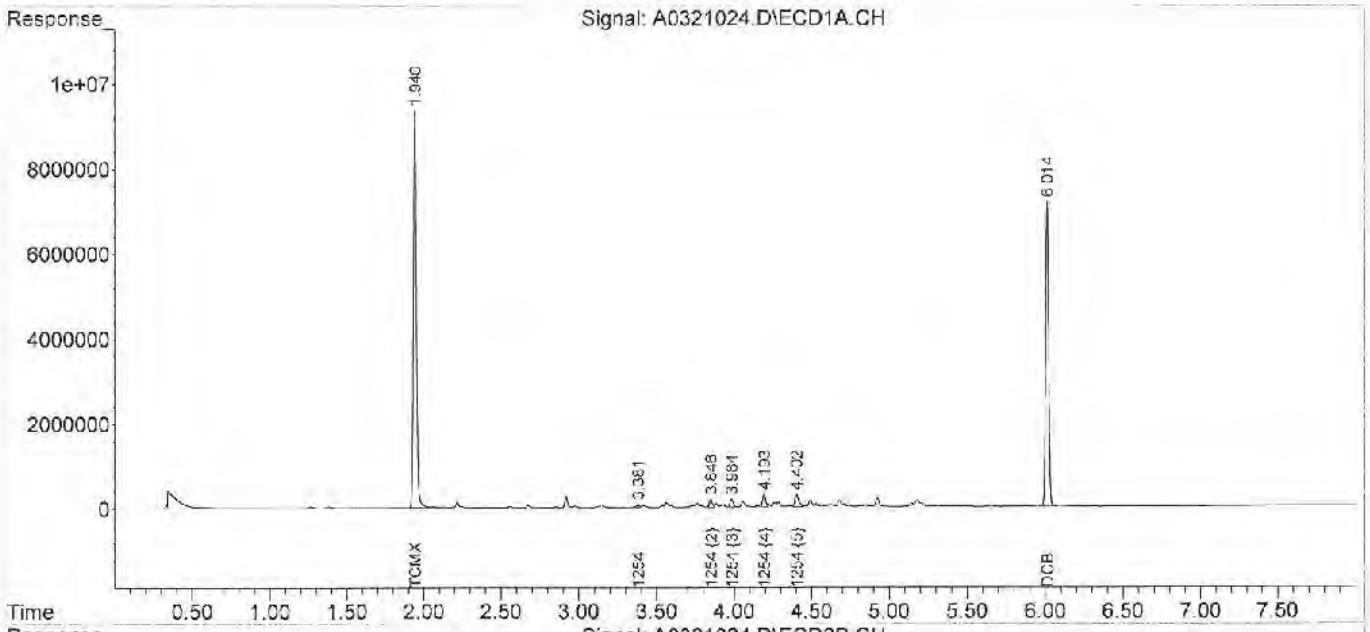


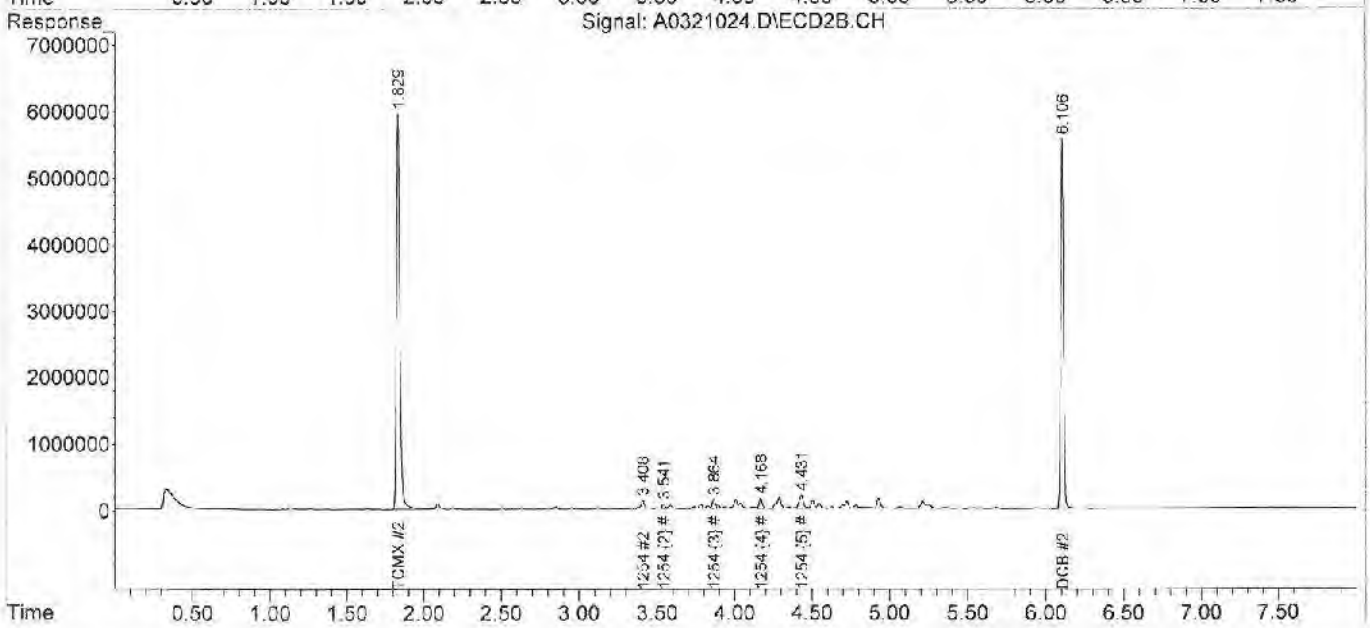
Quantitation Report (Not Reviewed)

Data : C:\msdchem\1\DATA\032112\
File : A0321024.D
Sig(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 21 Mar 2012 3:34 pm
Operator : JMB
Sample : 1200605-02 Inst : HP G1530A
Misc :
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: 54-F.E
Integration File signal 2: 54-B.E
Quant Time: Mar 21 17:52:13 2012
DataAcq Meth:H2BEST02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\H54032112.M
Quant Title : 1254 02/10/12 01/06/12
QLast Update : Mon Mar 19 12:47:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



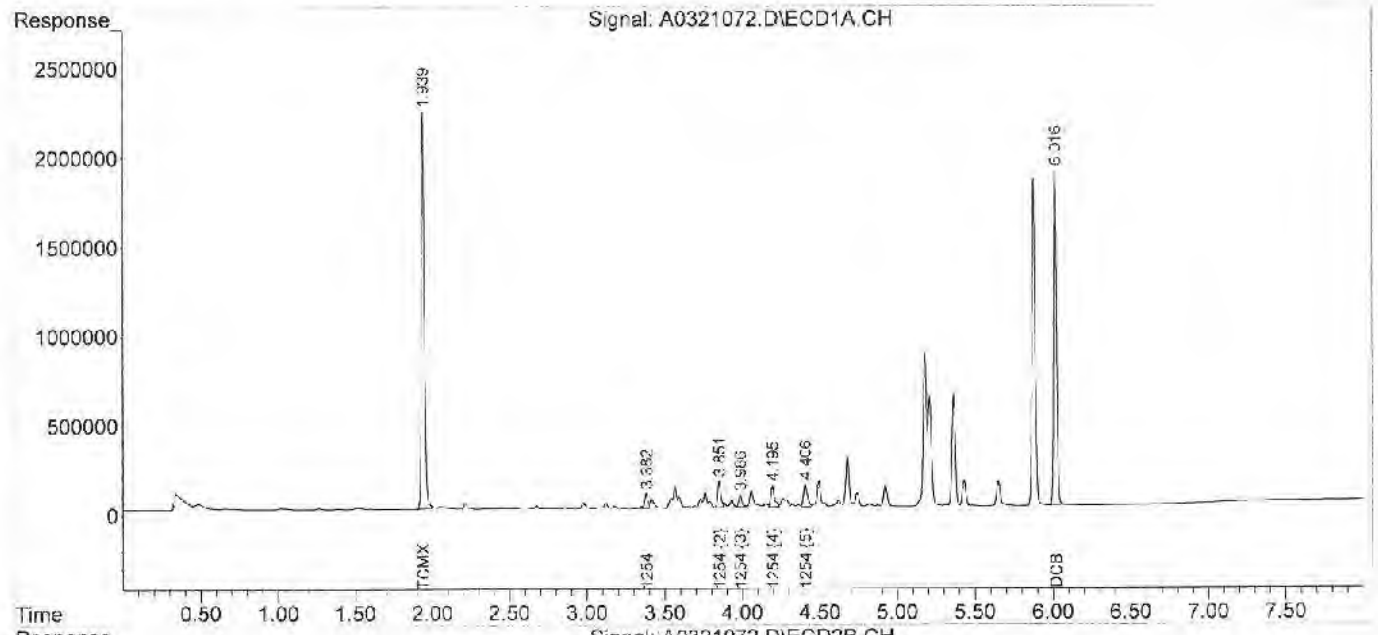


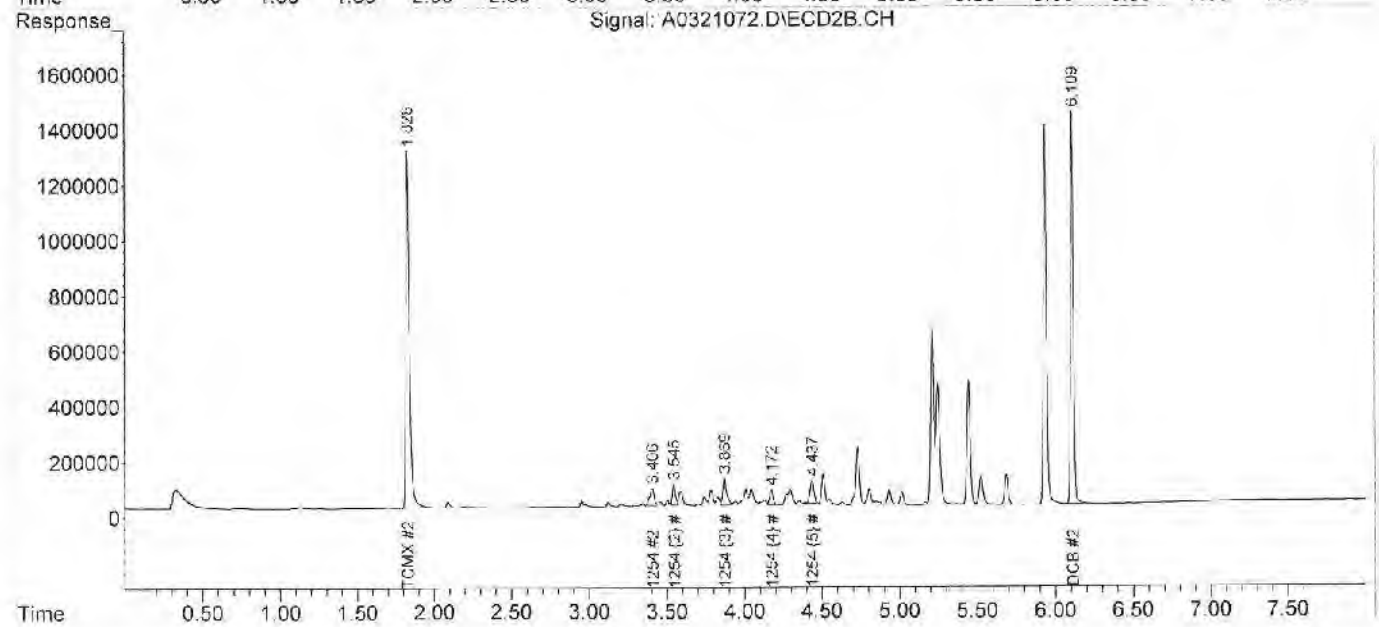
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032112\
Data File : A0321072.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2012 8:54 am
Operator : JMB
Sample : 12C0605-04@5X Inst : HP G1530A
Misc :
ALS Vial : 72 Sample Multiplier: 1

Integration File signal 1: 54-F.E
Integration File signal 2: 54-B.E
Quant Time: Mar 22 09:22:51 2012
DataAcq Meth:H2PEST02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\H54032112.M
Quant Title : 1254 02/10/12 01/06/12
QLast Update : Mon Mar 19 12:47:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



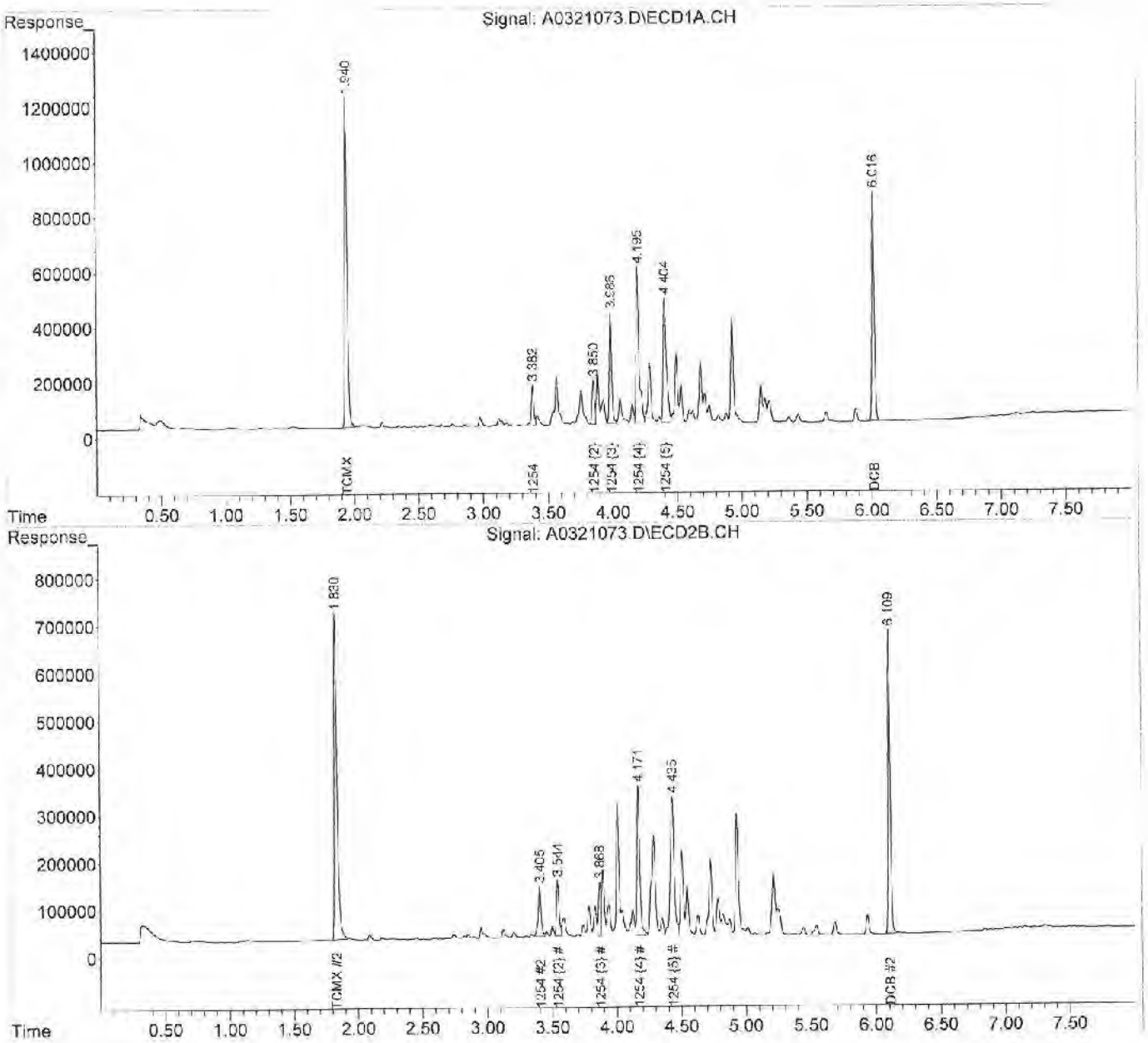


Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\C32112\
Data File : A0321073.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2012 9:07 am
Operator : JMB
Sample : 12C0605-09@10X Inst : HP G1530A
Misc :
ALS Vial : 73 Sample Multiplier: 1

Integration File signal 1: 54-F.E
Integration File signal 2: 54-B.E
Quant Time: Mar 22 09:22:53 2012
DataAcq Meth:H2PEST02.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\H54032112.M
Quant Title : 1254 02/10/12 01/06/12
QLast Update : Mon Mar 19 12:47:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

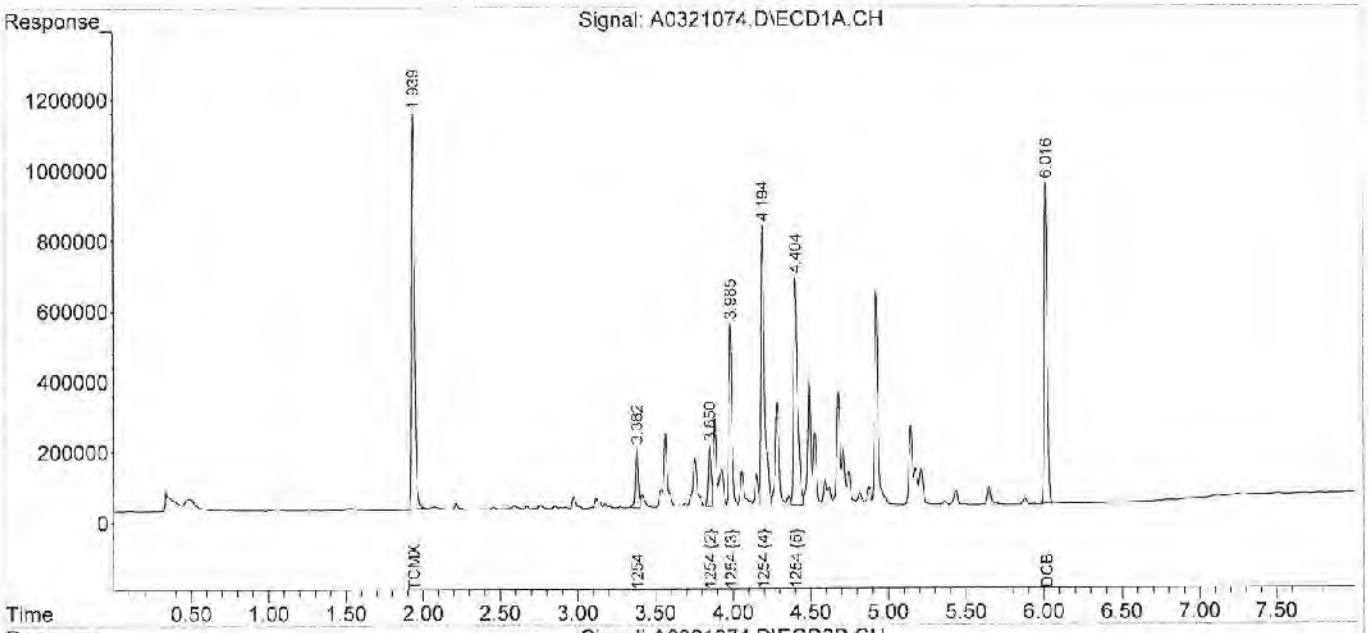


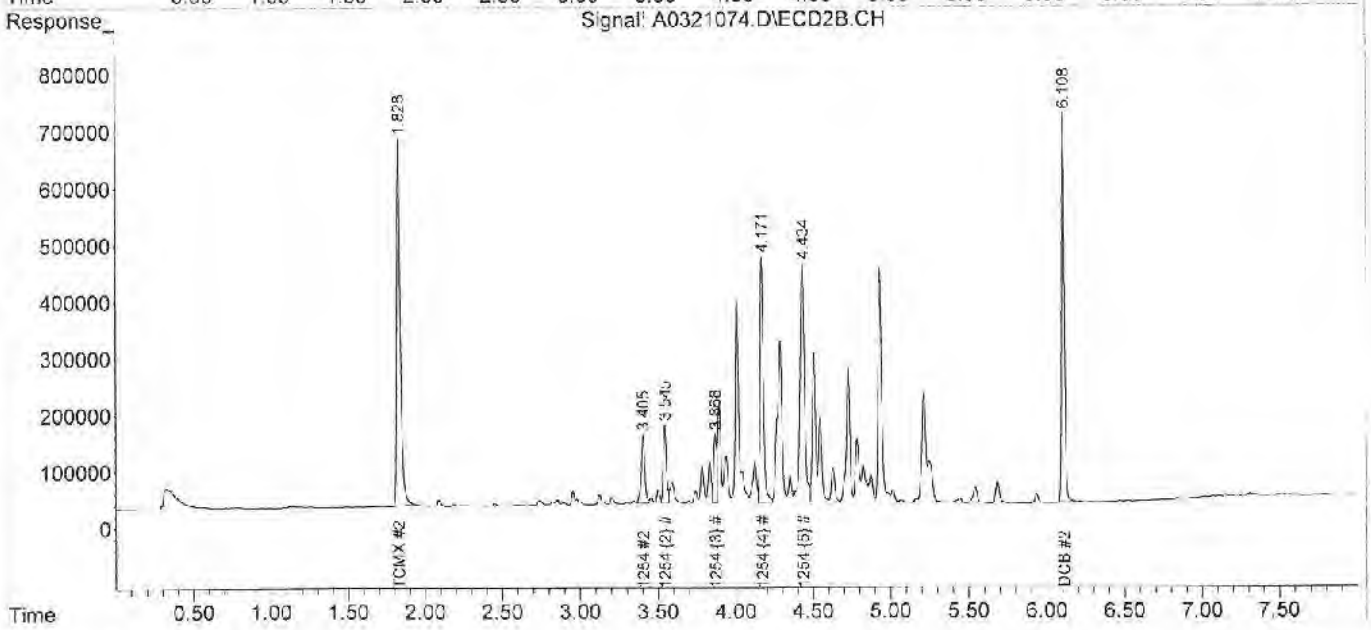
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\DATA\032112\
Data File : A0321074.D
Signal(s) : Signal #1: ECD1A.CH Signal #2: ECD2B.CH
Acq On : 22 Mar 2012 9:20 am
Operator : JMB
Sample : 12C0605-10310X Inst : HP G1530A
Misc :
ALS Vial : 74 Sample Multiplier: 1

Integration File signal 1: 54-F.E
Integration File signal 2: 54-B.E
Quant Time: Mar 22 11:03:57 2012
DataAcq Meth:H2PESTC2.M
Quant Method : C:\msdchem\1\METHODS\PCB METHODS\H54C32112.M
Quant Title : 1254 02/10/12 01/06/12
QLast Update : Mon Mar 19 12:47:52 2012
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





12C0471-02 PH-VBC-318

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.83	0.7741191	6.97
Surrogates			
Decachlorobiphenyl	1.15	0.9801	16
Tetrachloro-m-xylene	1.04	1.07461	3.27

12C0605-01 PH-VBC-342

Analyte	Results		%RPD
Aroclor-1254	5.8	5.434364	6.51
Surrogates			
Decachlorobiphenyl	0.867	0.7828636	10.2
Tetrachloro-m-xylene	1.09	1.153409	5.65

12C0605-02 PH-VBC-345

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.55	0.4753143	14.6
Surrogates			
Decachlorobiphenyl	0.962	0.8710572	9.92
Tetrachloro-m-xylene	0.982	1.077367	9.26

12C0605-03 PH-VBB-346

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.04	0.9460238	9.46
Tetrachloro-m-xylene	1.04	1.137038	8.91

12C0605-04 PH-VBB-348

Analyte	Results		%RPD
Aroclor-1254 [2C]	1.4	1.213413	14.3
Aroclor-1268	2.7	2.481565	8.43
Surrogates			
Tetrachloro-m-xylene	1.06	1.118935	5.41
Decachlorobiphenyl	1.16	1.043696	10.6

12C0605-05 PH-VBB-349

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	1.02	1.121595	9.49
Decachlorobiphenyl	0.959	0.8644286	10.4

12C0605-06 PH-VBB-350

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.10	0.9929381	10.2
Tetrachloro-m-xylene	1.05	1.131057	7.43

12C0605-07 PH-VBB-351

Analyte	Results		%RPD
Aroclor-1268 [2C]	0.11	0.1065143	3.22
Surrogates			
Decachlorobiphenyl	1.06	0.9521524	10.7
Tetrachloro-m-xylene	1.06	1.157581	8.8

12C0605-08 PH-VBB-352

Analyte	Results		%RPD
Aroclor-1268 [2C]	0.13	0.130181	0.139
Surrogates			
Decachlorobiphenyl	1.13	1.009886	11.2
Tetrachloro-m-xylene	1.11	1.203143	8.05

12C0605-09 PH-VBC-353

Analyte		Results	%RPD
Aroclor-1254	8.8	8.402762	4.62
Surrogates			
Decachlorobiphenyl	1.13	1.038857	8.4
Tetrachloro-m-xylene	1.21	1.302524	7.37

12C0605-10 PH-VBC-354

Analyte		Results	%RPD
Aroclor-1254	12	11.10819	7.72
Surrogates			
Tetrachloro-m-xylene	1.17	1.275048	8.59
Decachlorobiphenyl	1.21	1.124095	7.36

12C0605-11 PH-VBQ-326

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	1.11	1.10473	0.476
Tetrachloro-m-xylene	1.25	1.29001	3.15

12C0605-12 PH-VBQ-340

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	1.01	0.99661	1.33
Tetrachloro-m-xylene	1.31	1.35729	3.55

B048225-BLK1 Blank

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.912	0.8013727	12.9
Tetrachloro-m-xylene	0.954	1.02405	7.08

B048225-BS1 LCS

Analyte		Results	%RPD
Aroclor-1260	0.23	0.2425143	5.3
Aroclor-1016	0.23	0.2372619	3.11
Surrogates			
Decachlorobiphenyl	0.985	0.8767429	11.6
Tetrachloro-m-xylene	1.03	1.098814	6.47

B048225-BSD1 LCS Dup

Analyte		Results	%RPD
Aroclor-1016	0.23	0.2389333	3.81
Aroclor-1260	0.24	0.2458238	2.4
Surrogates			
Decachlorobiphenyl	1.02	0.8992905	12.6
Tetrachloro-m-xylene	0.988	1.046895	5.79

B048225-MS1 Matrix Spike

Analyte		Results	%RPD
Aroclor-1260	0.63	0.6033181	4.33
Aroclor-1016	0.25	0.3160636	23.3
Surrogates			
Decachlorobiphenyl	0.936	0.8317454	11.8
Tetrachloro-m-xylene	1.02	1.106873	8.17

B048225-MSD1 Matrix Spike Dup

Analyte		Results	%RPD
Aroclor-1016	0.25	0.3145714	22.9
Aroclor-1260	0.54	0.5279524	2.26
Surrogates			
Decachlorobiphenyl	0.960	0.8524524	11.9
Tetrachloro-m-xylene	1.07	1.163476	8.37

B048248-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	1.36	1.40875	3.52
Decachlorobiphenyl	0.894	0.87869	1.73

B048248-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.38	0.44241	15.2
Aroclor-1260	0.39	0.40431	3.6
Surrogates			
Tetrachloro-m-xylene	1.34	1.39223	3.82
Decachlorobiphenyl	0.874	0.8609	1.51

B048248-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.38	0.39356	3.51
Aroclor-1260	0.38	0.38883	2.3
Surrogates			
Tetrachloro-m-xylene	1.32	1.367	3.5
Decachlorobiphenyl	0.951	0.94117	1.04

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0605
Project Location: Harvard Univ-Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0605-01 thru 12C0605-12

Matrices: Product/Solid Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/22/12

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

March 23, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Pound Hall - Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0655

Enclosed are results of analyses for samples received by the laboratory on March 21, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/23/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0655

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

PROJECT LOCATION: Pound Hall - Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-355	12C0655-01	Concrete	Rm 334 Mottom Sill at 3in	SW-846 8082A	
PH-VBC-357	12C0655-02	Concrete		SW-846 8082A	
PH-VBC-358	12C0655-03	Concrete	IA-Worst Case 1.0-1.5	SW-846 8082A	
PH-VBC-359	12C0655-04	Concrete	Loc-333 at 14-15in	SW-846 8082A	
PH-VBC-360	12C0655-05	Concrete	Loc-310 at 4-5in above 90 degrees	SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B048320-MSD1, B048320-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Pound Hall - Cambridge, MA Sample Description: Rm 334 Mottom Sill at 3in Work Order: 12C0655

Date Received: 3/21/2012

Field Sample #: PH-VBC-355 Sampled: 3/20/2012 16:20

Sample ID: 12C0655-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/21/12	3/23/12 10:29	PJG
Aroclor-1221 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/21/12	3/23/12 10:29	PJG
Aroclor-1232 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/21/12	3/23/12 10:29	PJG
Aroclor-1242 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/21/12	3/23/12 10:29	PJG
Aroclor-1248 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/21/12	3/23/12 10:29	PJG
Aroclor-1254 [2]	4.2	0.91	mg/Kg	10		SW-846 8082A	3/21/12	3/23/12 10:29	PJG
Aroclor-1260 [2]	1.4	0.91	mg/Kg	10		SW-846 8082A	3/21/12	3/23/12 10:29	PJG
Aroclor-1262 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/21/12	3/23/12 10:29	PJG
Aroclor-1268 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	3/21/12	3/23/12 10:29	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	150	30-150		3/23/12 10:29
Decachlorobiphenyl [2]	143	30-150		3/23/12 10:29
Tetrachloro-m-xylene [1]	128	30-150		3/23/12 10:29
Tetrachloro-m-xylene [2]	141	30-150		3/23/12 10:29

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Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12C0655

Date Received: 3/21/2012

Field Sample #: PH-VBC-357 | Sampled: 3/20/2012 16:30

Sample ID: 12C0655-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:00	PJG
Aroclor-1221 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:00	PJG
Aroclor-1232 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:00	PJG
Aroclor-1242 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:00	PJG
Aroclor-1248 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:00	PJG
Aroclor-1254 [1]	0.53	0.092	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:00	PJG
Aroclor-1260 [2]	0.52	0.092	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:00	PJG
Aroclor-1262 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:00	PJG
Aroclor-1268 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:00	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	113	30-150		3/22/12 17:00
Decachlorobiphenyl [2]	108	30-150		3/22/12 17:00
Tetrachloro-m-xylene [1]	105	30-150		3/22/12 17:00
Tetrachloro-m-xylene [2]	119	30-150		3/22/12 17:00

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Project Location: Pound Hall - Cambridge, MA Sample Description: IA-Worst Case 1.0-1.5 Work Order: 12C0655

Date Received: 3/21/2012

Field Sample #: PH-VBC-358 Sampled: 3/20/2012 13:45

Sample ID: 12C0655-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:14	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:14	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:14	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:14	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:14	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:14	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:14	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:14	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:14	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	113	30-150		3/22/12 17:14
Decachlorobiphenyl [2]	106	30-150		3/22/12 17:14
Tetrachloro-m-xylene [1]	111	30-150		3/22/12 17:14
Tetrachloro-m-xylene [2]	126	30-150		3/22/12 17:14

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Project Location: Pound Hall - Cambridge, MA Sample Description: Loc-333 at 14-15in Work Order: 12C0655

Date Received: 3/21/2012

Field Sample #: PH-VBC-359 Sampled: 3/20/2012 14:15

Sample ID: 12C0655-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:27	PJG
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:27	PJG
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:27	PJG
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:27	PJG
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:27	PJG
Aroclor-1254 [2]	0.60	0.094	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:27	PJG
Aroclor-1260 [2]	0.27	0.094	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:27	PJG
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:27	PJG
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:27	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	121	30-150		3/22/12 17:27
Decachlorobiphenyl [2]	115	30-150		3/22/12 17:27
Tetrachloro-m-xylene [1]	115	30-150		3/22/12 17:27
Tetrachloro-m-xylene [2]	127	30-150		3/22/12 17:27

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Project Location: Pound Hall - Cambridge, MA Sample Description: Loc-310 at 4-5in above 90 degrees Work Order: 12C0655

Date Received: 3/21/2012

Field Sample #: PH-VBC-360 Sampled: 3/20/2012 14:30

Sample ID: 12C0655-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:40	PJG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:40	PJG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:40	PJG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:40	PJG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:40	PJG
Aroclor-1254 [2]	0.94	0.093	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:40	PJG
Aroclor-1260 [2]	0.31	0.093	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:40	PJG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:40	PJG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	3/21/12	3/22/12 17:40	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		3/22/12 17:40
Decachlorobiphenyl [2]	97.2	30-150		3/22/12 17:40
Tetrachloro-m-xylene [1]	111	30-150		3/22/12 17:40
Tetrachloro-m-xylene [2]	124	30-150		3/22/12 17:40

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0655-01 [PH-VBC-355]	B048320	2.19	10.0	03/21/12
12C0655-02 [PH-VBC-357]	B048320	2.17	10.0	03/21/12
12C0655-03 [PH-VBC-358]	B048320	2.11	10.0	03/21/12
12C0655-04 [PH-VBC-359]	B048320	2.13	10.0	03/21/12
12C0655-05 [PH-VBC-360]	B048320	2.15	10.0	03/21/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048320 - SW-846 3540C										
Blank (B048320-BLK1)				Prepared: 03/21/12 Analyzed: 03/22/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.08*		mg/Kg	1.00		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.23*		mg/Kg	1.00		123	30-150			
LCS (B048320-BS1)				Prepared: 03/21/12 Analyzed: 03/22/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		108	40-140			
Aroclor-1016 [2C]	0.34	0.10	mg/Kg	0.250		135	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250		121	40-140			
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.26*		mg/Kg	1.00		126	30-150			
LCS Dup (B048320-BSD1)				Prepared: 03/21/12 Analyzed: 03/22/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		107	40-140	1.17	30	
Aroclor-1016 [2C]	0.34	0.10	mg/Kg	0.250		138	40-140	1.66	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		98.2	40-140	6.24	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140	4.26	30	
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.27*		mg/Kg	1.00		127	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B048320 - SW-846 3540C											
Matrix Spike (B048320-MS1)		**Source: 12C0655-01**		Prepared: 03/21/12 Analyzed: 03/22/12							
Aroclor-1016	0.33	0.094	mg/Kg	0.236	0.0	139		40-140			
Aroclor-1016 [2C]	0.68	0.094	mg/Kg	0.236	0.0	**289**	*	40-140			MS-21
Aroclor-1260	1.7	0.094	mg/Kg	0.236	1.1	**261**	*	40-140			MS-21
Aroclor-1260 [2C]	1.7	0.094	mg/Kg	0.236	1.4	**142**	*	40-140			MS-21
Surrogate: Decachlorobiphenyl	*0.990*		mg/Kg	0.943		105		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.934*		mg/Kg	0.943		99.1		30-150			
Surrogate: Tetrachloro-m-xylene	*1.03*		mg/Kg	0.943		109		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.18*		mg/Kg	0.943		125		30-150			
Matrix Spike Dup (B048320-MSD1)		**Source: 12C0655-01**		Prepared: 03/21/12 Analyzed: 03/22/12							
Aroclor-1016	0.38	0.091	mg/Kg	0.229	0.0	**165**	*	40-140	13.9	50	MS-21
Aroclor-1016 [2C]	0.69	0.091	mg/Kg	0.229	0.0	**301**	*	40-140	0.952	50	MS-21
Aroclor-1260	2.1	0.091	mg/Kg	0.229	1.1	**432**	*	40-140	19.7	50	MS-21
Aroclor-1260 [2C]	2.1	0.091	mg/Kg	0.229	1.4	**323**	*	40-140	20.8	50	MS-21
Surrogate: Decachlorobiphenyl	*0.949*		mg/Kg	0.914		104		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.892*		mg/Kg	0.914		97.6		30-150			
Surrogate: Tetrachloro-m-xylene	*0.991*		mg/Kg	0.914		108		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		mg/Kg	0.914		123		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12C0655

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax #~~ jhamel@woodardcurran.com
Email: Awallace@ " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C										
01	PH-VBC-355	3/20/12	1620							Rm 334 Bottom Sill @ 3"								
02	PH-VBC-357	↓	1630															
03	PH-VBC-358	3/21/12	1345							IA - Worst Case 1.0-1.5								
04	PH-VBC-359	↓	1415							Loc 333 @ 14-15"								
05	PH-VBC-360	↓	1430							Loc 310 @ 4-5" above 90°								
	~~PH-VBCD-361~~	~~3/21/12~~	KAR															
⊗	PH-VBC-356		1640							ON Hold - MEK								
	KAR																	
			KAR							KAR								

Comments: ① EPA 8082/3540C Soxhlet ② RL ≤ 1mg/kg ③ C = Concrete
④ ACTIVE - RUSH SAMPLES
⊗ PH-VBC-356 on hold per attached email. MEK 3/22/12

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) KAR	Date/Time: 3/21/12 1445
Received by: (signature) [signature]	Date/Time: 3-21/12 1455
Relinquished by: (signature) [signature]	Date/Time: 3-21-12 1655
Received by: (signature) Paula Blakeboro	Date/Time: 3/21/12 1655

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist

CLIENT NAME: Wardard + Curran **RECEIVED BY:** PB **DATE:** 3/11/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.0

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	6
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments: Extra container recieved marked PH-VBL-356 Not on COC

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Do all samples have the proper Acid pH: Yes No N/A _____

Do all samples have the proper Base pH: Yes No N/A _____

Doc# 277

Rev. 1 May 2

Meghan Kelley

From: Kim Rinard [krinard@woodardcurran.com]
Sent: Thursday, March 22, 2012 8:03 AM
To: Meghan Kelley
Cc: Amy Wallace
Subject: Pound Hall > PH-VBC-356 > HOLD (not on COC)

Good morning Meghan

I am pretty sure that I submitted a sample to the lab yesterday that was not on the single COC that I gave your courier. I had inadvertently filled out a separate COC for this Hold sample but the paperwork was left on my clipboard.

PH-VBC-356 3/20/12 @ 1640 is a contingency sample so we would like to place it on hold pending the results from PH-VBC-357

I will send the proper chain with your driver today, if you can just have yesterday's courier sign it that would be great.

Thanks! (Amy- this is just a heads up in the event that the lab calls you)

Kim Rinard
Scientist

Woodard & Curran
35 New England Business Center Suite 180 Andover, Massachusetts 01810

Office: (978)557-8150 x3647
Office: (866)702-6371
Fax: (978)557-7948
Cell: (413)531-4455

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0655
Project Location: Pound Hall - Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0655-01 thru 12C0655-05

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 03/23/12

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March 26, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0718

Enclosed are results of analyses for samples received by the laboratory on March 22, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/26/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0718

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBQ-361	12C0718-01	Water		SW-846 8082A	
PH-VBC-366	12C0718-02	Concrete		SW-846 8082A	
PH-VBC-367	12C0718-03	Concrete		SW-846 8082A	
PH-VBC-368	12C0718-04	Concrete		SW-846 8082A	
PH-VBC-369	12C0718-05	Concrete		SW-846 8082A	
PH-VBC-370	12C0718-06	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

Login

Qualifications:

Samples were received directly from sampling in the field on ice.

Analyte & Samples(s) Qualified:

12C0718-01[PH-VBQ-361], 12C0718-02[PH-VBC-366], 12C0718-03[PH-VBC-367], 12C0718-04[PH-VBC-368], 12C0718-05[PH-VBC-369], 12C0718-06[PH-VBC-370]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0718

Date Received: 3/22/2012

Field Sample #: PH-VBQ-361 | Sampled: 3/22/2012 07:45

Sample ID: 12C0718-01

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/23/12	3/23/12 13:23	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/23/12	3/23/12 13:23	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/23/12	3/23/12 13:23	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/23/12	3/23/12 13:23	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/23/12	3/23/12 13:23	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/23/12	3/23/12 13:23	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/23/12	3/23/12 13:23	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/23/12	3/23/12 13:23	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/23/12	3/23/12 13:23	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	36.5	30-150		3/23/12 13:23
Decachlorobiphenyl [2]	37.4	30-150		3/23/12 13:23
Tetrachloro-m-xylene [1]	58.8	30-150		3/23/12 13:23
Tetrachloro-m-xylene [2]	59.8	30-150		3/23/12 13:23

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0718

Date Received: 3/22/2012

Field Sample #: PH-VBC-366 | Sampled: 3/22/2012 09:30

Sample ID: 12C0718-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 6:51	JMB
Aroclor-1221 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 6:51	JMB
Aroclor-1232 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 6:51	JMB
Aroclor-1242 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 6:51	JMB
Aroclor-1248 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 6:51	JMB
Aroclor-1254 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 6:51	JMB
Aroclor-1260 [2]	0.29	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 6:51	JMB
Aroclor-1262 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 6:51	JMB
Aroclor-1268 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 6:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.4	30-150		3/24/12 6:51
Decachlorobiphenyl [2]	100	30-150		3/24/12 6:51
Tetrachloro-m-xylene [1]	76.9	30-150		3/24/12 6:51
Tetrachloro-m-xylene [2]	80.3	30-150		3/24/12 6:51

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0718

Date Received: 3/22/2012

Field Sample #: PH-VBC-367 | Sampled: 3/22/2012 09:45

Sample ID: 12C0718-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:03	JMB
Aroclor-1221 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:03	JMB
Aroclor-1232 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:03	JMB
Aroclor-1242 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:03	JMB
Aroclor-1248 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:03	JMB
Aroclor-1254 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:03	JMB
Aroclor-1260 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:03	JMB
Aroclor-1262 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:03	JMB
Aroclor-1268 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	112	30-150		3/24/12 7:03
Decachlorobiphenyl [2]	113	30-150		3/24/12 7:03
Tetrachloro-m-xylene [1]	96.3	30-150		3/24/12 7:03
Tetrachloro-m-xylene [2]	102	30-150		3/24/12 7:03

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0718

Date Received: 3/22/2012

Field Sample #: PH-VBC-368 | Sampled: 3/22/2012 12:20

Sample ID: 12C0718-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.50	mg/Kg	5		SW-846 8082A	3/22/12	3/24/12 22:06	JMB
Aroclor-1221 [2]	ND	0.50	mg/Kg	5		SW-846 8082A	3/22/12	3/24/12 22:06	JMB
Aroclor-1232 [2]	ND	0.50	mg/Kg	5		SW-846 8082A	3/22/12	3/24/12 22:06	JMB
Aroclor-1242 [2]	ND	0.50	mg/Kg	5		SW-846 8082A	3/22/12	3/24/12 22:06	JMB
Aroclor-1248 [2]	ND	0.50	mg/Kg	5		SW-846 8082A	3/22/12	3/24/12 22:06	JMB
Aroclor-1254 [2]	ND	0.50	mg/Kg	5		SW-846 8082A	3/22/12	3/24/12 22:06	JMB
Aroclor-1260 [1]	2.5	0.50	mg/Kg	5		SW-846 8082A	3/22/12	3/24/12 22:06	JMB
Aroclor-1262 [2]	ND	0.50	mg/Kg	5		SW-846 8082A	3/22/12	3/24/12 22:06	JMB
Aroclor-1268 [2]	ND	0.50	mg/Kg	5		SW-846 8082A	3/22/12	3/24/12 22:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		3/24/12 22:06
Decachlorobiphenyl [2]	101	30-150		3/24/12 22:06
Tetrachloro-m-xylene [1]	103	30-150		3/24/12 22:06
Tetrachloro-m-xylene [2]	104	30-150		3/24/12 22:06

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0718

Date Received: 3/22/2012

Field Sample #: PH-VBC-369 | Sampled: 3/22/2012 12:40

Sample ID: 12C0718-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:28	JMB
Aroclor-1221 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:28	JMB
Aroclor-1232 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:28	JMB
Aroclor-1242 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:28	JMB
Aroclor-1248 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:28	JMB
Aroclor-1254 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:28	JMB
Aroclor-1260 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:28	JMB
Aroclor-1262 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:28	JMB
Aroclor-1268 [1]	0.27	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		3/24/12 7:28
Decachlorobiphenyl [2]	105	30-150		3/24/12 7:28
Tetrachloro-m-xylene [1]	97.7	30-150		3/24/12 7:28
Tetrachloro-m-xylene [2]	103	30-150		3/24/12 7:28

con-test® ANALYTICAL LABORATORY

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0718

Date Received: 3/22/2012

Field Sample #: PH-VBC-370 | Sampled: 3/22/2012 13:00

Sample ID: 12C0718-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:40	JMB
Aroclor-1221 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:40	JMB
Aroclor-1232 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:40	JMB
Aroclor-1242 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:40	JMB
Aroclor-1248 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:40	JMB
Aroclor-1254 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:40	JMB
Aroclor-1260 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:40	JMB
Aroclor-1262 [2]	ND	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:40	JMB
Aroclor-1268 [1]	0.24	0.095	mg/Kg	1		SW-846 8082A	3/22/12	3/24/12 7:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	108	30-150		3/24/12 7:40
Decachlorobiphenyl [2]	108	30-150		3/24/12 7:40
Tetrachloro-m-xylene [1]	101	30-150		3/24/12 7:40
Tetrachloro-m-xylene [2]	107	30-150		3/24/12 7:40

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0718-02 [PH-VBC-366]	B048410	2.10	10.0	03/22/12
12C0718-03 [PH-VBC-367]	B048410	2.10	10.0	03/22/12
12C0718-04 [PH-VBC-368]	B048410	2.00	10.0	03/22/12
12C0718-05 [PH-VBC-369]	B048410	2.10	10.0	03/22/12
12C0718-06 [PH-VBC-370]	B048410	2.10	10.0	03/22/12

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12C0718-01 [PH-VBQ-361]	B048418	1000	10.0	03/23/12

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048418 - SW-846 3510C										
Blank (B048418-BLK1)				Prepared & Analyzed: 03/23/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.30*		µg/L	2.00		65.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.34*		µg/L	2.00		67.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.45*		µg/L	2.00		72.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.49*		µg/L	2.00		74.3	30-150			
LCS (B048418-BS1)				Prepared & Analyzed: 03/23/12						
Aroclor-1016	0.46	0.20	µg/L	0.500		92.7	40-140			
Aroclor-1016 [2C]	0.44	0.20	µg/L	0.500		88.2	40-140			
Aroclor-1260	0.46	0.20	µg/L	0.500		91.7	40-140			
Aroclor-1260 [2C]	0.42	0.20	µg/L	0.500		84.1	40-140			
Surrogate: Decachlorobiphenyl	*1.43*		µg/L	2.00		71.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.48*		µg/L	2.00		74.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.42*		µg/L	2.00		70.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.45*		µg/L	2.00		72.4	30-150			
LCS Dup (B048418-BSD1)				Prepared & Analyzed: 03/23/12						
Aroclor-1016	0.47	0.20	µg/L	0.500		95.0	40-140	2.44	20	
Aroclor-1016 [2C]	0.45	0.20	µg/L	0.500		90.0	40-140	1.97	20	
Aroclor-1260	0.47	0.20	µg/L	0.500		93.5	40-140	1.94	20	
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		85.8	40-140	2.06	20	
Surrogate: Decachlorobiphenyl	*1.38*		µg/L	2.00		69.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.42*		µg/L	2.00		70.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.45*		µg/L	2.00		72.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.48*		µg/L	2.00		74.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048410 - SW-846 3540C										
Blank (B048410-BLK1)				Prepared: 03/22/12 Analyzed: 03/24/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.08*		mg/Kg	1.00		108	30-150			
LCS (B048410-BS1)				Prepared: 03/22/12 Analyzed: 03/24/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250		100	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250		97.8	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		106	40-140			
Surrogate: Decachlorobiphenyl	*0.992*		mg/Kg	1.00		99.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.991*		mg/Kg	1.00		99.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.904*		mg/Kg	1.00		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.952*		mg/Kg	1.00		95.2	30-150			
LCS Dup (B048410-BSD1)				Prepared: 03/22/12 Analyzed: 03/24/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250		102	40-140	1.73	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140	0.504	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		97.5	40-140	0.264	30	
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		107	40-140	0.184	30	
Surrogate: Decachlorobiphenyl	*0.991*		mg/Kg	1.00		99.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.991*		mg/Kg	1.00		99.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.919*		mg/Kg	1.00		91.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.968*		mg/Kg	1.00		96.8	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
T-06	Samples were received directly from sampling in the field on ice.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

F 1 of 1

ACTIVE

12C0718

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard-Univ. Pound Hall
Sampled By: Kim Rinard (413) 531-4455

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax #~~ jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C Aqueous (1 / I / G)	EPA 8082/3540C (1 / I / G)	ANALYSIS REQUESTED
01	PH-VBQ-361	3/22/12	0745			AQ		✓		
~~[illegible]~~	~~PH-VBL-362~~	~~3/22/12~~	~~0830~~			~~C~~			✓	~~HOLD~~ KAR 3/21/12
~~[illegible]~~	~~PH-VBLD 363~~	↓	~~0830~~			~~C~~			✓	~~HOLD~~ ↓
~~[illegible]~~	~~PH-VBL-364~~	↓	~~0845~~			~~C~~			✓	~~HOLD~~ ↓
~~[illegible]~~	~~PH-VBL-365~~	↓	~~0905~~			~~C~~			✓	~~HOLD~~ KAR 3/21/12
02	PH-VBL-366	↓	0930			C			✓	
03	PH-VBL-367	↓	0945			C			✓	
04	PH-VBL-368	↓	1220			C			✓	
05	PH-VBL-369	↓	1240			C			✓	
06	PH-VBL-370	3/22/12	1300			C			✓	

Comments: ① EPA 8082 PCB's via 3540C Soxhlet ② RL ≤ 1mg/Kg ③ AQ= Aqueous, C= Concrete ④ Active Samples

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
KAR K. Rinard	3/22/12 1425
Received by: (signature) Stephen Malfa	Date/Time: 3-22-12 1425
Relinquished by: (signature) Stephen Malfa	Date/Time: 3-22-12 1740
Received by: (signature) C. Clough-Segall 10.7°C	Date/Time: 3/22/12 17:40

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/Kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 3/22/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A PB

Temperature °C by Temp blank _____ Temperature °C by Temp gun 10.1°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	1	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	5
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12C0681-32 PCS-2632

Analyte	Results		%RPD
Aroclor-1262 [2C]	1.3	1.2226	6.14
Surrogates			
Decachlorobiphenyl [2C]	0.838	0.7750727	7.8
Tetrachloro-m-xylene [2C]	0.896	0.8642909	3.6

12C0718-01 PH-VBQ-361

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.731	0.74717	2.19
Tetrachloro-m-xylene	1.18	1.19692	1.42

12C0718-02 PH-VBC-366

Analyte	Results		%RPD
Aroclor-1260 [2C]	0.29	0.2822334	2.71
Surrogates			
Decachlorobiphenyl [2C]	0.956	0.9465858	0.99
Tetrachloro-m-xylene [2C]	0.765	0.7319477	4.42

12C0718-03 PH-VBC-367

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl [2C]	1.08	1.069095	1.01
Tetrachloro-m-xylene [2C]	0.968	0.9174524	5.36

12C0718-04 PH-VBC-368

Analyte	Results		%RPD
Aroclor-1260	2.5	2.430825	2.81
Surrogates			
Decachlorobiphenyl [2C]	1.01	1.042275	3.15
Tetrachloro-m-xylene [2C]	1.04	1.034425	0.537

12C0718-05 PH-VBC-369

Analyte	Results		%RPD
Aroclor-1268	0.27	0.2466381	9.04
Surrogates			
Decachlorobiphenyl [2C]	1.00	1.003281	0.328
Tetrachloro-m-xylene [2C]	0.984	0.9303905	5.6

12C0718-06 PH-VBC-370

Analyte	Results		%RPD
Aroclor-1268	0.24	0.2176714	9.76
Surrogates			
Decachlorobiphenyl [2C]	1.03	1.026271	0.363
Tetrachloro-m-xylene [2C]	1.02	0.9662905	5.41

B048410-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.10	1.10173	0.157
Tetrachloro-m-xylene	1.02	1.08038	5.75

B048410-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.25	0.26003	3.93
Aroclor-1260	0.24	0.26596	10.3
Surrogates			
Tetrachloro-m-xylene	0.904	0.95207	5.18
Decachlorobiphenyl	0.992	0.99135	0.0655

B048410-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.25	0.261345	4.44
Aroclor-1260	0.24	0.26645	10.4
Surrogates			
Decachlorobiphenyl	0.991	0.9909	0.0101
Tetrachloro-m-xylene	0.919	0.968145	5.21

B048410-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.25	0.2723572	8.56
Aroclor-1260	1.7	1.782191	4.72
Surrogates			
Decachlorobiphenyl	0.839	0.9007143	7.09
Tetrachloro-m-xylene	0.879	0.9225572	4.84

B048410-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1260	1.6	1.694624	5.74
Aroclor-1016	0.28	0.2995524	6.75
Surrogates			
Decachlorobiphenyl	0.862	0.9256715	7.12
Tetrachloro-m-xylene	0.904	0.9390143	3.8

B048418-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.30	1.34191	3.17
Tetrachloro-m-xylene	1.45	1.48563	2.43

B048418-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.46	0.44112	4.19
Aroclor-1260	0.46	0.42027	9.03
Surrogates			
Decachlorobiphenyl	1.43	1.47905	3.37
Tetrachloro-m-xylene	1.42	1.44773	1.93

B048418-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.47	0.4499	4.37
Aroclor-1260	0.47	0.42902	9.12
Surrogates			
Tetrachloro-m-xylene	1.45	1.47945	2.01
Decachlorobiphenyl	1.38	1.41723	2.66

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0718
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0718-01 thru 12C0718-06

Matrices: Product/Solid Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/26/12

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

March 27, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0762

Enclosed are results of analyses for samples received by the laboratory on March 23, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/27/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0762

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-371	12C0762-01	Concrete	Sill above window D(2) at 3in	SW-846 8082A	
PH-VBC-372	12C0762-02	Concrete	Sill above D(2) at 3in	SW-846 8082A	
PH-VBC-373	12C0762-03	Concrete	Sill above E(3) at 3in	SW-846 8082A	
PH-VBC-374	12C0762-04	Concrete	Sill above E(3) at 3in	SW-846 8082A	
PH-VBC-375	12C0762-05	Concrete	Sill above F(3) at 3in	SW-846 8082A	
PH-VBC-376	12C0762-06	Concrete	Sill above F(3) at 3in	SW-846 8082A	
PH-VBC-377	12C0762-07	Concrete	Concrete above Brick at 1-2in	SW-846 8082A	
PH-VBCD-378	12C0762-08	Concrete	Duplicate	SW-846 8082A	
PH-VBQ-379	12C0762-09	Water		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Surrogate outside of control criteria, insufficient sample for re-extraction.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C]

12C0762-09[PH-VBQ-379]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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Project Location: Harvard Univ. Pound Hall | Sample Description: Sill above window D(2) at 3in | Work Order: 12C0762

Date Received: 3/23/2012

Field Sample #: PH-VBC-371 | Sampled: 3/23/2012 11:30

Sample ID: 12C0762-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:10	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:10	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:10	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:10	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:10	PJG
Aroclor-1254 [1]	0.17	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:10	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:10	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:10	PJG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:10	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	87.3	30-150		3/26/12 16:10
Decachlorobiphenyl [2]	94.2	30-150		3/26/12 16:10
Tetrachloro-m-xylene [1]	93.4	30-150		3/26/12 16:10
Tetrachloro-m-xylene [2]	101	30-150		3/26/12 16:10

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Project Location: Harvard Univ. Pound Hall | Sample Description: Sill above D(2) at 3in | Work Order: 12C0762

Date Received: 3/23/2012

Field Sample #: PH-VBC-372 | Sampled: 3/23/2012 11:25

Sample ID: 12C0762-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:24	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:24	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:24	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:24	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:24	PJG
Aroclor-1254 [2]	0.10	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:24	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:24	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:24	PJG
Aroclor-1268 [2]	0.25	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:24	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.8	30-150		3/26/12 16:24
Decachlorobiphenyl [2]	96.2	30-150		3/26/12 16:24
Tetrachloro-m-xylene [1]	95.5	30-150		3/26/12 16:24
Tetrachloro-m-xylene [2]	104	30-150		3/26/12 16:24

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Project Location: Harvard Univ. Pound Hall | Sample Description: Sill above E(3) at 3in | Work Order: 12C0762

Date Received: 3/23/2012

Field Sample #: PH-VBC-373 | Sampled: 3/23/2012 11:55

Sample ID: 12C0762-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:38	PJG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:38	PJG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:38	PJG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:38	PJG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:38	PJG
Aroclor-1254 [2]	0.59	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:38	PJG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:38	PJG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:38	PJG
Aroclor-1268 [2]	0.13	0.087	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:38	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	67.7	30-150		3/26/12 16:38
Decachlorobiphenyl [2]	72.6	30-150		3/26/12 16:38
Tetrachloro-m-xylene [1]	73.6	30-150		3/26/12 16:38
Tetrachloro-m-xylene [2]	79.9	30-150		3/26/12 16:38

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Project Location: Harvard Univ. Pound Hall | Sample Description: Sill above E(3) at 3in | Work Order: 12C0762

Date Received: 3/23/2012

Field Sample #: PH-VBC-374 | Sampled: 3/23/2012 11:45

Sample ID: 12C0762-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:52	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:52	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:52	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:52	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:52	PJG
Aroclor-1254 [2]	0.10	0.095	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:52	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:52	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:52	PJG
Aroclor-1268 [2]	0.52	0.095	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 16:52	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.5	30-150		3/26/12 16:52
Decachlorobiphenyl [2]	99.7	30-150		3/26/12 16:52
Tetrachloro-m-xylene [1]	94.3	30-150		3/26/12 16:52
Tetrachloro-m-xylene [2]	103	30-150		3/26/12 16:52

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Project Location: Harvard Univ. Pound Hall | Sample Description: Sill above F(3) at 3in | Work Order: 12C0762

Date Received: 3/23/2012

Field Sample #: PH-VBC-375 | Sampled: 3/23/2012 13:50

Sample ID: 12C0762-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:06	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:06	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:06	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:06	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:06	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:06	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:06	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:06	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:06	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.5	30-150		3/26/12 17:06
Decachlorobiphenyl [2]	97.6	30-150		3/26/12 17:06
Tetrachloro-m-xylene [1]	98.5	30-150		3/26/12 17:06
Tetrachloro-m-xylene [2]	107	30-150		3/26/12 17:06

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Project Location: Harvard Univ. Pound Hall | Sample Description: Sill above F(3) at 3in | Work Order: 12C0762

Date Received: 3/23/2012

Field Sample #: PH-VBC-376 | Sampled: 3/23/2012 14:00

Sample ID: 12C0762-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:20	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:20	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:20	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:20	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:20	PJG
Aroclor-1254 [2]	0.38	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:20	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:20	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:20	PJG
Aroclor-1268 [2]	0.14	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:20	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	79.5	30-150		3/26/12 17:20
Decachlorobiphenyl [2]	85.9	30-150		3/26/12 17:20
Tetrachloro-m-xylene [1]	89.7	30-150		3/26/12 17:20
Tetrachloro-m-xylene [2]	97.6	30-150		3/26/12 17:20

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Project Location: Harvard Univ. Pound Hall | Sample Description: Concrete above Brick at 1-2in | Work Order: 12C0762

Date Received: 3/23/2012

Field Sample #: PH-VBC-377 | Sampled: 3/23/2012 14:25

Sample ID: 12C0762-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:34	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:34	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:34	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:34	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:34	PJG
Aroclor-1254 [2]	0.14	0.091	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:34	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:34	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:34	PJG
Aroclor-1268 [2]	0.66	0.091	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:34	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	84.5	30-150		3/26/12 17:34
Decachlorobiphenyl [2]	91.5	30-150		3/26/12 17:34
Tetrachloro-m-xylene [1]	87.6	30-150		3/26/12 17:34
Tetrachloro-m-xylene [2]	95.6	30-150		3/26/12 17:34

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Project Location: Harvard Univ. Pound Hall | Sample Description: Duplicate | Work Order: 12C0762

Date Received: 3/23/2012

Field Sample #: PH-VBCD-378 | Sampled: 3/23/2012 13:50

Sample ID: 12C0762-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:48	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:48	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:48	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:48	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:48	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:48	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:48	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:48	PJG
Aroclor-1268 [2]	0.21	0.10	mg/Kg	1		SW-846 8082A	3/23/12	3/26/12 17:48	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.5	30-150		3/26/12 17:48
Decachlorobiphenyl [2]	90.3	30-150		3/26/12 17:48
Tetrachloro-m-xylene [1]	93.6	30-150		3/26/12 17:48
Tetrachloro-m-xylene [2]	102	30-150		3/26/12 17:48

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0762

Date Received: 3/23/2012

Field Sample #: PH-VBQ-379 | Sampled: 3/23/2012 15:10

Sample ID: 12C0762-09

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/24/12	3/26/12 19:49	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/24/12	3/26/12 19:49	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/24/12	3/26/12 19:49	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/24/12	3/26/12 19:49	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/24/12	3/26/12 19:49	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/24/12	3/26/12 19:49	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/24/12	3/26/12 19:49	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/24/12	3/26/12 19:49	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	3/24/12	3/26/12 19:49	PJG

Surrogates	% Recovery		Recovery Limits	Flag	
Decachlorobiphenyl [1]	**29.2**	*	30-150	Z-01	3/26/12 19:49
Decachlorobiphenyl [2]	**29.6**	*	30-150	Z-01	3/26/12 19:49
Tetrachloro-m-xylene [1]	65.1		30-150		3/26/12 19:49
Tetrachloro-m-xylene [2]	72.7		30-150		3/26/12 19:49

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0762-01 [PH-VBC-371]	B048482	2.30	10.0	03/23/12
12C0762-02 [PH-VBC-372]	B048482	2.30	10.0	03/23/12
12C0762-03 [PH-VBC-373]	B048482	2.30	10.0	03/23/12
12C0762-04 [PH-VBC-374]	B048482	2.10	10.0	03/23/12
12C0762-05 [PH-VBC-375]	B048482	2.00	10.0	03/23/12
12C0762-06 [PH-VBC-376]	B048482	2.00	10.0	03/23/12
12C0762-07 [PH-VBC-377]	B048482	2.20	10.0	03/23/12
12C0762-08 [PH-VBCD-378]	B048482	2.00	10.0	03/23/12

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12C0762-09 [PH-VBQ-379]	B048490	1000	10.0	03/24/12

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048490 - SW-846 3510C										
Blank (B048490-BLK1)				Prepared: 03/24/12 Analyzed: 03/26/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.18*		µg/L	2.00		58.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.28*		µg/L	2.00		64.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.37*		µg/L	2.00		68.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.52*		µg/L	2.00		76.2	30-150			
LCS (B048490-BS1)				Prepared: 03/24/12 Analyzed: 03/26/12						
Aroclor-1016	0.45	0.20	µg/L	0.500		90.6	40-140			
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		94.7	40-140			
Aroclor-1260	0.44	0.20	µg/L	0.500		88.8	40-140			
Aroclor-1260 [2C]	0.44	0.20	µg/L	0.500		88.5	40-140			
Surrogate: Decachlorobiphenyl	*1.30*		µg/L	2.00		64.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.43*		µg/L	2.00		71.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.50*		µg/L	2.00		75.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/L	2.00		84.0	30-150			
LCS Dup (B048490-BSD1)				Prepared: 03/24/12 Analyzed: 03/26/12						
Aroclor-1016	0.47	0.20	µg/L	0.500		94.2	40-140	3.91	20	
Aroclor-1016 [2C]	0.49	0.20	µg/L	0.500		99.0	40-140	4.38	20	
Aroclor-1260	0.45	0.20	µg/L	0.500		89.5	40-140	0.807	20	
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.3	40-140	2.41	20	
Surrogate: Decachlorobiphenyl	*1.15*		µg/L	2.00		57.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.25*		µg/L	2.00		62.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.51*		µg/L	2.00		75.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/L	2.00		84.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048482 - SW-846 3540C										
Blank (B048482-BLK1)				Prepared: 03/23/12 Analyzed: 03/26/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.647*		mg/Kg	1.00		64.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.683*		mg/Kg	1.00		68.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.890*		mg/Kg	1.00		89.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.969*		mg/Kg	1.00		96.9	30-150			
LCS (B048482-BS1)				Prepared: 03/23/12 Analyzed: 03/26/12						
Aroclor-1016	0.22	0.10	mg/Kg	0.250		90.0	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		106	40-140			
Aroclor-1260	0.20	0.10	mg/Kg	0.250		80.1	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		95.2	40-140			
Surrogate: Decachlorobiphenyl	*0.775*		mg/Kg	1.00		77.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.817*		mg/Kg	1.00		81.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.927*		mg/Kg	1.00		92.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101	30-150			
LCS Dup (B048482-BSD1)				Prepared: 03/23/12 Analyzed: 03/26/12						
Aroclor-1016	0.23	0.10	mg/Kg	0.250		90.6	40-140	0.689	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		109	40-140	3.06	30	
Aroclor-1260	0.21	0.10	mg/Kg	0.250		83.7	40-140	4.40	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140	6.13	30	
Surrogate: Decachlorobiphenyl	*0.787*		mg/Kg	1.00		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.829*		mg/Kg	1.00		82.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.893*		mg/Kg	1.00		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.970*		mg/Kg	1.00		97.0	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
Z-01	Surrogate outside of control criteria, insufficient sample for re-extraction.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1 of 1

12C0762

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax #: jhamel@woodardcurran.com
Email: awallace@woodardcurran.com
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C	EPA 8082 Aqueous									
								1	1									
								I	I									
								G	G									
01	PH-VBL-371	3/23/12	1130			C		✓		Sill above window					D(2)	@	3"	
02	PH-VBL-372	↓	1125			C		✓		Sill below					D(2)	@	3"	
03	PH-VBL-373		1155			C		✓		Sill above					E(3)	@	3"	
04	PH-VBL-374		1145			C		✓		Sill below					E(3)	@	3"	
05	PH-VBL-375		1350			C		✓		Sill below					F(3)	@	3"	
06	PH-VBL-376		1400			C		✓		Sill above					F(3)	@	3"	
07	PH-VBL-377		1425			C		✓		Concrete above brick						@	1.0"-2.0	
08	PH-VBLD-378	↓	1350			C		✓		Duplicate								
09	PH-VBQ-379	3/23/12	1510			AQ			✓									

3/23/12 [illegible]

Comments: ① EPA 8082/3540C via Soxhlet ② RL ≤ 1mg/kg ③ C = Concrete ④ ANALYZE ALL SAMPLES ⑤ Exterior Facade Samples

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) K Rinard	Date/Time: 3/23/12 1535
Received by: (signature) [signature]	Date/Time: 3/23/12 1535
Relinquished by: (signature) Joseph M [signature]	Date/Time: 3/23/12 1840
Received by: (signature) C. Clough-Segall 5.1°C	Date/Time: 3/23/12 18:40

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 3/23/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.1°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	1	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	8
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0762
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0762-01 thru 12C0762-09

Matrices: Product/Solid Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/27/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

March 29, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0851

Enclosed are results of analyses for samples received by the laboratory on March 27, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 3/29/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0851

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-380	12C0851-01	Concrete		SW-846 8082A	
PH-VBC-381	12C0851-02	Concrete		SW-846 8082A	
PH-VBC-382	12C0851-03	Concrete		SW-846 8082A	
PH-VBC-383	12C0851-04	Concrete		SW-846 8082A	
PH-VBC-384	12C0851-05	Concrete		SW-846 8082A	
PH-VBC-385	12C0851-06	Concrete		SW-846 8082A	
PH-VBB-386	12C0851-07	Brick		SW-846 8082A	
PH-VBC-387	12C0851-08	Concrete		SW-846 8082A	
PH-VBC-388	12C0851-09	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0851

Date Received: 3/27/2012

Field Sample #: PH-VBC-380 | Sampled: 3/26/2012 15:10

Sample ID: 12C0851-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 19:10	PJG
Aroclor-1221 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 19:10	PJG
Aroclor-1232 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 19:10	PJG
Aroclor-1242 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 19:10	PJG
Aroclor-1248 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 19:10	PJG
Aroclor-1254 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 19:10	PJG
Aroclor-1260 [2]	0.10	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 19:10	PJG
Aroclor-1262 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 19:10	PJG
Aroclor-1268 [2]	0.13	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 19:10	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.5	30-150		3/28/12 19:10
Decachlorobiphenyl [2]	103	30-150		3/28/12 19:10
Tetrachloro-m-xylene [1]	92.8	30-150		3/28/12 19:10
Tetrachloro-m-xylene [2]	107	30-150		3/28/12 19:10

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0851

Date Received: 3/27/2012

Field Sample #: PH-VBC-381 | Sampled: 3/26/2012 15:25

Sample ID: 12C0851-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 13:50	PJG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 13:50	PJG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 13:50	PJG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 13:50	PJG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 13:50	PJG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 13:50	PJG
Aroclor-1260 [1]	2.4	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 13:50	PJG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 13:50	PJG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 13:50	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.8	30-150		3/29/12 13:50
Decachlorobiphenyl [2]	96.6	30-150		3/29/12 13:50
Tetrachloro-m-xylene [1]	101	30-150		3/29/12 13:50
Tetrachloro-m-xylene [2]	96.2	30-150		3/29/12 13:50

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0851

Date Received: 3/27/2012

Field Sample #: PH-VBC-382 | Sampled: 3/26/2012 17:00

Sample ID: 12C0851-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:02	PJG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:02	PJG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:02	PJG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:02	PJG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:02	PJG
Aroclor-1254 [1]	0.74	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:02	PJG
Aroclor-1260 [1]	2.5	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:02	PJG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:02	PJG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:02	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.4	30-150		3/29/12 14:02
Decachlorobiphenyl [2]	82.4	30-150		3/29/12 14:02
Tetrachloro-m-xylene [1]	87.7	30-150		3/29/12 14:02
Tetrachloro-m-xylene [2]	83.1	30-150		3/29/12 14:02

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0851

Date Received: 3/27/2012

Field Sample #: PH-VBC-383 | Sampled: 3/26/2012 15:35

Sample ID: 12C0851-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:15	PJG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:15	PJG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:15	PJG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:15	PJG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:15	PJG
Aroclor-1254 [1]	1.6	0.48	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:15	PJG
Aroclor-1260 [2]	2.4	0.48	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:15	PJG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:15	PJG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	3/27/12	3/29/12 14:15	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.0	30-150		3/29/12 14:15
Decachlorobiphenyl [2]	90.2	30-150		3/29/12 14:15
Tetrachloro-m-xylene [1]	94.2	30-150		3/29/12 14:15
Tetrachloro-m-xylene [2]	89.8	30-150		3/29/12 14:15

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0851

Date Received: 3/27/2012

Field Sample #: PH-VBC-384 | Sampled: 3/26/2012 16:30

Sample ID: 12C0851-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:01	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:01	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:01	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:01	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:01	PJG
Aroclor-1254 [1]	0.44	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:01	PJG
Aroclor-1260 [2]	0.23	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:01	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:01	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:01	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.7	30-150		3/28/12 20:01
Decachlorobiphenyl [2]	105	30-150		3/28/12 20:01
Tetrachloro-m-xylene [1]	93.6	30-150		3/28/12 20:01
Tetrachloro-m-xylene [2]	109	30-150		3/28/12 20:01

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0851

Date Received: 3/27/2012

Field Sample #: PH-VBC-385 | Sampled: 3/26/2012 17:30

Sample ID: 12C0851-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/27/12	3/29/12 14:27	PJG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/27/12	3/29/12 14:27	PJG
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/27/12	3/29/12 14:27	PJG
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/27/12	3/29/12 14:27	PJG
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/27/12	3/29/12 14:27	PJG
Aroclor-1254 [1]	2.5	1.0	mg/Kg	10		SW-846 8082A	3/27/12	3/29/12 14:27	PJG
Aroclor-1260 [1]	2.8	1.0	mg/Kg	10		SW-846 8082A	3/27/12	3/29/12 14:27	PJG
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/27/12	3/29/12 14:27	PJG
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	3/27/12	3/29/12 14:27	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.3	30-150		3/29/12 14:27
Decachlorobiphenyl [2]	82.5	30-150		3/29/12 14:27
Tetrachloro-m-xylene [1]	89.8	30-150		3/29/12 14:27
Tetrachloro-m-xylene [2]	82.1	30-150		3/29/12 14:27

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0851

Date Received: 3/27/2012

Field Sample #: PH-VBB-386 | Sampled: 3/27/2012 13:25

Sample ID: 12C0851-07

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:26	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:26	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:26	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:26	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:26	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:26	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:26	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:26	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 20:26	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	86.3	30-150		3/28/12 20:26
Decachlorobiphenyl [2]	97.9	30-150		3/28/12 20:26
Tetrachloro-m-xylene [1]	91.0	30-150		3/28/12 20:26
Tetrachloro-m-xylene [2]	105	30-150		3/28/12 20:26

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0851

Date Received: 3/27/2012

Field Sample #: PH-VBC-387 | Sampled: 3/27/2012 14:10

Sample ID: 12C0851-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:17	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:17	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:17	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:17	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:17	PJG
Aroclor-1254 [2]	0.12	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:17	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:17	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:17	PJG
Aroclor-1268 [2]	0.18	0.10	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:17	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.9	30-150		3/28/12 21:17
Decachlorobiphenyl [2]	117	30-150		3/28/12 21:17
Tetrachloro-m-xylene [1]	99.7	30-150		3/28/12 21:17
Tetrachloro-m-xylene [2]	116	30-150		3/28/12 21:17

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12C0851

Date Received: 3/27/2012

Field Sample #: PH-VBC-388 | Sampled: 3/27/2012 14:20

Sample ID: 12C0851-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:30	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:30	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:30	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:30	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:30	PJG
Aroclor-1254 [2]	0.14	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:30	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:30	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:30	PJG
Aroclor-1268 [2]	0.13	0.091	mg/Kg	1		SW-846 8082A	3/27/12	3/28/12 21:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.5	30-150		3/28/12 21:30
Decachlorobiphenyl [2]	106	30-150		3/28/12 21:30
Tetrachloro-m-xylene [1]	87.1	30-150		3/28/12 21:30
Tetrachloro-m-xylene [2]	100	30-150		3/28/12 21:30

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0851-01 [PH-VBC-380]	B048665	2.00	10.0	03/27/12
12C0851-02 [PH-VBC-381]	B048665	2.00	10.0	03/27/12
12C0851-03 [PH-VBC-382]	B048665	2.00	10.0	03/27/12
12C0851-04 [PH-VBC-383]	B048665	2.10	10.0	03/27/12
12C0851-05 [PH-VBC-384]	B048665	2.20	10.0	03/27/12
12C0851-06 [PH-VBC-385]	B048665	2.00	10.0	03/27/12
12C0851-07 [PH-VBB-386]	B048665	2.00	10.0	03/27/12
12C0851-08 [PH-VBC-387]	B048665	2.00	10.0	03/27/12
12C0851-09 [PH-VBC-388]	B048665	2.20	10.0	03/27/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048665 - SW-846 3540C										
Blank (B048665-BLK1)				Prepared: 03/27/12 Analyzed: 03/28/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.950*		mg/Kg	1.00		95.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.16*		mg/Kg	1.00		116	30-150			
LCS (B048665-BS1)				Prepared: 03/27/12 Analyzed: 03/28/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140			
Aroclor-1260	0.28	0.10	mg/Kg	0.250		114	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140			
Surrogate: Decachlorobiphenyl	*0.873*		mg/Kg	1.00		87.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.985*		mg/Kg	1.00		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.923*		mg/Kg	1.00		92.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			
LCS Dup (B048665-BSD1)				Prepared: 03/27/12 Analyzed: 03/28/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		111	40-140	0.375	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140	0.991	30	
Aroclor-1260	0.29	0.10	mg/Kg	0.250		115	40-140	1.31	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		114	40-140	1.30	30	
Surrogate: Decachlorobiphenyl	*0.888*		mg/Kg	1.00		88.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.925*		mg/Kg	1.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.08*		mg/Kg	1.00		108	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048665 - SW-846 3540C										
Matrix Spike (B048665-MS1)		**Source: 12C0851-01**		Prepared: 03/27/12 Analyzed: 03/28/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250	0.0	103	40-140			
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250	0.0	114	40-140			
Aroclor-1260	0.40	0.10	mg/Kg	0.250	0.098	120	40-140			
Aroclor-1260 [2C]	0.40	0.10	mg/Kg	0.250	0.10	119	40-140			
Surrogate: Decachlorobiphenyl	*0.911*		mg/Kg	1.00		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Tetrachloro-m-xylene	*0.856*		mg/Kg	1.00		85.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.991*		mg/Kg	1.00		99.1	30-150			
Matrix Spike Dup (B048665-MSD1)		**Source: 12C0851-01**		Prepared: 03/27/12 Analyzed: 03/28/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250	0.0	99.9	40-140	2.74	50	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250	0.0	111	40-140	3.06	50	
Aroclor-1260	0.37	0.10	mg/Kg	0.250	0.098	110	40-140	6.11	50	
Aroclor-1260 [2C]	0.38	0.10	mg/Kg	0.250	0.10	109	40-140	6.01	50	
Surrogate: Decachlorobiphenyl	*0.878*		mg/Kg	1.00		87.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.812*		mg/Kg	1.00		81.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.939*		mg/Kg	1.00		93.9	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1 of 1

12C0851

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax# jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C	ANALYSIS REQUESTED
01	PH-VBC-380	3/26/12	1510						Func Hall Sill @ 6-7"
02	PH-VBC-381	↓	1525						Rm 108 Sill @ 6-7"
03	PH-VBC-382		1700						Bsmt-Header @ 6-7"
04	PH-VBC-383		1535						Bsmt-Vert CMU @ 12-13"
05	PH-VBC-384		1630						Rm 334, IIA @ 7-8"
06	PH-VBC-385		1730						Bsmt-Vert Poured @ 12-13"
07	PH-VBB-386	3/27/12	1325						Ext-6th Brick-Elec D
08	PH-VBC-387		1410						Sill Below @ 3"
09	PH-VBC-388		1420						Sill Above @ 3"

3/27/12

Comments: ① EPA 8082 via 3540 Soxhlet Ext ② RL ≤ 1mg/kg ③ C = CONCRETE/B = BRICK ④ Lab does not need to enter description

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 3/27/12 1505
Received by: (signature) Seph Malfa	Date/Time: 3.27.12 1525
Relinquished by: (signature) Seph Malfa	Date/Time: 3.27.12 1800
Received by: (signature) [signature]	Date/Time: 5:4 3/27 1800

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

nelac AIHA
NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: SD DATE: 3/27/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.4

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	9
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12C0851-01 PH-VBC-380

Analyte	Results		%RPD
Aroclor-1268 [2C]	0.13	0.11911	8.74
Aroclor-1260 [2C]	0.10	0.09828	1.73
Surrogates			
Decachlorobiphenyl [2C]	1.03	0.90548	12.9
Tetrachloro-m-xylene [2C]	1.07	0.92845	14.2

12C0851-02 PH-VBC-381

Analyte	Results		%RPD
Aroclor-1260	2.4	2.286425	4.85
Surrogates			
Decachlorobiphenyl	0.958	0.9661	0.842
Tetrachloro-m-xylene	1.01	0.962125	4.86

12C0851-03 PH-VBC-382

Analyte	Results		%RPD
Aroclor-1254	0.74	0.64475	13.8
Aroclor-1260	2.5	2.4452	2.22
Surrogates			
Decachlorobiphenyl	0.814	0.824075	1.23
Tetrachloro-m-xylene	0.877	0.830575	5.44

12C0851-04 PH-VBC-383

Analyte	Results		%RPD
Aroclor-1254	1.6	1.422167	11.8
Aroclor-1260 [2C]	2.4	2.330357	2.94
Surrogates			
Tetrachloro-m-xylene	0.897	0.8548334	4.81
Decachlorobiphenyl	0.848	0.8587858	1.26

12C0851-05 PH-VBC-384

Analyte	Results		%RPD
Aroclor-1254	0.44	0.43055	2.17
Aroclor-1260 [2C]	0.23	0.2309409	0.408
Surrogates			
Decachlorobiphenyl	0.816	0.9576636	16
Tetrachloro-m-xylene	0.851	0.9891363	15

12C0851-06 PH-VBC-385

Analyte	Results		%RPD
Aroclor-1254	2.5	2.2143	12.1
Aroclor-1260	2.8	2.75265	1.71
Surrogates			
Decachlorobiphenyl	0.813	0.82535	1.51
Tetrachloro-m-xylene	0.898	0.8214	8.91

12C0851-07 PH-VBB-386

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.910	1.046435	13.9
Decachlorobiphenyl	0.863	0.97912	12.6

12C0851-08 PH-VBC-387

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.12	0.1141	5.04
Aroclor-1268 [2C]	0.18	0.159635	12
Surrogates			
Decachlorobiphenyl	0.979	1.17447	18.2
Tetrachloro-m-xylene	0.997	1.15816	15

12C0851-09 PH-VBC-388

Analyte	Results		%RPD

Aroclor-1254 [2C]	0.14	0.1391182	0.632
Aroclor-1268 [2C]	0.13	0.1147045	12.5
Surrogates			
Decachlorobiphenyl	0.813	0.9642091	17
Tetrachloro-m-xylene	0.792	0.9096954	13.8

B048665-BLK1 Blank

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.950	1.090205	13.7
Tetrachloro-m-xylene	1.00	1.157485	14.6

B048665-BS1 LCS

Analyte		Results	%RPD
Aroclor-1260	0.28	0.28238	0.846
Aroclor-1016	0.28	0.28358	1.27
Surrogates			
Decachlorobiphenyl	0.873	0.98503	12.1
Tetrachloro-m-xylene	0.923	1.06708	14.5

B048665-BSD1 LCS Dup

Analyte		Results	%RPD
Aroclor-1260	0.29	0.286085	1.36
Aroclor-1016	0.28	0.286405	2.26
Surrogates			
Decachlorobiphenyl	0.888	1.020845	13.9
Tetrachloro-m-xylene	0.925	1.075725	15.1

B048665-MS1 Matrix Spike

Analyte		Results	%RPD
Aroclor-1016	0.26	0.285465	9.34
Aroclor-1260	0.40	0.4015	0.374
Surrogates			
Decachlorobiphenyl	0.911	1.105835	19.3
Tetrachloro-m-xylene	0.856	0.991045	14.6

B048665-MSD1 Matrix Spike Dup

Analyte		Results	%RPD
Aroclor-1016	0.25	0.276865	10.2
Aroclor-1260	0.37	0.37809	2.16
Surrogates			
Tetrachloro-m-xylene	0.812	0.93911	14.5
Decachlorobiphenyl	0.878	1.01687	14.7

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0851
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0851-01 thru 12C0851-09

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 03/29/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 2, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ - Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12C0977

Enclosed are results of analyses for samples received by the laboratory on March 29, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 4/2/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12C0977

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

PROJECT LOCATION: Harvard Univ - Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBB-393	12C0977-01	Brick		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1016

B048837-BS1, B048837-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12C0977

Date Received: 3/29/2012

Field Sample #: PH-VBB-393 | Sampled: 3/29/2012 14:05

Sample ID: 12C0977-01

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.38	mg/Kg	4		SW-846 8082A	3/29/12	3/30/12 17:25	MJC
Aroclor-1221 [1]	ND	0.38	mg/Kg	4		SW-846 8082A	3/29/12	3/30/12 17:25	MJC
Aroclor-1232 [1]	ND	0.38	mg/Kg	4		SW-846 8082A	3/29/12	3/30/12 17:25	MJC
Aroclor-1242 [1]	ND	0.38	mg/Kg	4		SW-846 8082A	3/29/12	3/30/12 17:25	MJC
Aroclor-1248 [1]	ND	0.38	mg/Kg	4		SW-846 8082A	3/29/12	3/30/12 17:25	MJC
Aroclor-1254 [1]	ND	0.38	mg/Kg	4		SW-846 8082A	3/29/12	3/30/12 17:25	MJC
Aroclor-1260 [1]	ND	0.38	mg/Kg	4		SW-846 8082A	3/29/12	3/30/12 17:25	MJC
Aroclor-1262 [1]	ND	0.38	mg/Kg	4		SW-846 8082A	3/29/12	3/30/12 17:25	MJC
Aroclor-1268 [1]	2.8	0.38	mg/Kg	4		SW-846 8082A	3/29/12	3/30/12 17:25	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		3/30/12 17:25
Decachlorobiphenyl [2]	104	30-150		3/30/12 17:25
Tetrachloro-m-xylene [1]	108	30-150		3/30/12 17:25
Tetrachloro-m-xylene [2]	101	30-150		3/30/12 17:25

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12C0977-01 [PH-VBB-393]	B048837	2.10	10.0	03/29/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B048837 - SW-846 3540C										
Blank (B048837-BLK1)				Prepared: 03/29/12 Analyzed: 03/30/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			
LCS (B048837-BS1)				Prepared: 03/29/12 Analyzed: 03/30/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		112	40-140			V-06
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		99.8	40-140			
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.975*		mg/Kg	1.00		97.5	30-150			
LCS Dup (B048837-BSD1)				Prepared: 03/29/12 Analyzed: 03/30/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		104	40-140	7.31	30	V-06
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		98.1	40-140	6.59	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		98.8	40-140	6.07	30	
Aroclor-1260 [2C]	0.23	0.10	mg/Kg	0.250		93.4	40-140	6.67	30	
Surrogate: Decachlorobiphenyl	*0.931*		mg/Kg	1.00		93.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.959*		mg/Kg	1.00		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.944*		mg/Kg	1.00		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.909*		mg/Kg	1.00		90.9	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2012
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

120977

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A. Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax #: jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes) RUSH
✓ yes 2011 1211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C										# of Containers / ** Preservation / ***Container Co
01	PH-VBB-393	3/29/12	1405			B	U	✓			Ext brick	(E)	5th brick	2nd Flr				

3/29/12 KM

3/29/12 KM

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082 via 3540C Soxhlet ② RL ≤ 1mg/kg ③ B=Brick ④ Lab does not need to include description ⑤ RUSH 48 Hr TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
K. Rinard	3/29/12 1955
Received by: (signature)	Date/Time: 3/29/12 1955
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

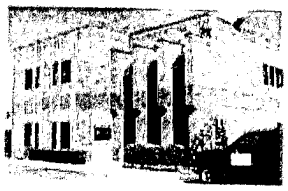
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C. **DATE:** 3/29/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice [✓] c.c.s. Direct from Sampling [✓] Ambient [✓] In Cooler(s) [✓] c.c.s.

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 19.5°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12C0943-03 CP-3

Analyte	Results		%RPD
Aroclor-1254 [2C]	1.9	2.022334	6.24
Aroclor-1260 [2C]	1.1	1.083	1.56
Aroclor-1248 [2C]	1.3	1.02081	24.1
Surrogates			
Decachlorobiphenyl	1.28	1.339429	4.54
Tetrachloro-m-xylene	1.07	0.9968334	7.08

12C0977-01 PH-VBB-393

Analyte	Results		%RPD
Aroclor-1268	2.8	2.645733	5.67
Surrogates			
Decachlorobiphenyl	1.01	0.9914096	1.86
Tetrachloro-m-xylene	1.03	0.9589905	7.14

B048837-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.06	1.09008	2.8
Tetrachloro-m-xylene	1.06	1.028635	3

B048837-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.28	0.261835	6.7
Aroclor-1260	0.26	0.24959	4.09
Surrogates			
Tetrachloro-m-xylene	1.01	0.97536	3.49
Decachlorobiphenyl	1.00	1.035045	3.44

B048837-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.26	0.245135	5.89
Aroclor-1260	0.25	0.233485	6.83
Surrogates			
Decachlorobiphenyl	0.931	0.959205	2.98
Tetrachloro-m-xylene	0.944	0.90931	3.74

B048837-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.74	0.91329	21
Aroclor-1260	1.5	1.430915	4.71
Surrogates			
Decachlorobiphenyl	0.856	0.888585	3.74
Tetrachloro-m-xylene	0.996	0.944185	5.34

B048837-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.65	0.774615	17.5
Aroclor-1260	1.2	1.18595	1.18
Surrogates			
Tetrachloro-m-xylene	0.919	0.87375	5.05
Decachlorobiphenyl	0.790	0.815275	3.15

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12C0977
Project Location: Harvard Univ - Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12C0977-01

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 04/02/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 5, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0050

Enclosed are results of analyses for samples received by the laboratory on April 3, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 4/5/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0050

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

PROJECT LOCATION: Harv. Univ Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-394	12D0050-01	Concrete		SW-846 8082A	
PH-VBC-395	12D0050-02	Concrete		SW-846 8082A	
PH-VBC-396	12D0050-03	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Harv. Univ Pound Hall | Sample Description: | Work Order: 12D0050

Date Received: 4/3/2012

Field Sample #: PH-VBC-394 | Sampled: 4/2/2012 15:30

Sample ID: 12D0050-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/3/12	4/5/12 10:33	MJC
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/3/12	4/5/12 10:33	MJC
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/3/12	4/5/12 10:33	MJC
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/3/12	4/5/12 10:33	MJC
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/3/12	4/5/12 10:33	MJC
Aroclor-1254 [1]	1.2	0.50	mg/Kg	5		SW-846 8082A	4/3/12	4/5/12 10:33	MJC
Aroclor-1260 [1]	2.1	0.50	mg/Kg	5		SW-846 8082A	4/3/12	4/5/12 10:33	MJC
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/3/12	4/5/12 10:33	MJC
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/3/12	4/5/12 10:33	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.1	30-150		4/5/12 10:33
Decachlorobiphenyl [2]	90.6	30-150		4/5/12 10:33
Tetrachloro-m-xylene [1]	102	30-150		4/5/12 10:33
Tetrachloro-m-xylene [2]	112	30-150		4/5/12 10:33

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Project Location: Harv. Univ Pound Hall | Sample Description: | Work Order: 12D0050

Date Received: 4/3/2012

Field Sample #: PH-VBC-395 | Sampled: 4/2/2012 15:45

Sample ID: 12D0050-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 10:47	MJC
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 10:47	MJC
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 10:47	MJC
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 10:47	MJC
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 10:47	MJC
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 10:47	MJC
Aroclor-1260 [2]	4.1	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 10:47	MJC
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 10:47	MJC
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 10:47	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.7	30-150		4/5/12 10:47
Decachlorobiphenyl [2]	91.5	30-150		4/5/12 10:47
Tetrachloro-m-xylene [1]	92.6	30-150		4/5/12 10:47
Tetrachloro-m-xylene [2]	102	30-150		4/5/12 10:47

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Project Location: Harv. Univ Pound Hall | Sample Description: | Work Order: 12D0050

Date Received: 4/3/2012

Field Sample #: PH-VBC-396 | Sampled: 4/3/2012 12:30

Sample ID: 12D0050-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 11:01	MJC
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 11:01	MJC
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 11:01	MJC
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 11:01	MJC
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 11:01	MJC
Aroclor-1254 [2]	2.2	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 11:01	MJC
Aroclor-1260 [1]	4.2	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 11:01	MJC
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 11:01	MJC
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/3/12	4/5/12 11:01	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		4/5/12 11:01
Decachlorobiphenyl [2]	98.4	30-150		4/5/12 11:01
Tetrachloro-m-xylene [1]	104	30-150		4/5/12 11:01
Tetrachloro-m-xylene [2]	115	30-150		4/5/12 11:01

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Sample Extraction Data

Prep Method: SW-846 3545-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0050-01 [PH-VBC-394]	B049066	2.00	10.0	04/03/12
12D0050-02 [PH-VBC-395]	B049066	2.00	10.0	04/03/12
12D0050-03 [PH-VBC-396]	B049066	2.00	10.0	04/03/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B049066 - SW-846 3545										
Blank (B049066-BLK1)				Prepared: 04/03/12 Analyzed: 04/04/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.897*		mg/Kg	1.00		89.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.822*		mg/Kg	1.00		82.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.903*		mg/Kg	1.00		90.3	30-150			
LCS (B049066-BS1)				Prepared: 04/03/12 Analyzed: 04/04/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		111	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1260	0.29	0.10	mg/Kg	0.250		115	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		110	40-140			
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.19*		mg/Kg	1.00		119	30-150			
Surrogate: Tetrachloro-m-xylene	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			
LCS Dup (B049066-BSD1)				Prepared: 04/03/12 Analyzed: 04/04/12						
Aroclor-1016	0.29	0.10	mg/Kg	0.250		116	40-140	4.34	30	
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		118	40-140	5.63	30	
Aroclor-1260	0.30	0.10	mg/Kg	0.250		118	40-140	2.88	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		114	40-140	3.50	30	
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.22*		mg/Kg	1.00		122	30-150			
Surrogate: Tetrachloro-m-xylene	*0.995*		mg/Kg	1.00		99.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		mg/Kg	1.00		112	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1200050

Company Name: Woodard + Curran
Address: 41 Hutchins Drive, Portland, ME
Attention: J Harmel, A Wallace
Project Location: Harv. Univ Round Hill
Sampled By: Kim Rinard

Project Proposal Provided? (for billing purposes)
✓ yes 20111121 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax # jharmel@woodardcurran.com
Email: awallace@[illegible]
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	ANALYSIS REQUESTED: EPA 8082/3540C
01	PH-VBL-394	4/2/12	1530			C	UNK	1	I	G	✓
02	PH-VBL-395	↓	1545			C	UNK	1	I	G	✓
03	PH-VBL-396	4/3/12	1230			C	UNK	1	I	G	✓

Run samples ↓ ↓ ↓

-394 Vent Bsmt @ 24-25"
-395 Bsmt Hallway @ 12-13"
-396 Bsmt Vent @ 24-25"

4/2/12

Comments: ① EPA 8082/3540C Soxhlet prep ② RL ≤ 1 mg/kg ③ Concrete = C ④ Lab does not need to include description ⑤ All samples ACTIVE

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	Date/Time:
Karl K. Rinard	4/3/12 1320
Received by: (signature) Paul Racicot	Date/Time: 4/3/12 1320
Relinquished by: (signature) Paul Racicot	Date/Time: 4/3/12 18:15
Received by: (signature)	Date/Time: 4/3 18:15

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1 mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** SD **DATE:** 4/3/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.9

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	3
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0050
Project Location: Harv. Univ Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0050-01 thru 12D0050-03

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 04/05/12

con-test® ANALYTICAL LABORATORY
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May 14, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Pound Hall - Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0315

Enclosed are results of analyses for samples received by the laboratory on April 10, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/14/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0315

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

PROJECT LOCATION: Pound Hall - Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-397	12D0315-01	Product/Solid		SW-846 8082A	
PH-VBB-398	12D0315-02	Product/Solid		SW-846 8082A	

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

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 05/14/2012 - Sample ID for 12D0315-02 revised.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Project Chemist

con-test® ANALYTICAL LABORATORY

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

Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12D0315

Date Received: 4/10/2012

Field Sample #: PH-VBC-397 | Sampled: 4/9/2012 12:45

Sample ID: 12D0315-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	4/10/12	4/12/12 16:09	MJC
Aroclor-1221 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	4/10/12	4/12/12 16:09	MJC
Aroclor-1232 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	4/10/12	4/12/12 16:09	MJC
Aroclor-1242 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	4/10/12	4/12/12 16:09	MJC
Aroclor-1248 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	4/10/12	4/12/12 16:09	MJC
Aroclor-1254 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	4/10/12	4/12/12 16:09	MJC
Aroclor-1260 [2]	3.9	0.91	mg/Kg	10		SW-846 8082A	4/10/12	4/12/12 16:09	MJC
Aroclor-1262 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	4/10/12	4/12/12 16:09	MJC
Aroclor-1268 [1]	ND	0.91	mg/Kg	10		SW-846 8082A	4/10/12	4/12/12 16:09	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		4/12/12 16:09
Decachlorobiphenyl [2]	103	30-150		4/12/12 16:09
Tetrachloro-m-xylene [1]	102	30-150		4/12/12 16:09
Tetrachloro-m-xylene [2]	99.6	30-150		4/12/12 16:09

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

Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12D0315

Date Received: 4/10/2012

Field Sample #: PH-VBB-398 | Sampled: 4/9/2012 16:10

Sample ID: 12D0315-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/10/12	4/12/12 16:22	MJC
Aroclor-1221 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/10/12	4/12/12 16:22	MJC
Aroclor-1232 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/10/12	4/12/12 16:22	MJC
Aroclor-1242 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/10/12	4/12/12 16:22	MJC
Aroclor-1248 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/10/12	4/12/12 16:22	MJC
Aroclor-1254 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/10/12	4/12/12 16:22	MJC
Aroclor-1260 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/10/12	4/12/12 16:22	MJC
Aroclor-1262 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/10/12	4/12/12 16:22	MJC
Aroclor-1268 [2]	3.5	0.43	mg/Kg	5		SW-846 8082A	4/10/12	4/12/12 16:22	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	119	30-150		4/12/12 16:22
Decachlorobiphenyl [2]	112	30-150		4/12/12 16:22
Tetrachloro-m-xylene [1]	104	30-150		4/12/12 16:22
Tetrachloro-m-xylene [2]	102	30-150		4/12/12 16:22

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0315-01 [PH-VBC-397]	B049481	2.20	10.0	04/10/12
12D0315-02 [PH-VBB-398]	B049481	2.30	10.0	04/10/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B049481 - SW-846 3540C										
Blank (B049481-BLK1)				Prepared: 04/10/12 Analyzed: 04/11/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.970*		mg/Kg	1.00		97.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.936*		mg/Kg	1.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			
LCS (B049481-BS1)				Prepared: 04/10/12 Analyzed: 04/11/12						
Aroclor-1016	0.29	0.10	mg/Kg	0.250		117	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		120	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		110	40-140			
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250		120	40-140			
Surrogate: Decachlorobiphenyl	*1.31*		mg/Kg	1.00		131	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Tetrachloro-m-xylene	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.20*		mg/Kg	1.00		120	30-150			
LCS Dup (B049481-BSD1)				Prepared: 04/10/12 Analyzed: 04/11/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		106	40-140	9.91	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		110	40-140	8.94	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.8	40-140	12.3	30	
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		107	40-140	11.2	30	
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.974*		mg/Kg	1.00		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1 of 1

12D0315

Company Name: Woodard Curran
Address: 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J Harned, A Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard

Project Proposal Provided? (for billing purposes)
☑ yes 2011211 proposal date

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax #~~ jharned@woodardcurran.com
Email: awallace@ " " " "
Format: ☑ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

| Con-Test Lab ID (laboratory use only) | Client Sample ID / Description | Collection Beginning Date/Time | Collection Ending Date/Time | Composite | Grab | *Matrix Code | Conc Code | EPA 8082/3540C | | |

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** CFC **DATE:** 4/10/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.4c

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12C0994-01 KCL-CBB-036

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.47	0.442515	6.02
Surrogates			
Decachlorobiphenyl	1.02	0.95937	6.13
Tetrachloro-m-xylene	0.918	1.00743	9.29

12D0315-01 PH-VBC-397

Analyte	Results		%RPD
Aroclor-1260 [2C]	3.9	3.847909	1.34
Surrogates			
Decachlorobiphenyl	0.976	0.9345	4.34
Tetrachloro-m-xylene	0.926	0.9050909	2.28

12D0315-02 PH-VBC-398

Analyte	Results		%RPD
Aroclor-1268 [2C]	3.5	3.346891	4.47
Surrogates			
Decachlorobiphenyl	1.04	0.9707391	6.89
Tetrachloro-m-xylene	0.903	0.889413	1.52

B049481-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.07	0.969545	9.85
Tetrachloro-m-xylene	0.936	1.02624	9.2

B049481-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.29	0.300265	3.48
Aroclor-1260	0.27	0.299345	10.3
Surrogates			
Tetrachloro-m-xylene	1.10	1.203475	8.98
Decachlorobiphenyl	1.31	1.168935	11.4

B049481-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.27	0.27458	1.68
Aroclor-1260	0.24	0.26771	10.9
Surrogates			
Decachlorobiphenyl	1.11	1.013925	9.05
Tetrachloro-m-xylene	0.974	1.06851	9.25

B049481-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.28	0.31801	12.7
Aroclor-1260	0.59	0.468235	23
Surrogates			
Decachlorobiphenyl	1.13	1.066795	5.75
Tetrachloro-m-xylene	1.02	1.11854	9.22

B049481-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.27	0.294935	8.83
Aroclor-1260	0.33	0.34346	4
Surrogates			
Tetrachloro-m-xylene	0.981	1.073935	9.05
Decachlorobiphenyl	1.09	1.023285	6.31

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0315
Project Location: Pound Hall - Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0315-01 thru 12D0315-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 04/12/12

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

May 14, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ - Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0378

Enclosed are results of analyses for samples received by the laboratory on April 11, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/14/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0378

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

PROJECT LOCATION: Harvard Univ - Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBQ-399	12D0378-01	Water		SW-846 8082A	
PH-VBC-400	12D0378-02	Concrete		SW-846 8082A	
PH-VBCD-401	12D0378-03	Concrete		SW-846 8082A	
PH-VBC-402	12D0378-04	Concrete		SW-846 8082A	
PH-VBC-403	12D0378-05	Concrete		SW-846 8082A	
PH-VBC-404	12D0378-06	Concrete		SW-846 8082A	

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

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 05/14/2012 - Sample ID for 12D0378-03 revised.

Login

Qualifications:

Samples were received directly from sampling in the field on ice.

Analyte & Samples(s) Qualified:

12D0378-01[PH-VBQ-399], 12D0378-02[PH-VBC-400], 12D0378-03[PH-VBCD-401], 12D0378-04[PH-VBC-402], 12D0378-05[PH-VBC-403], 12D0378-06[PH-VBC-404]

SW-846 8082A

Qualifications:

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B049580-MS1, B049580-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Project Chemist

con-test® ANALYTICAL LABORATORY

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

Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12D0378

Date Received: 4/11/2012

Field Sample #: PH-VBQ-399 | Sampled: 4/11/2012 13:45

Sample ID: 12D0378-01

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/11/12	4/12/12 16:50	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/11/12	4/12/12 16:50	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/11/12	4/12/12 16:50	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/11/12	4/12/12 16:50	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/11/12	4/12/12 16:50	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/11/12	4/12/12 16:50	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/11/12	4/12/12 16:50	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/11/12	4/12/12 16:50	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/11/12	4/12/12 16:50	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	42.1	30-150		4/12/12 16:50
Decachlorobiphenyl [2]	50.5	30-150		4/12/12 16:50
Tetrachloro-m-xylene [1]	66.9	30-150		4/12/12 16:50
Tetrachloro-m-xylene [2]	82.1	30-150		4/12/12 16:50

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

Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12D0378

Date Received: 4/11/2012

Field Sample #: PH-VBC-400 | Sampled: 4/11/2012 14:10

Sample ID: 12D0378-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:24	MJC
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:24	MJC
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:24	MJC
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:24	MJC
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:24	MJC
Aroclor-1254 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:24	MJC
Aroclor-1260 [1]	3.7	0.45	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:24	MJC
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:24	MJC
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:24	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.6	30-150		4/13/12 6:24
Decachlorobiphenyl [2]	110	30-150		4/13/12 6:24
Tetrachloro-m-xylene [1]	106	30-150		4/13/12 6:24
Tetrachloro-m-xylene [2]	117	30-150		4/13/12 6:24

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

Project Location: Harvard Univ - Pound Hall
Sample Description:
Work Order: 12D0378

Date Received: 4/11/2012

Field Sample #: PH-VBCD-401
Sampled: 4/11/2012 14:10

Sample ID: 12D0378-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:38	MJC
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:38	MJC
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:38	MJC
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:38	MJC
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:38	MJC
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:38	MJC
Aroclor-1260 [1]	3.3	0.50	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:38	MJC
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:38	MJC
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/11/12	4/13/12 6:38	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.1	30-150		4/13/12 6:38
Decachlorobiphenyl [2]	107	30-150		4/13/12 6:38
Tetrachloro-m-xylene [1]	103	30-150		4/13/12 6:38
Tetrachloro-m-xylene [2]	115	30-150		4/13/12 6:38

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

Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12D0378

Date Received: 4/11/2012

Field Sample #: PH-VBC-402 | Sampled: 4/11/2012 14:35

Sample ID: 12D0378-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	4/11/12	4/13/12 6:52	MJC
Aroclor-1221 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	4/11/12	4/13/12 6:52	MJC
Aroclor-1232 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	4/11/12	4/13/12 6:52	MJC
Aroclor-1242 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	4/11/12	4/13/12 6:52	MJC
Aroclor-1248 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	4/11/12	4/13/12 6:52	MJC
Aroclor-1254 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	4/11/12	4/13/12 6:52	MJC
Aroclor-1260 [1]	15	1.9	mg/Kg	20		SW-846 8082A	4/11/12	4/13/12 6:52	MJC
Aroclor-1262 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	4/11/12	4/13/12 6:52	MJC
Aroclor-1268 [1]	ND	1.9	mg/Kg	20		SW-846 8082A	4/11/12	4/13/12 6:52	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.1	30-150		4/13/12 6:52
Decachlorobiphenyl [2]	117	30-150		4/13/12 6:52
Tetrachloro-m-xylene [1]	102	30-150		4/13/12 6:52
Tetrachloro-m-xylene [2]	115	30-150		4/13/12 6:52

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

Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12D0378

Date Received: 4/11/2012

Field Sample #: PH-VBC-403 | Sampled: 4/11/2012 15:35

Sample ID: 12D0378-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:17	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:17	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:17	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:17	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:17	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:17	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:17	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:17	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:17	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.8	30-150		4/13/12 2:17
Decachlorobiphenyl [2]	113	30-150		4/13/12 2:17
Tetrachloro-m-xylene [1]	104	30-150		4/13/12 2:17
Tetrachloro-m-xylene [2]	115	30-150		4/13/12 2:17

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

Project Location: Harvard Univ - Pound Hall | Sample Description: | Work Order: 12D0378

Date Received: 4/11/2012

Field Sample #: PH-VBC-404 | Sampled: 4/11/2012 18:20

Sample ID: 12D0378-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:31	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:31	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:31	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:31	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:31	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:31	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:31	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:31	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/11/12	4/13/12 2:31	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.0	30-150		4/13/12 2:31
Decachlorobiphenyl [2]	115	30-150		4/13/12 2:31
Tetrachloro-m-xylene [1]	105	30-150		4/13/12 2:31
Tetrachloro-m-xylene [2]	116	30-150		4/13/12 2:31

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

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0378-02 [PH-VBC-400]	B049580	2.20	10.0	04/11/12
12D0378-03 [PH-VBCD-401]	B049580	2.00	10.0	04/11/12
12D0378-04 [PH-VBC-402]	B049580	2.10	10.0	04/11/12
12D0378-05 [PH-VBC-403]	B049580	2.00	10.0	04/11/12
12D0378-06 [PH-VBC-404]	B049580	2.00	10.0	04/11/12

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12D0378-01 [PH-VBQ-399]	B049576	1000	10.0	04/11/12

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

QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B049576 - SW-846 3510C										
Blank (B049576-BLK1)				Prepared: 04/11/12 Analyzed: 04/12/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.04*		µg/L	2.00		52.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.42*		µg/L	2.00		71.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.41*		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.74*		µg/L	2.00		87.1	30-150			
LCS (B049576-BS1)				Prepared: 04/11/12 Analyzed: 04/12/12						
Aroclor-1016	0.41	0.20	µg/L	0.500		81.7	40-140			
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		94.2	40-140			
Aroclor-1260	0.41	0.20	µg/L	0.500		81.1	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500		92.1	40-140			
Surrogate: Decachlorobiphenyl	*1.19*		µg/L	2.00		59.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.53*		µg/L	2.00		76.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.40*		µg/L	2.00		69.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.71*		µg/L	2.00		85.5	30-150			
LCS Dup (B049576-BSD1)				Prepared: 04/11/12 Analyzed: 04/12/12						
Aroclor-1016	0.47	0.20	µg/L	0.500		94.5	40-140	14.5	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		102	40-140	7.66	20	
Aroclor-1260	0.43	0.20	µg/L	0.500		85.4	40-140	5.16	20	
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500		97.5	40-140	5.78	20	
Surrogate: Decachlorobiphenyl	*1.21*		µg/L	2.00		60.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.55*		µg/L	2.00		77.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.53*		µg/L	2.00		76.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.88*		µg/L	2.00		94.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B049580 - SW-846 3540C										
Blank (B049580-BLK1)				Prepared: 04/11/12 Analyzed: 04/13/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.887*		mg/Kg	1.00		88.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.18*		mg/Kg	1.00		118	30-150			
LCS (B049580-BS1)				Prepared: 04/11/12 Analyzed: 04/13/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		111	40-140			
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		108	40-140			
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		100	40-140			
Surrogate: Decachlorobiphenyl	*0.825*		mg/Kg	1.00		82.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.984*		mg/Kg	1.00		98.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.26*		mg/Kg	1.00		126	30-150			
LCS Dup (B049580-BSD1)				Prepared: 04/11/12 Analyzed: 04/13/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		113	40-140	2.08	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140	0.621	30	
Aroclor-1260	0.28	0.10	mg/Kg	0.250		114	40-140	5.80	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140	4.98	30	
Surrogate: Decachlorobiphenyl	*0.870*		mg/Kg	1.00		87.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.19*		mg/Kg	1.00		119	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B049580 - SW-846 3540C											
Matrix Spike (B049580-MS1)		**Source: 12D0378-02**		Prepared: 04/11/12 Analyzed: 04/13/12							
Aroclor-1016	0.27	0.10	mg/Kg	0.250	0.0	109		40-140			
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250	0.0	133		40-140			
Aroclor-1260	3.5	0.10	mg/Kg	0.250	3.7	**-83.1**	*	40-140			MS-19
Aroclor-1260 [2C]	3.3	0.10	mg/Kg	0.250	3.4	**-35.8**	*	40-140			MS-19
Surrogate: Decachlorobiphenyl	*0.966*		mg/Kg	1.00		96.6		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.16*		mg/Kg	1.00		116		30-150			
Surrogate: Tetrachloro-m-xylene	*1.11*		mg/Kg	1.00		111		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.23*		mg/Kg	1.00		123		30-150			
Matrix Spike Dup (B049580-MSD1)		**Source: 12D0378-02**		Prepared: 04/11/12 Analyzed: 04/13/12							
Aroclor-1016	0.32	0.10	mg/Kg	0.250	0.0	127		40-140	15.8	50	
Aroclor-1016 [2C]	0.32	0.10	mg/Kg	0.250	0.0	128		40-140	3.91	50	
Aroclor-1260	3.4	0.10	mg/Kg	0.250	3.7	**-122**	*	40-140	2.83	50	MS-19
Aroclor-1260 [2C]	3.3	0.10	mg/Kg	0.250	3.4	**-48.4**	*	40-140	0.956	50	MS-19
Surrogate: Decachlorobiphenyl	*0.951*		mg/Kg	1.00		95.1		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.14*		mg/Kg	1.00		114		30-150			
Surrogate: Tetrachloro-m-xylene	*1.12*		mg/Kg	1.00		112		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.23*		mg/Kg	1.00		123		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
T-06	Samples were received directly from sampling in the field on ice.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,NC,ME
Aroclor-1221	CT,NH,NY,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,NC,ME
Aroclor-1232	CT,NH,NY,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,NC,ME
Aroclor-1242	CT,NH,NY,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,NC,ME
Aroclor-1248	CT,NH,NY,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,NC,ME
Aroclor-1254	CT,NH,NY,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,NC,ME
Aroclor-1260	CT,NH,NY,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com
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East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

12D0378

Page 1 of 1

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J Hamel, A Wallace
Project Location: Harvard Univ - Pound Hall
Sampled By: Kim Rinard

Project Proposal Provided? (for billing purposes)
☑ yes 2011 1211 proposal date

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C	EPA 8082 PCBs Aqueous	
								1	1	# of Containers
								I	I	** Preservation
								G	G	***Container Code
01	PH-VBQ-399	4/11/12	1345			AQ	Unk	✓	✓	Mech Rm - Vent 12-13" - Unpainted
02	PH-VBC-400	↓	1410			C	Unk	✓		↵ and Duplicate
03	PH-VBCD-401	↓	1410			C	Unk	✓		
04	PH-VBC-402	↓	1435			C	Unk	✓		Mech Rm - Header @ 5-6"
05	PH-VBC-403	↓	1535			C	Unk	✓		Elev H - Concrete - Depth Verification
06	PH-VBC-404	4/11/12	1820			C	Unk	✓		Bsmt Depth @ 1.0-1.5"

4/11/12 KM
4/17/12 KM

Comments: ① EPA 8082/3540C Soxhlet ② RL's @ ≤ 1mg/kg ③ C=Concrete
④ Lab does not need to include description
ON ICE

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	Date/Time: 17.6°C 4/11/12 2100
Received by: (signature) C. Clough-Segall	Date/Time: 4/11/12 21:00
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL's @ ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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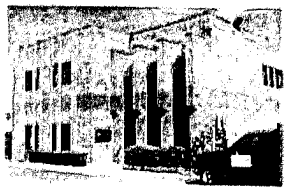

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 4/11/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☑ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 17.6°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No

(Walk-in clients only) if not already approved

Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	1	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	5
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0378
Project Location: Harvard Univ - Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0378-01 thru 12D0378-06

Matrices: Product/Solid Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 04/13/12

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

April 17, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0496

Enclosed are results of analyses for samples received by the laboratory on April 13, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 4/17/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0496

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

PROJECT LOCATION: Harv. Univ Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-406	12D0496-01	Caulk	Spandrel at 3.0in-4.0in	SW-846 8082A	
PH-VBC-407	12D0496-02	Caulk	Spandrel at 3.0in-4.0in	SW-846 8082A	
PH-VBB-408	12D0496-03	Brick	4th row of brick B	SW-846 8082A	
PH-VBC-409	12D0496-04	Caulk	4th spandrel at 1.0in-2.0in C	SW-846 8082A	
PH-VBB-410	12D0496-05	Brick	4th row of brick	SW-846 8082A	
PH-VBC-411	12D0496-06	Caulk	Spandrel at 1.0in-2.0in	SW-846 8082A	
PH-VBC-412	12D0496-07	Caulk	Spandrel at 1.0in-2.0in	SW-846 8082A	
PH-VBC-413	12D0496-08	Caulk	Spandrel at 1.0in-2.0in	SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B049752-BS1

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

12D0496-01[PH-VBC-406], 12D0496-02[PH-VBC-407], 12D0496-03[PH-VBB-408], 12D0496-04[PH-VBC-409], 12D0496-05[PH-VBB-410], 12D0496-06[PH-VBC-411], 12D0496-07[PH-VBC-412], 12D0496-08[PH-VBC-413], B049752-BLK1, B049752-BS1, B049752-BSD1, B049752-MS1, B049752-MSD1

Surrogate recoveries are outside of control limits.

Analyte & Samples(s) Qualified:

Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

B049752-BS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Harv. Univ Pound Hall | Sample Description: Spandrel at 3.0in-4.0in | Work Order: 12D0496

Date Received: 4/13/2012

Field Sample #: PH-VBC-406 | Sampled: 4/13/2012 14:25

Sample ID: 12D0496-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 16:21	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:21	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:21	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:21	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:21	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:21	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 16:21	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:21	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:21	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		4/16/12 16:21
Decachlorobiphenyl [2]	107	30-150		4/16/12 16:21
Tetrachloro-m-xylene [1]	99.7	30-150		4/16/12 16:21
Tetrachloro-m-xylene [2]	96.6	30-150		4/16/12 16:21

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Project Location: Harv. Univ Pound Hall | Sample Description: Spandrel at 3.0in-4.0in | Work Order: 12D0496

Date Received: 4/13/2012

Field Sample #: PH-VBC-407 | Sampled: 4/13/2012 14:40

Sample ID: 12D0496-02

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 16:34	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:34	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:34	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:34	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:34	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:34	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 16:34	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:34	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:34	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.9	30-150		4/16/12 16:34
Decachlorobiphenyl [2]	100	30-150		4/16/12 16:34
Tetrachloro-m-xylene [1]	89.7	30-150		4/16/12 16:34
Tetrachloro-m-xylene [2]	86.7	30-150		4/16/12 16:34

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Project Location: Harv. Univ Pound Hall | Sample Description: 4th row of brick B | Work Order: 12D0496

Date Received: 4/13/2012

Field Sample #: PH-VBB-408 | Sampled: 4/13/2012 14:50

Sample ID: 12D0496-03

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 16:47	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:47	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:47	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:47	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:47	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:47	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 16:47	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:47	MJC
Aroclor-1268 [2]	0.23	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 16:47	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.7	30-150		4/16/12 16:47
Decachlorobiphenyl [2]	105	30-150		4/16/12 16:47
Tetrachloro-m-xylene [1]	93.7	30-150		4/16/12 16:47
Tetrachloro-m-xylene [2]	90.6	30-150		4/16/12 16:47

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

Project Location: Harv. Univ Pound Hall | Sample Description: 4th spandrel at 1.0in-2.0in C | Work Order: 12D0496

Date Received: 4/13/2012

Field Sample #: PH-VBC-409 | Sampled: 4/13/2012 14:55

Sample ID: 12D0496-04

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:00	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:00	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:00	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:00	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:00	MJC
Aroclor-1254 [2]	0.35	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:00	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:00	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:00	MJC
Aroclor-1268 [2]	0.61	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:00	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		4/16/12 17:00
Decachlorobiphenyl [2]	105	30-150		4/16/12 17:00
Tetrachloro-m-xylene [1]	92.9	30-150		4/16/12 17:00
Tetrachloro-m-xylene [2]	92.8	30-150		4/16/12 17:00

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

Project Location: Harv. Univ Pound Hall | Sample Description: 4th row of brick | Work Order: 12D0496

Date Received: 4/13/2012

Field Sample #: PH-VBB-410 | Sampled: 4/13/2012 15:00

Sample ID: 12D0496-05

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:13	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:13	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:13	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:13	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:13	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:13	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:13	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:13	MJC
Aroclor-1268 [2]	0.31	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:13	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		4/16/12 17:13
Decachlorobiphenyl [2]	108	30-150		4/16/12 17:13
Tetrachloro-m-xylene [1]	95.3	30-150		4/16/12 17:13
Tetrachloro-m-xylene [2]	93.1	30-150		4/16/12 17:13

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

Project Location: Harv. Univ Pound Hall | Sample Description: Spandrel at 1.0in-2.0in | Work Order: 12D0496

Date Received: 4/13/2012

Field Sample #: PH-VBC-411 | Sampled: 4/13/2012 15:05

Sample ID: 12D0496-06

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:25	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:25	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:25	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:25	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:25	MJC
Aroclor-1254 [1]	0.18	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:25	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:25	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:25	MJC
Aroclor-1268 [2]	0.22	0.095	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:25	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.2	30-150		4/16/12 17:25
Decachlorobiphenyl [2]	100	30-150		4/16/12 17:25
Tetrachloro-m-xylene [1]	90.7	30-150		4/16/12 17:25
Tetrachloro-m-xylene [2]	89.9	30-150		4/16/12 17:25

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

Project Location: Harv. Univ Pound Hall
Sample Description: Spandrel at 1.0in-2.0in
Work Order: 12D0496

Date Received: 4/13/2012

Field Sample #: PH-VBC-412
Sampled: 4/13/2012 15:25

Sample ID: 12D0496-07

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:38	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:38	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:38	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:38	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:38	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:38	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:38	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:38	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:38	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		4/16/12 17:38
Decachlorobiphenyl [2]	108	30-150		4/16/12 17:38
Tetrachloro-m-xylene [1]	91.2	30-150		4/16/12 17:38
Tetrachloro-m-xylene [2]	88.9	30-150		4/16/12 17:38

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

Project Location: Harv. Univ Pound Hall | Sample Description: Spandrel at 1.0in-2.0in | Work Order: 12D0496

Date Received: 4/13/2012

Field Sample #: PH-VBC-413 | Sampled: 4/13/2012 15:30

Sample ID: 12D0496-08

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:52	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:52	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:52	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:52	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:52	MJC
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:52	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1	R-05	SW-846 8082A	4/14/12	4/16/12 17:52	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:52	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/14/12	4/16/12 17:52	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.1	30-150		4/16/12 17:52
Decachlorobiphenyl [2]	105	30-150		4/16/12 17:52
Tetrachloro-m-xylene [1]	92.5	30-150		4/16/12 17:52
Tetrachloro-m-xylene [2]	89.8	30-150		4/16/12 17:52

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0496-01 [PH-VBC-406]	B049752	2.10	10.0	04/14/12
12D0496-02 [PH-VBC-407]	B049752	2.00	10.0	04/14/12
12D0496-03 [PH-VBB-408]	B049752	2.00	10.0	04/14/12
12D0496-04 [PH-VBC-409]	B049752	2.00	10.0	04/14/12
12D0496-05 [PH-VBB-410]	B049752	2.00	10.0	04/14/12
12D0496-06 [PH-VBC-411]	B049752	2.10	10.0	04/14/12
12D0496-07 [PH-VBC-412]	B049752	2.00	10.0	04/14/12
12D0496-08 [PH-VBC-413]	B049752	2.20	10.0	04/14/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD		RPD Limit	Notes
Batch B049752 - SW-846 3540C												
Blank (B049752-BLK1)				Prepared: 04/14/12 Analyzed: 04/16/12								
Aroclor-1016	ND	0.10	mg/Kg									R-05
Aroclor-1016 [2C]	ND	0.10	mg/Kg									R-05
Aroclor-1221	ND	0.10	mg/Kg									
Aroclor-1221 [2C]	ND	0.10	mg/Kg									
Aroclor-1232	ND	0.10	mg/Kg									
Aroclor-1232 [2C]	ND	0.10	mg/Kg									
Aroclor-1242	ND	0.10	mg/Kg									
Aroclor-1242 [2C]	ND	0.10	mg/Kg									
Aroclor-1248	ND	0.10	mg/Kg									
Aroclor-1248 [2C]	ND	0.10	mg/Kg									
Aroclor-1254	ND	0.10	mg/Kg									
Aroclor-1254 [2C]	ND	0.10	mg/Kg									
Aroclor-1260	ND	0.10	mg/Kg									R-05
Aroclor-1260 [2C]	ND	0.10	mg/Kg									R-05
Aroclor-1262	ND	0.10	mg/Kg									
Aroclor-1262 [2C]	ND	0.10	mg/Kg									
Aroclor-1268	ND	0.10	mg/Kg									
Aroclor-1268 [2C]	ND	0.10	mg/Kg									
Surrogate: Decachlorobiphenyl	*0.946*		mg/Kg	1.00		94.6		30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.994*		mg/Kg	1.00		99.4		30-150				
Surrogate: Tetrachloro-m-xylene	*0.945*		mg/Kg	1.00		94.5		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.917*		mg/Kg	1.00		91.7		30-150				
LCS (B049752-BS1)				Prepared: 04/14/12 Analyzed: 04/16/12								
Aroclor-1016	0.028	0.10	mg/Kg	0.250		**11.2**	*	40-140				L-07A, R-05
Aroclor-1016 [2C]	0.027	0.10	mg/Kg	0.250		**10.7**	*	40-140				L-07A, R-05
Aroclor-1260	0.072	0.10	mg/Kg	0.250		**28.8**	*	40-140				L-07A, R-05
Aroclor-1260 [2C]	0.068	0.10	mg/Kg	0.250		**27.1**	*	40-140				L-07A, R-05
Surrogate: Decachlorobiphenyl	*0.382*		mg/Kg	1.00		38.2		30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.404*		mg/Kg	1.00		40.4		30-150				
Surrogate: Tetrachloro-m-xylene	*0.109*		mg/Kg	1.00		**10.9**	*	30-150				Z-01
Surrogate: Tetrachloro-m-xylene [2C]	*0.104*		mg/Kg	1.00		**10.4**	*	30-150				Z-01
LCS Dup (B049752-BSD1)				Prepared: 04/14/12 Analyzed: 04/16/12								
Aroclor-1016	0.27	0.10	mg/Kg	0.250		109		40-140	**162**	*	30	R-05
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		109		40-140	**164**	*	30	R-05
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101		40-140	**111**	*	30	R-05
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		109		40-140	**120**	*	30	R-05
Surrogate: Decachlorobiphenyl	*0.960*		mg/Kg	1.00		96.0		30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102		30-150				
Surrogate: Tetrachloro-m-xylene	*0.939*		mg/Kg	1.00		93.9		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.914*		mg/Kg	1.00		91.4		30-150				

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B049752 - SW-846 3540C										
Matrix Spike (B049752-MS1)		**Source: 12D0496-01**		Prepared: 04/14/12 Analyzed: 04/16/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250	0.0	109	40-140			R-05
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250	0.0	108	40-140			R-05
Aroclor-1260	0.27	0.10	mg/Kg	0.250	0.0	109	40-140			R-05
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250	0.0	118	40-140			R-05
Surrogate: Decachlorobiphenyl	*0.975*		mg/Kg	1.00		97.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.927*		mg/Kg	1.00		92.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.897*		mg/Kg	1.00		89.7	30-150			
Matrix Spike Dup (B049752-MSD1)		**Source: 12D0496-01**		Prepared: 04/14/12 Analyzed: 04/16/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250	0.0	102	40-140	6.61	50	R-05
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250	0.0	101	40-140	6.82	50	R-05
Aroclor-1260	0.25	0.10	mg/Kg	0.250	0.0	102	40-140	6.79	50	R-05
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250	0.0	110	40-140	6.41	50	R-05
Surrogate: Decachlorobiphenyl	*0.934*		mg/Kg	1.00		93.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.988*		mg/Kg	1.00		98.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.916*		mg/Kg	1.00		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.888*		mg/Kg	1.00		88.8	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
L-07A	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD outside of control limits. Reduced precision anticipated for any reported result for this compound.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
Z-01	Surrogate recoveries are outside of control limits.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of ___

12D0496

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard / Scott Keenan

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax #~~ jhamel@woodardcurran.com
Email: awallace@woodardcurran.com
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C		
01	PH-VBC-406	4/13/12	1425		C		Unk	✓		Spandrel @ 3.0"-4.0"
02	PH-VBC-407	↓	1440		C		↓	✓		Spandrel @ 3.0"-4.0"
03	PH-VBB-408	↓	1450		B		↓	✓	OK	4th row of Brick (B)
04	PH-VBC-409	4/13/12	1455		C		↓	✓		4th Spandrel @ 1.0"-2.0" (C)
05	PH-VBB-410	↓	1500		B		Unk	✓		4th row of Brick
06	PH-VBC-411	↓	1505		C		↓	✓		Spandrel @ 1.0-2.0"
07	PH-VBC-412	↓	1525		C		↓	✓		Spandrel @ 1.0"-2.0"
08	PH-VBC-413	4/13/12	1530		C		Unk	✓		Spandrel @ 1.0"-2.0"
						4/13/12				
	* All ACTIVE FOR 48-Hr TAT - Thanks!									

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082 via 3540C soxhlet ② RL ≤ 1mg/kg ③ No description required ④ Roof Samples by 3/28/12 Plan

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	4/13/12 2130
Received by: (signature) 8.1°C [signature]	Date/Time: 4/13 2130
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene See ahalaptp.org for details

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 4/13/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice [✓] Direct from Sampling [✓] Ambient [ ] In Cooler(s) [✓]

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 8.1°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	8
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0496
Project Location: Harv. Univ Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0496-01 thru 12D0496-08

Matrices: Caulk Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 04/17/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 17, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0497

Enclosed are results of analyses for samples received by the laboratory on April 13, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 4/17/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0497

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-414	12D0497-01	Product/Solid		SW-846 8082A	
PH-VBC-417	12D0497-02	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1016

B049737-BS1, B049737-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12D0497

Date Received: 4/13/2012

Field Sample #: PH-VBC-414 | Sampled: 4/13/2012 16:05

Sample ID: 12D0497-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/13/12	4/17/12 14:23	PJG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/13/12	4/17/12 14:23	PJG
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/13/12	4/17/12 14:23	PJG
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/13/12	4/17/12 14:23	PJG
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/13/12	4/17/12 14:23	PJG
Aroclor-1254 [1]	1.4	1.0	mg/Kg	10		SW-846 8082A	4/13/12	4/17/12 14:23	PJG
Aroclor-1260 [2]	2.7	1.0	mg/Kg	10		SW-846 8082A	4/13/12	4/17/12 14:23	PJG
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/13/12	4/17/12 14:23	PJG
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	4/13/12	4/17/12 14:23	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		4/17/12 14:23
Decachlorobiphenyl [2]	105	30-150		4/17/12 14:23
Tetrachloro-m-xylene [1]	98.3	30-150		4/17/12 14:23
Tetrachloro-m-xylene [2]	112	30-150		4/17/12 14:23

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12D0497

Date Received: 4/13/2012

Field Sample #: PH-VBC-417 | Sampled: 4/13/2012 17:00

Sample ID: 12D0497-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:14	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:14	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:14	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:14	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:14	MJC
Aroclor-1254 [2]	0.13	0.091	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:14	MJC
Aroclor-1260 [2]	0.28	0.091	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:14	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:14	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:14	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.3	30-150		4/16/12 23:14
Decachlorobiphenyl [2]	105	30-150		4/16/12 23:14
Tetrachloro-m-xylene [1]	106	30-150		4/16/12 23:14
Tetrachloro-m-xylene [2]	104	30-150		4/16/12 23:14

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0497-01 [PH-VBC-414]	B049737	2.00	10.0	04/13/12
12D0497-02 [PH-VBC-417]	B049737	2.20	10.0	04/13/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B049737 - SW-846 3540C										
Blank (B049737-BLK1)				Prepared: 04/13/12 Analyzed: 04/16/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.994*		mg/Kg	1.00		99.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.00*		mg/Kg	1.00		100	30-150			
LCS (B049737-BS1)				Prepared: 04/13/12 Analyzed: 04/16/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		113	40-140			V-06
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		106	40-140			
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		118	40-140			
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	1.00		106	30-150			
LCS Dup (B049737-BSD1)				Prepared: 04/13/12 Analyzed: 04/16/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		106	40-140	6.72	30	V-06
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140	7.27	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		98.6	40-140	7.00	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140	5.37	30	
Surrogate: Decachlorobiphenyl	*0.992*		mg/Kg	1.00		99.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.982*		mg/Kg	1.00		98.2	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12D0497

Company Name: Woodard + Curran
Address: 41 Hutchins Ave Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard / Scott Keenan

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax #: jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C										
01	PH-VBL-414	4/13/12	1605			C	Unk	✓										F-2 Painted @ 6-7"
02	PH-VBL-417	↓	1700			C	Unk	✓										Header @ E, thoroughly deconned
	These two samples are the highest priority job for all samples dropped off 4/13/12. Thanks!																	
	4/13/12																	
	* Basement Paint / Unpainted Samples																	KM

Comments: ① EPA 8082/3540C Soxhlet ② RL ≤ 1mg/kg ③ C = Concrete ④ No description required ④ ACTIVE / 48 Hr TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	4/13/12 2130
Received by: (signature) 8.1°C [signature]	Date/Time: 4/13 2130
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** S.D. **DATE:** 4/13/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☑ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 8.1°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0497
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0497-01 thru 12D0497-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 04/17/12

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

April 17, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0498

Enclosed are results of analyses for samples received by the laboratory on April 13, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 4/17/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0498

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

PROJECT LOCATION: Harv. Univ Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBB-418	12D0498-01	Brick	Ext Brick Elev E - 7th row	SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1016

B049737-BS1, B049737-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harv. Univ Pound Hall | Sample Description: Ext Brick Elev E - 7th row | Work Order: 12D0498

Date Received: 4/13/2012

Field Sample #: PH-VBB-418 | Sampled: 4/9/2012 16:00

Sample ID: 12D0498-01

Sample Matrix: Brick

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:27	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:27	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:27	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:27	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:27	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:27	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:27	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:27	MJC
Aroclor-1268 [2]	0.33	0.10	mg/Kg	1		SW-846 8082A	4/13/12	4/16/12 23:27	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		4/16/12 23:27
Decachlorobiphenyl [2]	110	30-150		4/16/12 23:27
Tetrachloro-m-xylene [1]	102	30-150		4/16/12 23:27
Tetrachloro-m-xylene [2]	108	30-150		4/16/12 23:27

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0498-01 [PH-VBB-418]	B049737	2.00	10.0	04/13/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B049737 - SW-846 3540C										
Blank (B049737-BLK1)				Prepared: 04/13/12 Analyzed: 04/16/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.994*		mg/Kg	1.00		99.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.00*		mg/Kg	1.00		100	30-150			
LCS (B049737-BS1)				Prepared: 04/13/12 Analyzed: 04/16/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		113	40-140			V-06
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		106	40-140			
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		118	40-140			
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	1.00		106	30-150			
LCS Dup (B049737-BSD1)				Prepared: 04/13/12 Analyzed: 04/16/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		106	40-140	6.72	30	V-06
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140	7.27	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		98.6	40-140	7.00	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140	5.37	30	
Surrogate: Decachlorobiphenyl	*0.992*		mg/Kg	1.00		99.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.982*		mg/Kg	1.00		98.2	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12D0498

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax #: jhamel@woodardcurran.com
Email: awallace@ " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C	ANALYSIS REQUESTED
01	PH-VBB-418	4/9/12	1600			B	Unk	✓	Ext Brick - Elev E - 7th row
	ACTIVE 48H TAT								

4/13/12

KAR

# of Containers	1
** Preservation	I
***Container Code	G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082 via 3540C Soxhlet ② RL ≤ 1mg/kg ③ B = Brick ④ No description required ⑤ Exterior Brick - Elev. E - 7th Brick

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) KAR	Date/Time: 4/13/12 2130
Received by: (signature) 8.12 [signature]	Date/Time: 4/13 2130
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: C.C.S. DATE: 4/13/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☑ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? ~~Yes~~ No N/A CCS

Temperature °C by Temp blank _____ Temperature °C by Temp gun 8.1°C

5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	1
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0498
Project Location: Harv. Univ Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0498-01

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 04/17/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 23, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0688

Enclosed are results of analyses for samples received by the laboratory on April 19, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 4/23/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0688

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-421	12D0688-01	Concrete		SW-846 8082A	
PH-VBC-424	12D0688-02	Concrete		SW-846 8082A	
PH-VBC-426	12D0688-03	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B050066-MS1, B050066-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12D0688

Date Received: 4/19/2012

Field Sample #: PH-VBC-421
Sampled: 4/19/2012 09:50

Sample ID: 12D0688-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:10	PJG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:10	PJG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:10	PJG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:10	PJG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:10	PJG
Aroclor-1254 [2]	1.8	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:10	PJG
Aroclor-1260 [2]	2.2	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:10	PJG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:10	PJG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:10	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.0	30-150		4/23/12 15:10
Decachlorobiphenyl [2]	95.5	30-150		4/23/12 15:10
Tetrachloro-m-xylene [1]	96.7	30-150		4/23/12 15:10
Tetrachloro-m-xylene [2]	97.2	30-150		4/23/12 15:10

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Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12D0688

Date Received: 4/19/2012

Field Sample #: PH-VBC-424
Sampled: 4/19/2012 10:45

Sample ID: 12D0688-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:22	PJG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:22	PJG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:22	PJG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:22	PJG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:22	PJG
Aroclor-1254 [1]	1.5	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:22	PJG
Aroclor-1260 [1]	1.7	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:22	PJG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:22	PJG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/19/12	4/23/12 15:22	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		4/23/12 15:22
Decachlorobiphenyl [2]	99.7	30-150		4/23/12 15:22
Tetrachloro-m-xylene [1]	102	30-150		4/23/12 15:22
Tetrachloro-m-xylene [2]	103	30-150		4/23/12 15:22

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Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12D0688

Date Received: 4/19/2012

Field Sample #: PH-VBC-426
Sampled: 4/19/2012 13:50

Sample ID: 12D0688-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	4/19/12	4/23/12 15:35	PJG
Aroclor-1221 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	4/19/12	4/23/12 15:35	PJG
Aroclor-1232 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	4/19/12	4/23/12 15:35	PJG
Aroclor-1242 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	4/19/12	4/23/12 15:35	PJG
Aroclor-1248 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	4/19/12	4/23/12 15:35	PJG
Aroclor-1254 [2]	0.45	0.20	mg/Kg	2		SW-846 8082A	4/19/12	4/23/12 15:35	PJG
Aroclor-1260 [1]	0.69	0.20	mg/Kg	2		SW-846 8082A	4/19/12	4/23/12 15:35	PJG
Aroclor-1262 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	4/19/12	4/23/12 15:35	PJG
Aroclor-1268 [1]	ND	0.20	mg/Kg	2		SW-846 8082A	4/19/12	4/23/12 15:35	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.6	30-150		4/23/12 15:35
Decachlorobiphenyl [2]	89.3	30-150		4/23/12 15:35
Tetrachloro-m-xylene [1]	95.5	30-150		4/23/12 15:35
Tetrachloro-m-xylene [2]	96.2	30-150		4/23/12 15:35

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0688-01 [PH-VBC-421]	B050066	2.10	10.0	04/19/12
12D0688-02 [PH-VBC-424]	B050066	2.10	10.0	04/19/12
12D0688-03 [PH-VBC-426]	B050066	2.00	10.0	04/19/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B050066 - SW-846 3540C										
Blank (B050066-BLK1)				Prepared: 04/19/12 Analyzed: 04/23/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.19*		mg/Kg	1.00		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	1.00		110	30-150			
LCS (B050066-BS1)				Prepared: 04/19/12 Analyzed: 04/23/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		114	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		120	40-140			
Aroclor-1260	0.31	0.10	mg/Kg	0.250		124	40-140			
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250		118	40-140			
Surrogate: Decachlorobiphenyl	*1.19*		mg/Kg	1.00		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.14*		mg/Kg	1.00		114	30-150			
LCS Dup (B050066-BSD1)				Prepared: 04/19/12 Analyzed: 04/23/12						
Aroclor-1016	0.32	0.10	mg/Kg	0.250		129	40-140	12.3	30	
Aroclor-1016 [2C]	0.31	0.10	mg/Kg	0.250		123	40-140	2.79	30	
Aroclor-1260	0.32	0.10	mg/Kg	0.250		130	40-140	4.57	30	
Aroclor-1260 [2C]	0.33	0.10	mg/Kg	0.250		133	40-140	11.7	30	
Surrogate: Decachlorobiphenyl	*1.25*		mg/Kg	1.00		125	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.15*		mg/Kg	1.00		115	30-150			
Surrogate: Tetrachloro-m-xylene	*1.20*		mg/Kg	1.00		120	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.20*		mg/Kg	1.00		120	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B050066 - SW-846 3540C											
Matrix Spike (B050066-MS1)		**Source: 12D0688-01**		Prepared: 04/19/12 Analyzed: 04/23/12							
Aroclor-1016	0.39	0.095	mg/Kg	0.238	0.0	**166**	*	40-140			MS-21
Aroclor-1016 [2C]	0.51	0.095	mg/Kg	0.238	0.0	**212**	*	40-140			MS-21
Aroclor-1260	3.3	0.095	mg/Kg	0.238	2.1	**493**	*	40-140			MS-21
Aroclor-1260 [2C]	2.3	0.095	mg/Kg	0.238	2.2	**18.5**	*	40-140			MS-21
Surrogate: Decachlorobiphenyl	*0.972*		mg/Kg	0.952		102		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.895*		mg/Kg	0.952		94.0		30-150			
Surrogate: Tetrachloro-m-xylene	*0.939*		mg/Kg	0.952		98.6		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.943*		mg/Kg	0.952		99.0		30-150			
Matrix Spike Dup (B050066-MSD1)		**Source: 12D0688-01**		Prepared: 04/19/12 Analyzed: 04/23/12							
Aroclor-1016	0.44	0.091	mg/Kg	0.227	0.0	**192**	*	40-140	10.2	50	MS-21
Aroclor-1016 [2C]	0.55	0.091	mg/Kg	0.227	0.0	**241**	*	40-140	8.09	50	MS-21
Aroclor-1260	3.3	0.091	mg/Kg	0.227	2.1	**512**	*	40-140	0.353	50	MS-21
Aroclor-1260 [2C]	2.3	0.091	mg/Kg	0.227	2.2	**25.4**	*	40-140	0.599	50	MS-21
Surrogate: Decachlorobiphenyl	*1.16*		mg/Kg	0.909		128		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	0.909		117		30-150			
Surrogate: Tetrachloro-m-xylene	*1.09*		mg/Kg	0.909		120		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		mg/Kg	0.909		120		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12D0688

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland
Attention: J Hamel A Wallace
Project Location: Ham Univ Pound Hall
Sampled By: Kim Rinaud

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax # jhamel@woodardcurran.com
Email: awallace@ " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082/3540C ACTIVE	
01	PH-VBL-421	4/19/12	0950			C	Unk	✓	Bsmt-E@48" Primary
02	PH-VBL-424	↓	~~1000~~ 1045			↓	↓	✓	Bsmt-M@48" Primary
03	PH-VBL-426	4/19/12	1350					✓	Bsmt-Q@48"

4/19/12 [signature]

4/19/12 [signature]

Comments: ① EPA 8082 PCB's by 3540C Soxhlet ② RL ≤ 1mg/kg ③ Concrete = C
④ Samples on this chain are active for 48 Hr TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	4/19/12 1440
Received by: (signature) [signature]	Date/Time: 4-12-12 1440
Relinquished by: (signature) [signature]	Date/Time: 4-19-12 1815
Received by: (signature) C. Clough-Segall	Date/Time: 4/19/12 18:15

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 4/19/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.2°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	3
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0688
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0688-01 thru 12D0688-03

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 04/23/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 23, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0689

Enclosed are results of analyses for samples received by the laboratory on April 19, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 4/23/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0689

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-418	12D0689-01	Concrete		SW-846 8082A	
PH-VBCD-419	12D0689-02	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12D0689

Date Received: 4/19/2012

Field Sample #: PH-VBC-418 | Sampled: 4/18/2012 16:25

Sample ID: 12D0689-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:47	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:47	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:47	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:47	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:47	PJG
Aroclor-1254 [2]	0.26	0.091	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:47	PJG
Aroclor-1260 [1]	0.51	0.091	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:47	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:47	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:47	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	109	30-150		4/23/12 15:47
Decachlorobiphenyl [2]	100	30-150		4/23/12 15:47
Tetrachloro-m-xylene [1]	105	30-150		4/23/12 15:47
Tetrachloro-m-xylene [2]	105	30-150		4/23/12 15:47

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Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12D0689

Date Received: 4/19/2012

Field Sample #: PH-VBCD-419
Sampled: 4/18/2012 16:25

Sample ID: 12D0689-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:59	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:59	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:59	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:59	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:59	PJG
Aroclor-1254 [2]	0.43	0.10	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:59	PJG
Aroclor-1260 [1]	1.0	0.10	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:59	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:59	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/19/12	4/23/12 15:59	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	126	30-150		4/23/12 15:59
Decachlorobiphenyl [2]	116	30-150		4/23/12 15:59
Tetrachloro-m-xylene [1]	126	30-150		4/23/12 15:59
Tetrachloro-m-xylene [2]	126	30-150		4/23/12 15:59

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0689-01 [PH-VBC-418]	B050066	2.20	10.0	04/19/12
12D0689-02 [PH-VBCD-419]	B050066	2.00	10.0	04/19/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B050066 - SW-846 3540C										
Blank (B050066-BLK1)				Prepared: 04/19/12 Analyzed: 04/23/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.19*		mg/Kg	1.00		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	1.00		110	30-150			
LCS (B050066-BS1)				Prepared: 04/19/12 Analyzed: 04/23/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		114	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		120	40-140			
Aroclor-1260	0.31	0.10	mg/Kg	0.250		124	40-140			
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250		118	40-140			
Surrogate: Decachlorobiphenyl	*1.19*		mg/Kg	1.00		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.14*		mg/Kg	1.00		114	30-150			
LCS Dup (B050066-BSD1)				Prepared: 04/19/12 Analyzed: 04/23/12						
Aroclor-1016	0.32	0.10	mg/Kg	0.250		129	40-140	12.3	30	
Aroclor-1016 [2C]	0.31	0.10	mg/Kg	0.250		123	40-140	2.79	30	
Aroclor-1260	0.32	0.10	mg/Kg	0.250		130	40-140	4.57	30	
Aroclor-1260 [2C]	0.33	0.10	mg/Kg	0.250		133	40-140	11.7	30	
Surrogate: Decachlorobiphenyl	*1.25*		mg/Kg	1.00		125	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.15*		mg/Kg	1.00		115	30-150			
Surrogate: Tetrachloro-m-xylene	*1.20*		mg/Kg	1.00		120	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.20*		mg/Kg	1.00		120	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12D0689

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

Telephone:
Project #: 223868
Client PO#:

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax #~~ jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C ACTIVE	ANALYSIS REQUESTED
01	PH-VBC-418	4/18/12	1625			C	Unk	✓	1st floor horizontal sill @ 6"
02	PH-VBCD-419	↓	↓			C	↓	✓	

4/19/12 KM
4/19/12 KM

# of Containers: 1
** Preservation: I
***Container Code: G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: (1) ACTIVE-48 Hr TAT (2) 8082 EPA via 3540C Soxhlet (3) C=Concrete (4) = RL ≤ 1mg/kg (5) No description required

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] KM	4/18/4/19/12 1435
Received by: (signature) [signature]	Date/Time: 4-19-12 1435
Relinquished by: (signature) [signature]	Date/Time: 4-19-12 1815
Received by: (signature) [signature] 4.2°C	Date/Time: 4/19/12 18:15

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 4/19/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.2°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz amber/clear jar	
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	2
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic			Plastic Bag / Ziploc	
40 mL Vial - type listed below			PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0689
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0689-01 thru 12D0689-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 04/23/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

April 25, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0692

Enclosed are results of analyses for samples received by the laboratory on April 19, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 4/25/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0692

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-422	12D0692-01	Concrete		SW-846 8082A	
PH-VBC-425	12D0692-02	Concrete		SW-846 8082A	
PH-VBC-427	12D0692-03	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12D0692

Date Received: 4/19/2012

Field Sample #: PH-VBC-422 | Sampled: 4/19/2012 10:00

Sample ID: 12D0692-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:33	MJC
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:33	MJC
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:33	MJC
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:33	MJC
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:33	MJC
Aroclor-1254 [1]	1.1	0.48	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:33	MJC
Aroclor-1260 [1]	1.3	0.48	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:33	MJC
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:33	MJC
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:33	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.8	30-150		4/25/12 9:33
Decachlorobiphenyl [2]	91.2	30-150		4/25/12 9:33
Tetrachloro-m-xylene [1]	110	30-150		4/25/12 9:33
Tetrachloro-m-xylene [2]	113	30-150		4/25/12 9:33

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12D0692

Date Received: 4/19/2012

Field Sample #: PH-VBC-425 | Sampled: 4/19/2012 13:05

Sample ID: 12D0692-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:46	MJC
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:46	MJC
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:46	MJC
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:46	MJC
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:46	MJC
Aroclor-1254 [1]	1.7	0.45	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:46	MJC
Aroclor-1260 [2]	2.0	0.45	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:46	MJC
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:46	MJC
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	4/24/12	4/25/12 9:46	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.0	30-150		4/25/12 9:46
Decachlorobiphenyl [2]	88.0	30-150		4/25/12 9:46
Tetrachloro-m-xylene [1]	100	30-150		4/25/12 9:46
Tetrachloro-m-xylene [2]	103	30-150		4/25/12 9:46

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12D0692

Date Received: 4/19/2012

Field Sample #: PH-VBC-427 | Sampled: 4/19/2012 14:00

Sample ID: 12D0692-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/24/12	4/25/12 9:59	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/24/12	4/25/12 9:59	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/24/12	4/25/12 9:59	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/24/12	4/25/12 9:59	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/24/12	4/25/12 9:59	MJC
Aroclor-1254 [1]	0.16	0.095	mg/Kg	1		SW-846 8082A	4/24/12	4/25/12 9:59	MJC
Aroclor-1260 [1]	0.28	0.095	mg/Kg	1		SW-846 8082A	4/24/12	4/25/12 9:59	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/24/12	4/25/12 9:59	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/24/12	4/25/12 9:59	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.1	30-150		4/25/12 9:59
Decachlorobiphenyl [2]	90.1	30-150		4/25/12 9:59
Tetrachloro-m-xylene [1]	90.3	30-150		4/25/12 9:59
Tetrachloro-m-xylene [2]	95.8	30-150		4/25/12 9:59

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0692-01 [PH-VBC-422]	B050270	2.10	10.0	04/24/12
12D0692-02 [PH-VBC-425]	B050270	2.20	10.0	04/24/12
12D0692-03 [PH-VBC-427]	B050270	2.10	10.0	04/24/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B050270 - SW-846 3540C										
Blank (B050270-BLK1)				Prepared: 04/24/12 Analyzed: 04/25/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.847*		mg/Kg	1.00		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.856*		mg/Kg	1.00		85.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.901*		mg/Kg	1.00		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.955*		mg/Kg	1.00		95.5	30-150			
LCS (B050270-BS1)				Prepared: 04/24/12 Analyzed: 04/25/12						
Aroclor-1016	0.14	0.10	mg/Kg	0.125		110	40-140			
Aroclor-1016 [2C]	0.14	0.10	mg/Kg	0.125		113	40-140			
Aroclor-1260	0.13	0.10	mg/Kg	0.125		104	40-140			
Aroclor-1260 [2C]	0.13	0.10	mg/Kg	0.125		103	40-140			
Surrogate: Decachlorobiphenyl	*0.860*		mg/Kg	1.00		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.893*		mg/Kg	1.00		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.869*		mg/Kg	1.00		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.920*		mg/Kg	1.00		92.0	30-150			
LCS Dup (B050270-BSD1)				Prepared: 04/24/12 Analyzed: 04/25/12						
Aroclor-1016	0.16	0.10	mg/Kg	0.125		126	40-140	13.7	30	
Aroclor-1016 [2C]	0.15	0.10	mg/Kg	0.125		122	40-140	8.00	30	
Aroclor-1260	0.14	0.10	mg/Kg	0.125		111	40-140	6.51	30	
Aroclor-1260 [2C]	0.13	0.10	mg/Kg	0.125		106	40-140	2.73	30	
Surrogate: Decachlorobiphenyl	*0.851*		mg/Kg	1.00		85.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.890*		mg/Kg	1.00		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.899*		mg/Kg	1.00		89.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.953*		mg/Kg	1.00		95.3	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
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39 Spruce Street
East longmeadow, MA 01028

12D0692

Company Name: Woodard & Curran
Address: 41 ~~Port~~ Hutchins ~~Ave~~ Drive Portland, ME
Attention: J Hummel, A Wallace
Project Location: Harv Univ Pound Hall
Sampled By: Kim Renard
Project Proposal Provided? (for billing purposes) ☑ yes 20111211 proposal date

Telephone:
Project # 22386B
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax~~ # jhummel@woodardcurran.com
Email: awallace@ " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER ________
○ "Enhanced Data Package"

# of Containers	1
** Preservation	I
***Container Code	G

ANALYSIS REQUESTED: 8082/3540C HOLD

Dissolved Metals
○ Field Filtered
○ Lab to Filter

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082/3540C HOLD	
01	PH-VBC-422 (HOLD)	4/19/12	1000			C	Unk	✓	Bsmt - E@ 96" Contingency
02	PH-VBC-425 (HOLD)	↓	1305			C	Unk	✓	Bsmt - M@ 96" Contingency
03	PH-VBC-427 (HOLD)	↓	~~1420~~ 1400			↓	↓	↓	Bsmt - Q@ ~~24~~ 96"
04	PH-VBC-428 (HOLD)	↓	1420			↓	↓	↓	Bsmt - Q@ 24"

KMR 4/19/12

Comments: ① Lab not to analyze samples w/o authorization from W&C
② Hold all samples ③ Activate for PCB soxhlet on a 48 hour TAT per Amy W. MEK 4/24/12

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished / Received	Date/Time
Relinquished by: (signature) [signature]	4/19/12 1435
Received by: (signature) [signature]	4-19-12 1440
Relinquished by: (signature) [signature]	4-19-12 1816
Received by: (signature) [signature] 9.2°	4/19/12 18:15

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ________

NELAC & AIHA Certified
WBE/DBE Certified

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other ________

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other ________

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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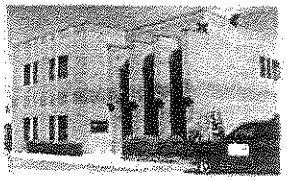

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 4/19/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.2°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers			# of containers
1 Liter Amber			8 oz amber/clear jar	
500 mL Amber			4 oz amber/clear jar	
250 mL Amber (8oz amber)			2 oz amber/clear jar	4
1 Liter Plastic			Air Cassette	
500 mL Plastic			Hg/Hopcalite Tube	
250 mL plastic			Plastic Bag / Ziploc	
40 mL Vial - type listed below			PM 2.5 / PM 10	
Colisure / bacteria bottle			PUF Cartridge	
Dissolved Oxygen bottle			SOC Kit	
Encore			TO-17 Tubes	
Flashpoint bottle			Non-ConTest Container	
Perchlorate Kit			Other glass jar	
Other			Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0692
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0692-01 thru 12D0692-03

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 04/25/12

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

May 1, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D0994

Enclosed are results of analyses for samples received by the laboratory on April 27, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/1/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D0994

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-429	12D0994-01	Product/Solid		SW-846 8082A	
PH-VBC-430	12D0994-02	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12D0994

Date Received: 4/27/2012

Field Sample #: PH-VBC-429 | Sampled: 4/27/2012 15:00

Sample ID: 12D0994-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 13:49	JMB
Aroclor-1221 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 13:49	JMB
Aroclor-1232 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 13:49	JMB
Aroclor-1242 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 13:49	JMB
Aroclor-1248 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 13:49	JMB
Aroclor-1254 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 13:49	JMB
Aroclor-1260 [2]	0.76	0.43	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 13:49	JMB
Aroclor-1262 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 13:49	JMB
Aroclor-1268 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 13:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.8	30-150		4/30/12 13:49
Decachlorobiphenyl [2]	78.7	30-150		4/30/12 13:49
Tetrachloro-m-xylene [1]	113	30-150		4/30/12 13:49
Tetrachloro-m-xylene [2]	107	30-150		4/30/12 13:49

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12D0994

Date Received: 4/27/2012

Field Sample #: PH-VBC-430 | Sampled: 4/27/2012 15:15

Sample ID: 12D0994-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 14:02	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 14:02	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 14:02	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 14:02	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 14:02	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 14:02	JMB
Aroclor-1260 [1]	4.1	0.50	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 14:02	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 14:02	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	4/27/12	4/30/12 14:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		4/30/12 14:02
Decachlorobiphenyl [2]	85.9	30-150		4/30/12 14:02
Tetrachloro-m-xylene [1]	113	30-150		4/30/12 14:02
Tetrachloro-m-xylene [2]	108	30-150		4/30/12 14:02

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D0994-01 [PH-VBC-429]	B050545	2.30	10.0	04/27/12
12D0994-02 [PH-VBC-430]	B050545	2.00	10.0	04/27/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B050545 - SW-846 3540C										
Blank (B050545-BLK1)				Prepared: 04/27/12 Analyzed: 04/30/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.998*		mg/Kg	1.00		99.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.880*		mg/Kg	1.00		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.987*		mg/Kg	1.00		98.7	30-150			
LCS (B050545-BS1)				Prepared: 04/27/12 Analyzed: 04/30/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101	40-140			
Aroclor-1260 [2C]	0.22	0.10	mg/Kg	0.250		88.2	40-140			
Surrogate: Decachlorobiphenyl	*1.09*		mg/Kg	1.00		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.954*		mg/Kg	1.00		95.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.22*		mg/Kg	1.00		122	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.14*		mg/Kg	1.00		114	30-150			
LCS Dup (B050545-BSD1)				Prepared: 04/27/12 Analyzed: 04/30/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		104	40-140	0.230	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140	3.52	30	
Aroclor-1260	0.20	0.10	mg/Kg	0.250		80.1	40-140	23.5	30	
Aroclor-1260 [2C]	0.18	0.10	mg/Kg	0.250		73.0	40-140	18.9	30	
Surrogate: Decachlorobiphenyl	*0.656*		mg/Kg	1.00		65.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.577*		mg/Kg	1.00		57.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	1.00		110	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

12D0994

Page 1 of

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harv Univ Pound Hall
Sampled By: Kim Rinard
Project Proposal Provided? (for billing purposes) ✓ yes 2011121 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply) ○ FAX ✓ EMAIL ○ WEBSITE
Fax #: jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS ○ OTHER ○ "Enhanced Data Package"

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C	ANALYSIS REQUESTED
01	PH-VBL-429	4/27/12	1500			C	Unk	✓	Painted - After Peel Away ST
02	PH-VBL-430	↓	1515			C	Unk	✓	Unpainted - After Peel Away ST
	~~PH-VBL-431~~			No sample collected					
	* Note - Potential matrix interference possible. Caustic material (pH >12) used to clean surface prior to sampling								

4/27/12 KMR (both unused areas struck through)

# of Containers	1
** Preservation	I
***Container Code	G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: (1) EPA 8082 PCBs via 3540C (2) C = Concrete (3) Samples submitted for 48 Hr TAT. All active (4) Basement samples @ 12" from joint

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

	Date/Time:
Relinquished by: (signature) KMR 19.4°C	4/27/12 1915
Received by: (signature) [signature]	4/27 19:15
Relinquished by: (signature)	
Received by: (signature)	

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

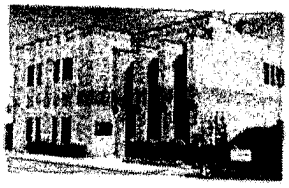
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** SD **DATE:** 4/27/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☒ Ambient ☒ In Cooler(s) ☐

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 19.4

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D0994
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D0994-01 thru 12D0994-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/01/12

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

May 2, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D1043

Enclosed are results of analyses for samples received by the laboratory on April 30, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/2/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D1043

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-431	12D1043-01	Concrete		SW-846 8082A	
PH-VBC-432	12D1043-02	Concrete		SW-846 8082A	
PH-VBC-433	12D1043-03	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12D1043

Date Received: 4/30/2012

Field Sample #: PH-VBC-431 | Sampled: 4/30/2012 14:30

Sample ID: 12D1043-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:28	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:28	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:28	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:28	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:28	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:28	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:28	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:28	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:28	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	67.8	30-150		5/1/12 17:28
Decachlorobiphenyl [2]	65.5	30-150		5/1/12 17:28
Tetrachloro-m-xylene [1]	120	30-150		5/1/12 17:28
Tetrachloro-m-xylene [2]	121	30-150		5/1/12 17:28

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12D1043

Date Received: 4/30/2012

Field Sample #: PH-VBC-432 | Sampled: 4/30/2012 15:05

Sample ID: 12D1043-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:41	PJG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:41	PJG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:41	PJG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:41	PJG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:41	PJG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:41	PJG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:41	PJG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:41	PJG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:41	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		5/1/12 17:41
Decachlorobiphenyl [2]	107	30-150		5/1/12 17:41
Tetrachloro-m-xylene [1]	118	30-150		5/1/12 17:41
Tetrachloro-m-xylene [2]	118	30-150		5/1/12 17:41

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Project Location: Harvard Univ. Pound Hall | Sample Description: | Work Order: 12D1043

Date Received: 4/30/2012

Field Sample #: PH-VBC-433 | Sampled: 4/30/2012 15:20

Sample ID: 12D1043-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:54	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:54	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:54	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:54	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:54	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:54	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:54	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:54	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	4/30/12	5/1/12 17:54	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.5	30-150		5/1/12 17:54
Decachlorobiphenyl [2]	102	30-150		5/1/12 17:54
Tetrachloro-m-xylene [1]	111	30-150		5/1/12 17:54
Tetrachloro-m-xylene [2]	111	30-150		5/1/12 17:54

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D1043-01 [PH-VBC-431]	B050625	2.10	10.0	04/30/12
12D1043-02 [PH-VBC-432]	B050625	2.10	10.0	04/30/12
12D1043-03 [PH-VBC-433]	B050625	2.00	10.0	04/30/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B050625 - SW-846 3540C										
Blank (B050625-BLK1)				Prepared: 04/30/12 Analyzed: 05/01/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.607*		mg/Kg	1.00		60.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.529*		mg/Kg	1.00		52.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS (B050625-BS1)				Prepared: 04/30/12 Analyzed: 05/01/12						
Aroclor-1016	0.21	0.10	mg/Kg	0.250		82.3	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		109	40-140			
Aroclor-1260	0.18	0.10	mg/Kg	0.250		73.6	40-140			
Aroclor-1260 [2C]	0.18	0.10	mg/Kg	0.250		72.4	40-140			
Surrogate: Decachlorobiphenyl	*0.674*		mg/Kg	1.00		67.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.582*		mg/Kg	1.00		58.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		mg/Kg	1.00		112	30-150			
LCS Dup (B050625-BSD1)				Prepared: 04/30/12 Analyzed: 05/01/12						
Aroclor-1016	0.22	0.10	mg/Kg	0.250		87.2	40-140	5.78	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140	5.60	30	
Aroclor-1260	0.21	0.10	mg/Kg	0.250		83.4	40-140	12.6	30	
Aroclor-1260 [2C]	0.20	0.10	mg/Kg	0.250		80.2	40-140	10.2	30	
Surrogate: Decachlorobiphenyl	*0.682*		mg/Kg	1.00		68.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.587*		mg/Kg	1.00		58.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.20*		mg/Kg	1.00		120	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.14*		mg/Kg	1.00		114	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B050625 - SW-846 3540C										
Matrix Spike (B050625-MS1)		**Source: 12D1043-03**		Prepared: 04/30/12 Analyzed: 05/01/12						
Aroclor-1016	0.29	0.10	mg/Kg	0.250	0.0	114	40-140			
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250	0.0	133	40-140			
Aroclor-1260	0.31	0.10	mg/Kg	0.250	0.0	123	40-140			
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250	0.0	114	40-140			
Surrogate: Decachlorobiphenyl	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.23*		mg/Kg	1.00		123	30-150			
Surrogate: Tetrachloro-m-xylene	*1.21*		mg/Kg	1.00		121	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.23*		mg/Kg	1.00		123	30-150			
Matrix Spike Dup (B050625-MSD1)		**Source: 12D1043-03**		Prepared: 04/30/12 Analyzed: 05/02/12						
Aroclor-1016	0.32	0.10	mg/Kg	0.250	0.0	128	40-140	11.3	50	
Aroclor-1016 [2C]	0.32	0.10	mg/Kg	0.250	0.0	130	40-140	2.23	50	
Aroclor-1260	0.28	0.10	mg/Kg	0.250	0.0	111	40-140	10.8	50	
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250	0.0	109	40-140	4.82	50	
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.25*		mg/Kg	1.00		125	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.26*		mg/Kg	1.00		126	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of ___

12D1043

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A. Wallace
Project Location: Harvard Univ. Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax~~ # jhamel@woodardcurran.com
Email: awallace@ " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C PLB's	# of Containers	** Preservation	***Container Code
01	PH-VBL-431	4/30/12	1430			C	Unk	✓			
02	PH-VBL-432	↓	1505			C	Unk	✓			
03	PH-VBL-433	↓	1520			C	Unk	✓			

4/30/12

Comments: ① Third floor Post Removal Interior Verification Samples ② EPA 8082 PLB's via 3540C ③ RL ≤ 1mg/kg ④ C = Concrete ⑤ Results by 1200 NOON WED MAY 2 - thanks

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
K. Rinard	4/30/12 1855
Received by: (signature)	Date/Time:
Paule	4/30/12 1855
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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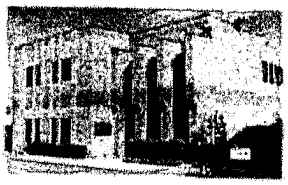

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** SD **DATE:** 4/30/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☑ Ambient ☑ In Cooler(s) ☐

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 22.4

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	3
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D1043
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D1043-01 thru 12D1043-03

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes ☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes ☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes ☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/02/12

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

May 4, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harvard Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12D1044

Enclosed are results of analyses for samples received by the laboratory on April 30, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/4/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12D1044

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

PROJECT LOCATION: Harvard Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CK-436	12D1044-01	Caulk		SW-846 8082A	

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

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harvard Univ. Pound Hall
Sample Description:
Work Order: 12D1044

Date Received: 4/30/2012

Field Sample #: PH-CK-436
Sampled: 4/30/2012 16:20

Sample ID: 12D1044-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	5/1/12	5/4/12 10:36	PJG
Aroclor-1221 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	5/1/12	5/4/12 10:36	PJG
Aroclor-1232 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	5/1/12	5/4/12 10:36	PJG
Aroclor-1242 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	5/1/12	5/4/12 10:36	PJG
Aroclor-1248 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	5/1/12	5/4/12 10:36	PJG
Aroclor-1254 [2]	1.8	0.93	mg/Kg	5		SW-846 8082A	5/1/12	5/4/12 10:36	PJG
Aroclor-1260 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	5/1/12	5/4/12 10:36	PJG
Aroclor-1262 [1]	ND	0.93	mg/Kg	5		SW-846 8082A	5/1/12	5/4/12 10:36	PJG
Aroclor-1268 [1]	7.1	0.93	mg/Kg	5		SW-846 8082A	5/1/12	5/4/12 10:36	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	114	30-150		5/4/12 10:36
Decachlorobiphenyl [2]	122	30-150		5/4/12 10:36
Tetrachloro-m-xylene [1]	102	30-150		5/4/12 10:36
Tetrachloro-m-xylene [2]	104	30-150		5/4/12 10:36

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12D1044-01 [PH-CK-436]	B050700	0.540	10.0	05/01/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B050700 - SW-846 3540C										
Blank (B050700-BLK1)				Prepared: 05/01/12 Analyzed: 05/04/12						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*2.51*		mg/Kg	4.00		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.75*		mg/Kg	4.00		68.9	30-150			
Surrogate: Tetrachloro-m-xylene	*4.58*		mg/Kg	4.00		115	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.59*		mg/Kg	4.00		115	30-150			
LCS (B050700-BS1)				Prepared: 05/01/12 Analyzed: 05/04/12						
Aroclor-1016	4.2	0.20	mg/Kg	4.00		105	40-140			
Aroclor-1016 [2C]	4.3	0.20	mg/Kg	4.00		107	40-140			
Aroclor-1260	4.2	0.20	mg/Kg	4.00		105	40-140			
Aroclor-1260 [2C]	4.0	0.20	mg/Kg	4.00		98.9	40-140			
Surrogate: Decachlorobiphenyl	*4.55*		mg/Kg	4.00		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*5.16*		mg/Kg	4.00		129	30-150			
Surrogate: Tetrachloro-m-xylene	*4.67*		mg/Kg	4.00		117	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.76*		mg/Kg	4.00		119	30-150			
LCS Dup (B050700-BSD1)				Prepared: 05/01/12 Analyzed: 05/04/12						
Aroclor-1016	4.3	0.20	mg/Kg	4.00		107	40-140	2.43	30	
Aroclor-1016 [2C]	4.4	0.20	mg/Kg	4.00		110	40-140	3.39	30	
Aroclor-1260	4.3	0.20	mg/Kg	4.00		107	40-140	2.32	30	
Aroclor-1260 [2C]	4.1	0.20	mg/Kg	4.00		102	40-140	3.58	30	
Surrogate: Decachlorobiphenyl	*4.42*		mg/Kg	4.00		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*5.08*		mg/Kg	4.00		127	30-150			
Surrogate: Tetrachloro-m-xylene	*4.96*		mg/Kg	4.00		124	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*5.09*		mg/Kg	4.00		127	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

12D1044

Page 1 of 1

Company Name: Woodard & Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hand, A Wallace
Project Location: Harv Univ. Pound Hall
Sampled By: Kim Rinard

Telephone:
Project #: 223806
Client PO#:

DATA DELIVERY (check all that apply): ○ FAX ✓ EMAIL ○ WEBSITE
Fax#: jhammel@woodardcurran.com
Email: awallace@ " " "
Format: ✓ PDF ✓ EXCEL ○ GIS ○ OTHER ○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes) ✓ yes 20111211 proposal date

# of Containers	1
** Preservation	I
***Container Code	G

ANALYSIS REQUESTED: 8082/3540 (HOLD)

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	8082/3540 (HOLD)
01	PH-WK-43b	4/30/12	1620			K	High	(HOLD)

Activate sample per Amy W, results due 5/4/12 — MLE 5/1/12

* Sample is caulking - potential HOT source material.

Comments: K = Caulking Samples on HOLD pending release by Amy Wallace. Thanks.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
K. Rinard	4/30/12 1855
Received by: (signature) Paul	4/30/12 1855
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day HOLD
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr HOLD
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

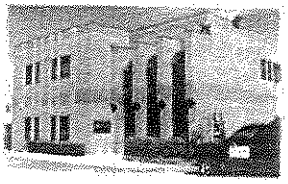
*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other
K = caulking

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY



Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: SD DATE: 4/30/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☑ Ambient ☑ In Cooler(s) ☐

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 22.4

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	1
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12D1044
Project Location: Harvard Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12D1044-01

Matrices: Caulk

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/04/12

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

May 3, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0051

Enclosed are results of analyses for samples received by the laboratory on May 1, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/3/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0051

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-434	12E0051-01	Product/Solid		SW-846 8082A	
PH-VBC-435	12E0051-02	Product/Solid		SW-846 8082A	

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

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12E0051

Date Received: 5/1/2012

Field Sample #: PH-VBC-434
Sampled: 5/1/2012 14:45

Sample ID: 12E0051-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/1/12	5/2/12 19:30	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/1/12	5/2/12 19:30	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/1/12	5/2/12 19:30	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/1/12	5/2/12 19:30	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/1/12	5/2/12 19:30	JMB
Aroclor-1254 [1]	0.11	0.095	mg/Kg	1		SW-846 8082A	5/1/12	5/2/12 19:30	JMB
Aroclor-1260 [1]	0.11	0.095	mg/Kg	1		SW-846 8082A	5/1/12	5/2/12 19:30	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/1/12	5/2/12 19:30	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/1/12	5/2/12 19:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.5	30-150		5/2/12 19:30
Decachlorobiphenyl [2]	114	30-150		5/2/12 19:30
Tetrachloro-m-xylene [1]	118	30-150		5/2/12 19:30
Tetrachloro-m-xylene [2]	114	30-150		5/2/12 19:30

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0051

Date Received: 5/1/2012

Field Sample #: PH-VBC-435 | Sampled: 5/1/2012 15:15

Sample ID: 12E0051-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	5/1/12	5/3/12 10:13	JMB
Aroclor-1221 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	5/1/12	5/3/12 10:13	JMB
Aroclor-1232 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	5/1/12	5/3/12 10:13	JMB
Aroclor-1242 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	5/1/12	5/3/12 10:13	JMB
Aroclor-1248 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	5/1/12	5/3/12 10:13	JMB
Aroclor-1254 [2]	1.9	0.87	mg/Kg	10		SW-846 8082A	5/1/12	5/3/12 10:13	JMB
Aroclor-1260 [1]	3.2	0.87	mg/Kg	10		SW-846 8082A	5/1/12	5/3/12 10:13	JMB
Aroclor-1262 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	5/1/12	5/3/12 10:13	JMB
Aroclor-1268 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	5/1/12	5/3/12 10:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	112	30-150		5/3/12 10:13
Decachlorobiphenyl [2]	101	30-150		5/3/12 10:13
Tetrachloro-m-xylene [1]	128	30-150		5/3/12 10:13
Tetrachloro-m-xylene [2]	131	30-150		5/3/12 10:13

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0051-01 [PH-VBC-434]	B050702	2.10	10.0	05/01/12
12E0051-02 [PH-VBC-435]	B050702	2.30	10.0	05/01/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B050702 - SW-846 3540C										
Blank (B050702-BLK1)				Prepared: 05/01/12 Analyzed: 05/02/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.949*		mg/Kg	1.00		94.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.983*		mg/Kg	1.00		98.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.15*		mg/Kg	1.00		115	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.16*		mg/Kg	1.00		116	30-150			
LCS (B050702-BS1)				Prepared: 05/01/12 Analyzed: 05/02/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		113	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.4	40-140			
Aroclor-1260 [2C]	0.20	0.10	mg/Kg	0.250		80.9	40-140			
Surrogate: Decachlorobiphenyl	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.15*		mg/Kg	1.00		115	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		mg/Kg	1.00		112	30-150			
LCS Dup (B050702-BSD1)				Prepared: 05/01/12 Analyzed: 05/02/12						
Aroclor-1016	0.30	0.10	mg/Kg	0.250		119	40-140	4.75	30	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140	3.93	30	
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101	40-140	4.27	30	
Aroclor-1260 [2C]	0.21	0.10	mg/Kg	0.250		83.7	40-140	3.47	30	
Surrogate: Decachlorobiphenyl	*0.968*		mg/Kg	1.00		96.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.18*		mg/Kg	1.00		118	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.15*		mg/Kg	1.00		115	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

12E0051

39 Spruce Street
East longmeadow, MA 01028

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
~~Fax~~ #: jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C PLBs	
01	PH-VBL-434	5/1/12	1445			C	Unk	✓	Post-Removal 3rd Flr IIFA
02	PH-VBL-435	↓	1515			C	Unk	✓	Basement (E) 12" Surf Decon w/TSR
	5/1/12 KAR			5/1/12 KAR					5/1/12 KAR

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082 via 3540C Soxhlet Ext ② C = Concrete ③ Both samples active for 48Hr TAT ④ RL ≤ 1mg/kg

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
KAR K. Rinard	5/1/12 1930
Received by: (signature) C. [signature] 20.6°C	Date/Time: 5/1/12 19:30
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: C.C-S. DATE: 5/1/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
On Ice ☒ C.C-S Direct from Sampling ☑ Ambient ☑ In Cooler(s) ☒ C.C-S.

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A
C.C-S

Temperature °C by Temp blank _____ Temperature °C by Temp gun 20.6 °C

5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12E0038-05 TB-11 (0-0.2in)

Analyte		Results	%RPD
Aroclor-1254 [2C]	0.11	0.1106667	0.604
Surrogates			
Decachlorobiphenyl	0.963	1.061914	9.77
Tetrachloro-m-xylene	0.900	0.894381	0.626

12E0051-01 PH-VBC-434

Analyte		Results	%RPD
Aroclor-1254	0.11	9.624762E-02	13.3
Aroclor-1260	0.11	9.750477E-02	12
Surrogates			
Decachlorobiphenyl	0.948	1.089091	13.9
Tetrachloro-m-xylene	1.12	1.088938	2.81

12E0051-02 PH-VBC-435

Analyte		Results	%RPD
Aroclor-1254 [2C]	1.9	1.740087	8.79
Aroclor-1260	3.2	3.163435	1.15
Surrogates			
Decachlorobiphenyl	0.971	0.8814783	9.67
Tetrachloro-m-xylene	1.11	1.14213	2.85

B050702-BLK1 Blank

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.949	0.983095	3.53
Tetrachloro-m-xylene	1.15	1.16026	0.888

B050702-BS1 LCS

Analyte		Results	%RPD
Aroclor-1260	0.24	0.202205	17.1
Aroclor-1016	0.28	0.27051	3.45
Surrogates			
Decachlorobiphenyl	0.960	0.9601	0.0104
Tetrachloro-m-xylene	1.15	1.120165	2.63

B050702-BSD1 LCS Dup

Analyte		Results	%RPD
Aroclor-1016	0.30	0.281365	6.41
Aroclor-1260	0.25	0.20935	17.7
Surrogates			
Decachlorobiphenyl	0.968	1.0242	5.64
Tetrachloro-m-xylene	1.18	1.15331	2.29

B050702-MS1 Matrix Spike

Analyte		Results	%RPD
Aroclor-1016	0.26	0.2575572	0.944
Aroclor-1260	0.27	0.2550619	5.69
Surrogates			
Decachlorobiphenyl	0.976	1.164	17.6
Tetrachloro-m-xylene	0.894	0.8925715	0.16

B050702-MSD1 Matrix Spike Dup

Analyte		Results	%RPD
Aroclor-1016	0.26	0.2799286	7.38
Aroclor-1260	0.25	0.2259	10.1
Surrogates			
Tetrachloro-m-xylene	0.865	0.8624429	0.296
Decachlorobiphenyl	0.925	1.120881	19.1

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0051
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0051-01 thru 12E0051-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 05/03/12

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May 18, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0246

Enclosed are results of analyses for samples received by the laboratory on May 4, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/18/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0246

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CBC-450	12E0246-01	Concrete		SW-846 8082A	
PH-CBC-451	12E0246-02	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1260, Aroclor-1260 [2C]

B051692-MS1, B051692-MSD1

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016

B051692-MS1, B051692-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12E0246

Date Received: 5/4/2012

Field Sample #: PH-CBC-450
Sampled: 5/4/2012 07:50

Sample ID: 12E0246-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:09	MJC
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:09	MJC
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:09	MJC
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:09	MJC
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:09	MJC
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:09	MJC
Aroclor-1260 [1]	2.8	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:09	MJC
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:09	MJC
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:09	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		5/18/12 11:09
Decachlorobiphenyl [2]	97.0	30-150		5/18/12 11:09
Tetrachloro-m-xylene [1]	96.0	30-150		5/18/12 11:09
Tetrachloro-m-xylene [2]	99.5	30-150		5/18/12 11:09

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0246

Date Received: 5/4/2012

Field Sample #: PH-CBC-451 | Sampled: 5/4/2012 07:55

Sample ID: 12E0246-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 19:11	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 19:11	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 19:11	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 19:11	MJC
Aroclor-1248 [1]	0.11	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 19:11	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 19:11	MJC
Aroclor-1260 [1]	0.76	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 19:11	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 19:11	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 19:11	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	113	30-150		5/17/12 19:11
Decachlorobiphenyl [2]	86.9	30-150		5/17/12 19:11
Tetrachloro-m-xylene [1]	101	30-150		5/17/12 19:11
Tetrachloro-m-xylene [2]	96.6	30-150		5/17/12 19:11

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0246-01 [PH-CBC-450]	B051692	2.00	10.0	05/16/12
12E0246-02 [PH-CBC-451]	B051692	2.00	10.0	05/16/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051692 - SW-846 3540C										
Blank (B051692-BLK1)				Prepared: 05/16/12 Analyzed: 05/17/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.915*		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.991*		mg/Kg	1.00		99.1	30-150			
LCS (B051692-BS1)				Prepared: 05/16/12 Analyzed: 05/17/12						
Aroclor-1016	0.29	0.10	mg/Kg	0.250		118	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		119	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		109	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140			
Surrogate: Decachlorobiphenyl	*1.21*		mg/Kg	1.00		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.16*		mg/Kg	1.00		116	30-150			
LCS Dup (B051692-BSD1)				Prepared: 05/16/12 Analyzed: 05/17/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		108	40-140	8.39	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		109	40-140	8.70	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.5	40-140	12.1	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		97.5	40-140	12.0	30	
Surrogate: Decachlorobiphenyl	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.923*		mg/Kg	1.00		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.964*		mg/Kg	1.00		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.995*		mg/Kg	1.00		99.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B051692 - SW-846 3540C											
Matrix Spike (B051692-MS1)		**Source: 12E0246-01**		Prepared: 05/16/12 Analyzed: 05/17/12							
Aroclor-1016	0.37	0.10	mg/Kg	0.250	0.0	**148**	*	40-140			MS-21
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250	0.0	131		40-140			
Aroclor-1260	2.6	0.10	mg/Kg	0.250	2.8	**-105**	*	40-140			MS-19
Aroclor-1260 [2C]	2.4	0.10	mg/Kg	0.250	2.8	**-158**	*	40-140			MS-19
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.938*		mg/Kg	1.00		93.8		30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	1.00		100		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104		30-150			
Matrix Spike Dup (B051692-MSD1)		**Source: 12E0246-01**		Prepared: 05/16/12 Analyzed: 05/17/12							
Aroclor-1016	0.36	0.10	mg/Kg	0.250	0.0	**145**	*	40-140	1.72	50	MS-21
Aroclor-1016 [2C]	0.33	0.10	mg/Kg	0.250	0.0	131		40-140	0.391	50	
Aroclor-1260	2.7	0.10	mg/Kg	0.250	2.8	**-35.6**	*	40-140	6.51	50	MS-19
Aroclor-1260 [2C]	2.5	0.10	mg/Kg	0.250	2.8	**-97.1**	*	40-140	6.26	50	MS-19
Surrogate: Decachlorobiphenyl	*1.10*		mg/Kg	1.00		110		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.972*		mg/Kg	1.00		97.2		30-150			
Surrogate: Tetrachloro-m-xylene	*0.964*		mg/Kg	1.00		96.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.994*		mg/Kg	1.00		99.4		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12E0246

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Haru Univ Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax # jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C Sulfat	ANALYSIS REQUESTED
01	PH-LBL-450	5/4/12	0750			C	Unk	HOLD	unpainted wall
02	PH-LBL-451	↓	0755			C	Unk	HOLD	12" from door joint

*Activate on a 48 hour TAT, due 5/18/12 per Amy W. MET 5/16/12

Comments: © concrete (*) Samples on hold pending release by WTC.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Kim K Rinard	Date/Time: 5/4/12 1115
Received by: (signature) Stephen J Beck	Date/Time: 5/4/12 1115
Relinquished by: (signature) Stephen J Beck	Date/Time: 5-4-12 1717
Received by: (signature) Paula Blake	Date/Time: 1717 5-4-12

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers	1
** Preservation	I
***Container Code	G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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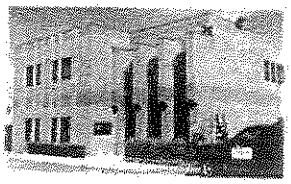

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: ~~C.C.S.~~ PB DATE: 5/4/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.5°C

5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Meghan Kelley

From: Amy Wallace [awallace@woodardcurran.com]
Sent: Wednesday, May 16, 2012 9:56 AM
To: Kelley Meghan
Cc: Jeff Hamel
Subject: Additional samples to release for analysis

Hi Meghan

We need to have four additional samples analyzed from the group of Pound Hall samples received by the lab on Friday May 4th. These should be 48-hour turn PCB analysis. The sample IDs end with numbers:

-442
-446
-450
-451

Thank you,
Amy

Sent from my iPhone=

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0246
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0246-01 thru 12E0246-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/18/12

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May 8, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0247

Enclosed are results of analyses for samples received by the laboratory on May 4, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/8/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0247

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CBC-447	12E0247-06	Concrete		SW-846 8082A	
PH-CBC-448	12E0247-07	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12E0247

Date Received: 5/4/2012

Field Sample #: PH-CBC-447
Sampled: 5/3/2012 16:45

Sample ID: 12E0247-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:02	MJC
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:02	MJC
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:02	MJC
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:02	MJC
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:02	MJC
Aroclor-1254 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:02	MJC
Aroclor-1260 [2]	2.1	0.45	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:02	MJC
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:02	MJC
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:02	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	87.9	30-150		5/7/12 20:02
Decachlorobiphenyl [2]	85.9	30-150		5/7/12 20:02
Tetrachloro-m-xylene [1]	101	30-150		5/7/12 20:02
Tetrachloro-m-xylene [2]	105	30-150		5/7/12 20:02

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Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12E0247

Date Received: 5/4/2012

Field Sample #: PH-CBC-448
Sampled: 5/3/2012 17:20

Sample ID: 12E0247-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:15	MJC
Aroclor-1221 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:15	MJC
Aroclor-1232 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:15	MJC
Aroclor-1242 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:15	MJC
Aroclor-1248 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:15	MJC
Aroclor-1254 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:15	MJC
Aroclor-1260 [2]	5.3	0.43	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:15	MJC
Aroclor-1262 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:15	MJC
Aroclor-1268 [1]	ND	0.43	mg/Kg	5		SW-846 8082A	5/4/12	5/7/12 20:15	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.3	30-150		5/7/12 20:15
Decachlorobiphenyl [2]	92.4	30-150		5/7/12 20:15
Tetrachloro-m-xylene [1]	107	30-150		5/7/12 20:15
Tetrachloro-m-xylene [2]	110	30-150		5/7/12 20:15

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0247-06 [PH-CBC-447]	B050881	2.20	10.0	05/04/12
12E0247-07 [PH-CBC-448]	B050881	2.30	10.0	05/04/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B050881 - SW-846 3540C										
Blank (B050881-BLK1)				Prepared: 05/04/12 Analyzed: 05/07/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.834*		mg/Kg	1.00		83.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.898*		mg/Kg	1.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.973*		mg/Kg	1.00		97.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101	30-150			
LCS (B050881-BS1)				Prepared: 05/04/12 Analyzed: 05/07/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250		94.3	40-140			
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		98.6	40-140			
Aroclor-1260	0.23	0.10	mg/Kg	0.250		90.3	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		95.9	40-140			
Surrogate: Decachlorobiphenyl	*0.858*		mg/Kg	1.00		85.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.913*		mg/Kg	1.00		91.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.992*		mg/Kg	1.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			
LCS Dup (B050881-BSD1)				Prepared: 05/04/12 Analyzed: 05/07/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250		97.5	40-140	3.35	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140	3.88	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250		90.2	40-140	0.106	30	
Aroclor-1260 [2C]	0.25	0.10	mg/Kg	0.250		99.9	40-140	4.13	30	
Surrogate: Decachlorobiphenyl	*0.861*		mg/Kg	1.00		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.919*		mg/Kg	1.00		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		mg/Kg	1.00		109	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12E0247

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax # jhamel@woodardcurran.com
Email: awallace@ " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 2011 1211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA B082/3540C Soxhlet										
01	PH-CBL-438	5/3/12	1600					HOLD		Bsmt Mech Rm Unpainted								
02	PH-CBLD-439		1600					HOLD										
03	PH-CBL-442		1615					HOLD										
04	PH-CBL-445		1700					HOLD										
05	PH-CBL-446		1635					HOLD		10ft from door "K" (447)								
(*) 06	PH-CBL-447		1645					HOLD		←								
(*) 07	PH-CBL-448		1720					HOLD										
08	PH-CBL-449		1735					HOLD										

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: (*) All samples on hold pending release by W+C
(*) Analyze per attached email. MEK 5/7/2012

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Kim K. Rinard	5/4/12 1115
Received by: (signature)	Date/Time:
[signature]	5/4/12 1115
Relinquished by: (signature)	Date/Time:
[signature]	5/4/12 1717
Received by: (signature)	Date/Time:
Paula Blakeb	5.4.12 1717

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
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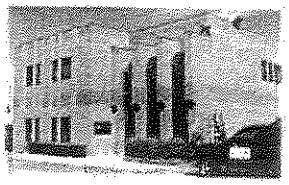

Sample Receipt Checklist

PB

CLIENT NAME: Woodard + Curran RECEIVED BY: [illegible] DATE: 5/4/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.5°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)		2 oz amber/clear jar	6
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Meghan Kelley

From: Amy Wallace [awallace@woodardcurran.com]
Sent: Friday, May 04, 2012 2:30 PM
To: mkelley@contestlabs.com
Subject: samples to release for analysis

Hi Meghan

I believe the courier has picked up a group of samples from Kim at Pound Hall today, and all of these are marked as "hold" samples. We didn't know which ones Harvard would want to analyze pending the results of a project meeting earlier this morning. So - now we do know that we want to analyze at least two of these samples! Can you please log the following two samples in for 48-hour analysis when they arrive?

PH-CBC-447
PH-CBC-448

Thank you,
Amy

Amy Wallace, PE
Woodard & Curran
41 Hutchins Drive
Portland, ME 04102
207-774-2112 (office)
413-822-2380 (cell)

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0247
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0247-06 thru 12E0247-07

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/08/12

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

August 21, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Pound Hall - Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0291

Enclosed are results of analyses for samples received by the laboratory on May 7, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 8/21/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0291

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

PROJECT LOCATION: Pound Hall - Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CN-452	12E0291-01	Paint		SW-846 8082A	
PH-CN-453	12E0291-02	Paint		SW-846 8082A	
PH-CN-454	12E0291-03	Paint		SW-846 8082A	
PH-CN-455	12E0291-04	Paint		SW-846 8082A	
PH-CN-456	12E0291-05	Paint		SW-846 8082A	
PH-CN-457	12E0291-06	Paint		SW-846 8082A	
PH-CN-458	12E0291-07	Paint		SW-846 8082A	
PH-CN-459	12E0291-08	Paint		SW-846 8082A	
PH-CN-460	12E0291-09	Paint		SW-846 8082A	
PH-CN-461	12E0291-10	Paint		SW-846 8082A	
PH-CN-462	12E0291-11	Paint		SW-846 8082A	
PH-CND-463	12E0291-12	Paint		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 08/21/2012 - Sample 12E0291-12 ID revised per clients request.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Project Chemist

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

Project Location: Pound Hall - Cambridge, MA
Sample Description:
Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-452
Sampled: 5/4/2012 14:35

Sample ID: 12E0291-01

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:12	JMB
Aroclor-1221 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:12	JMB
Aroclor-1232 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:12	JMB
Aroclor-1242 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:12	JMB
Aroclor-1248 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:12	JMB
Aroclor-1254 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:12	JMB
Aroclor-1260 [1]	87	5.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:12	JMB
Aroclor-1262 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:12	JMB
Aroclor-1268 [1]	ND	5.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	108	30-150		5/8/12 16:12
Decachlorobiphenyl [2]	103	30-150		5/8/12 16:12
Tetrachloro-m-xylene [1]	114	30-150		5/8/12 16:12
Tetrachloro-m-xylene [2]	118	30-150		5/8/12 16:12

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Project Location: Pound Hall - Cambridge, MA Sample Description: Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-453 Sampled: 5/4/2012 15:00

Sample ID: 12E0291-02

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.7	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 16:25	JMB
Aroclor-1221 [1]	ND	8.7	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 16:25	JMB
Aroclor-1232 [1]	ND	8.7	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 16:25	JMB
Aroclor-1242 [1]	ND	8.7	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 16:25	JMB
Aroclor-1248 [1]	ND	8.7	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 16:25	JMB
Aroclor-1254 [1]	ND	8.7	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 16:25	JMB
Aroclor-1260 [2]	100	8.7	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 16:25	JMB
Aroclor-1262 [1]	ND	8.7	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 16:25	JMB
Aroclor-1268 [1]	ND	8.7	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 16:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	114	30-150		5/8/12 16:25
Decachlorobiphenyl [2]	102	30-150		5/8/12 16:25
Tetrachloro-m-xylene [1]	115	30-150		5/8/12 16:25
Tetrachloro-m-xylene [2]	125	30-150		5/8/12 16:25

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Project Location: Pound Hall - Cambridge, MA
Sample Description:
Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-454
Sampled: 5/4/2012 15:30

Sample ID: 12E0291-03

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.1	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:38	JMB
Aroclor-1221 [1]	ND	4.1	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:38	JMB
Aroclor-1232 [1]	ND	4.1	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:38	JMB
Aroclor-1242 [1]	ND	4.1	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:38	JMB
Aroclor-1248 [1]	ND	4.1	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:38	JMB
Aroclor-1254 [1]	ND	4.1	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:38	JMB
Aroclor-1260 [1]	17	4.1	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:38	JMB
Aroclor-1262 [1]	ND	4.1	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:38	JMB
Aroclor-1268 [1]	ND	4.1	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	110	30-150		5/8/12 16:38
Decachlorobiphenyl [2]	110	30-150		5/8/12 16:38
Tetrachloro-m-xylene [1]	119	30-150		5/8/12 16:38
Tetrachloro-m-xylene [2]	126	30-150		5/8/12 16:38

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Project Location: Pound Hall - Cambridge, MA Sample Description: Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-455 Sampled: 5/4/2012 16:00

Sample ID: 12E0291-04

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:51	JMB
Aroclor-1221 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:51	JMB
Aroclor-1232 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:51	JMB
Aroclor-1242 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:51	JMB
Aroclor-1248 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:51	JMB
Aroclor-1254 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:51	JMB
Aroclor-1260 [1]	45	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:51	JMB
Aroclor-1262 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:51	JMB
Aroclor-1268 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 16:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	68.0	30-150		5/8/12 16:51
Decachlorobiphenyl [2]	63.5	30-150		5/8/12 16:51
Tetrachloro-m-xylene [1]	116	30-150		5/8/12 16:51
Tetrachloro-m-xylene [2]	122	30-150		5/8/12 16:51

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Project Location: Pound Hall - Cambridge, MA Sample Description: Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-456 Sampled: 5/4/2012 17:00

Sample ID: 12E0291-05

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:04	JMB
Aroclor-1221 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:04	JMB
Aroclor-1232 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:04	JMB
Aroclor-1242 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:04	JMB
Aroclor-1248 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:04	JMB
Aroclor-1254 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:04	JMB
Aroclor-1260 [2]	39	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:04	JMB
Aroclor-1262 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:04	JMB
Aroclor-1268 [1]	ND	4.0	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	116	30-150		5/8/12 17:04
Decachlorobiphenyl [2]	117	30-150		5/8/12 17:04
Tetrachloro-m-xylene [1]	112	30-150		5/8/12 17:04
Tetrachloro-m-xylene [2]	120	30-150		5/8/12 17:04

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Project Location: Pound Hall - Cambridge, MA
Sample Description:
Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-457
Sampled: 5/4/2012 18:15

Sample ID: 12E0291-06

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	4.3	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:17	JMB
Aroclor-1221 [1]	ND	4.3	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:17	JMB
Aroclor-1232 [1]	ND	4.3	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:17	JMB
Aroclor-1242 [1]	ND	4.3	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:17	JMB
Aroclor-1248 [1]	ND	4.3	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:17	JMB
Aroclor-1254 [1]	ND	4.3	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:17	JMB
Aroclor-1260 [1]	86	4.3	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:17	JMB
Aroclor-1262 [1]	ND	4.3	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:17	JMB
Aroclor-1268 [1]	ND	4.3	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		5/8/12 17:17
Decachlorobiphenyl [2]	109	30-150		5/8/12 17:17
Tetrachloro-m-xylene [1]	118	30-150		5/8/12 17:17
Tetrachloro-m-xylene [2]	125	30-150		5/8/12 17:17

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Project Location: Pound Hall - Cambridge, MA
Sample Description:
Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-458
Sampled: 5/7/2012 08:30

Sample ID: 12E0291-07

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:30	JMB
Aroclor-1221 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:30	JMB
Aroclor-1232 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:30	JMB
Aroclor-1242 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:30	JMB
Aroclor-1248 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:30	JMB
Aroclor-1254 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:30	JMB
Aroclor-1260 [1]	44	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:30	JMB
Aroclor-1262 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:30	JMB
Aroclor-1268 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.3	30-150		5/8/12 17:30
Decachlorobiphenyl [2]	114	30-150		5/8/12 17:30
Tetrachloro-m-xylene [1]	118	30-150		5/8/12 17:30
Tetrachloro-m-xylene [2]	128	30-150		5/8/12 17:30

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Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-459 | Sampled: 5/7/2012 11:00

Sample ID: 12E0291-08

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.8	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 17:43	JMB
Aroclor-1221 [1]	ND	8.8	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 17:43	JMB
Aroclor-1232 [1]	ND	8.8	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 17:43	JMB
Aroclor-1242 [1]	ND	8.8	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 17:43	JMB
Aroclor-1248 [1]	ND	8.8	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 17:43	JMB
Aroclor-1254 [1]	ND	8.8	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 17:43	JMB
Aroclor-1260 [2]	150	8.8	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 17:43	JMB
Aroclor-1262 [1]	ND	8.8	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 17:43	JMB
Aroclor-1268 [1]	ND	8.8	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 17:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	128	30-150		5/8/12 17:43
Decachlorobiphenyl [2]	129	30-150		5/8/12 17:43
Tetrachloro-m-xylene [1]	122	30-150		5/8/12 17:43
Tetrachloro-m-xylene [2]	133	30-150		5/8/12 17:43

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

Project Location: Pound Hall - Cambridge, MA Sample Description: Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-460 Sampled: 5/7/2012 13:30

Sample ID: 12E0291-09

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:56	JMB
Aroclor-1221 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:56	JMB
Aroclor-1232 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:56	JMB
Aroclor-1242 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:56	JMB
Aroclor-1248 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:56	JMB
Aroclor-1254 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:56	JMB
Aroclor-1260 [2]	46	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:56	JMB
Aroclor-1262 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:56	JMB
Aroclor-1268 [1]	ND	3.9	mg/Kg	10		SW-846 8082A	5/7/12	5/8/12 17:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		5/8/12 17:56
Decachlorobiphenyl [2]	102	30-150		5/8/12 17:56
Tetrachloro-m-xylene [1]	117	30-150		5/8/12 17:56
Tetrachloro-m-xylene [2]	125	30-150		5/8/12 17:56

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Project Location: Pound Hall - Cambridge, MA
Sample Description:
Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-461
Sampled: 5/7/2012 13:40

Sample ID: 12E0291-10

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.4	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:09	JMB
Aroclor-1221 [1]	ND	8.4	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:09	JMB
Aroclor-1232 [1]	ND	8.4	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:09	JMB
Aroclor-1242 [1]	ND	8.4	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:09	JMB
Aroclor-1248 [1]	ND	8.4	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:09	JMB
Aroclor-1254 [1]	ND	8.4	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:09	JMB
Aroclor-1260 [2]	68	8.4	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:09	JMB
Aroclor-1262 [1]	ND	8.4	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:09	JMB
Aroclor-1268 [1]	ND	8.4	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	100	30-150		5/8/12 18:09
Decachlorobiphenyl [2]	83.8	30-150		5/8/12 18:09
Tetrachloro-m-xylene [1]	121	30-150		5/8/12 18:09
Tetrachloro-m-xylene [2]	133	30-150		5/8/12 18:09

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

Project Location: Pound Hall - Cambridge, MA
Sample Description:
Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CN-462
Sampled: 5/7/2012 14:00

Sample ID: 12E0291-11

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:22	JMB
Aroclor-1221 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:22	JMB
Aroclor-1232 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:22	JMB
Aroclor-1242 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:22	JMB
Aroclor-1248 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:22	JMB
Aroclor-1254 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:22	JMB
Aroclor-1260 [1]	130	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:22	JMB
Aroclor-1262 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:22	JMB
Aroclor-1268 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	112	30-150		5/8/12 18:22
Decachlorobiphenyl [2]	96.2	30-150		5/8/12 18:22
Tetrachloro-m-xylene [1]	116	30-150		5/8/12 18:22
Tetrachloro-m-xylene [2]	127	30-150		5/8/12 18:22

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Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12E0291

Date Received: 5/7/2012

Field Sample #: PH-CND-463 | Sampled: 5/7/2012 11:00

Sample ID: 12E0291-12

Sample Matrix: Paint

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:35	JMB
Aroclor-1221 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:35	JMB
Aroclor-1232 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:35	JMB
Aroclor-1242 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:35	JMB
Aroclor-1248 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:35	JMB
Aroclor-1254 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:35	JMB
Aroclor-1260 [2]	140	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:35	JMB
Aroclor-1262 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:35	JMB
Aroclor-1268 [1]	ND	8.1	mg/Kg	20		SW-846 8082A	5/7/12	5/8/12 18:35	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	125	30-150		5/8/12 18:35
Decachlorobiphenyl [2]	107	30-150		5/8/12 18:35
Tetrachloro-m-xylene [1]	119	30-150		5/8/12 18:35
Tetrachloro-m-xylene [2]	129	30-150		5/8/12 18:35

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0291-01 [PH-CN-452]	B051061	0.201	10.0	05/07/12
12E0291-02 [PH-CN-453]	B051061	0.231	10.0	05/07/12
12E0291-03 [PH-CN-454]	B051061	0.241	10.0	05/07/12
12E0291-04 [PH-CN-455]	B051061	0.252	10.0	05/07/12
12E0291-05 [PH-CN-456]	B051061	0.247	10.0	05/07/12
12E0291-06 [PH-CN-457]	B051061	0.232	10.0	05/07/12
12E0291-07 [PH-CN-458]	B051061	0.256	10.0	05/07/12
12E0291-08 [PH-CN-459]	B051061	0.228	10.0	05/07/12
12E0291-09 [PH-CN-460]	B051061	0.257	10.0	05/07/12
12E0291-10 [PH-CN-461]	B051061	0.237	10.0	05/07/12
12E0291-11 [PH-CN-462]	B051061	0.246	10.0	05/07/12
12E0291-12 [PH-CND-463]	B051061	0.248	10.0	05/07/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051061 - SW-846 3540C										
Blank (B051061-BLK1)				Prepared: 05/07/12 Analyzed: 05/08/12						
Aroclor-1016	ND	0.49	mg/Kg							
Aroclor-1016 [2C]	ND	0.49	mg/Kg							
Aroclor-1221	ND	0.49	mg/Kg							
Aroclor-1221 [2C]	ND	0.49	mg/Kg							
Aroclor-1232	ND	0.49	mg/Kg							
Aroclor-1232 [2C]	ND	0.49	mg/Kg							
Aroclor-1242	ND	0.49	mg/Kg							
Aroclor-1242 [2C]	ND	0.49	mg/Kg							
Aroclor-1248	ND	0.49	mg/Kg							
Aroclor-1248 [2C]	ND	0.49	mg/Kg							
Aroclor-1254	ND	0.49	mg/Kg							
Aroclor-1254 [2C]	ND	0.49	mg/Kg							
Aroclor-1260	ND	0.49	mg/Kg							
Aroclor-1260 [2C]	ND	0.49	mg/Kg							
Aroclor-1262	ND	0.49	mg/Kg							
Aroclor-1262 [2C]	ND	0.49	mg/Kg							
Aroclor-1268	ND	0.49	mg/Kg							
Aroclor-1268 [2C]	ND	0.49	mg/Kg							
Surrogate: Decachlorobiphenyl	*8.69*		mg/Kg	9.85		88.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*8.69*		mg/Kg	9.85		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*10.6*		mg/Kg	9.85		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*9.94*		mg/Kg	9.85		101	30-150			
LCS (B051061-BS1)				Prepared: 05/07/12 Analyzed: 05/08/12						
Aroclor-1016	2.7	0.50	mg/Kg	2.48		110	40-140			
Aroclor-1016 [2C]	2.5	0.50	mg/Kg	2.48		102	40-140			
Aroclor-1260	2.3	0.50	mg/Kg	2.48		93.5	40-140			
Aroclor-1260 [2C]	2.1	0.50	mg/Kg	2.48		85.0	40-140			
Surrogate: Decachlorobiphenyl	*8.51*		mg/Kg	9.90		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*8.72*		mg/Kg	9.90		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	*10.7*		mg/Kg	9.90		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*10.1*		mg/Kg	9.90		102	30-150			
LCS Dup (B051061-BSD1)				Prepared: 05/07/12 Analyzed: 05/08/12						
Aroclor-1016	2.6	0.48	mg/Kg	2.39		109	40-140	4.38	30	
Aroclor-1016 [2C]	2.6	0.48	mg/Kg	2.39		110	40-140	3.72	30	
Aroclor-1260	2.4	0.48	mg/Kg	2.39		99.4	40-140	2.73	30	
Aroclor-1260 [2C]	2.3	0.48	mg/Kg	2.39		95.9	40-140	8.72	30	
Surrogate: Decachlorobiphenyl	*9.07*		mg/Kg	9.57		94.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*9.45*		mg/Kg	9.57		98.8	30-150			
Surrogate: Tetrachloro-m-xylene	*10.7*		mg/Kg	9.57		112	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*10.4*		mg/Kg	9.57		109	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12E0241

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland ME
Attention: J Hamel, A Wallace
Project Location: Harv. Univ. Pound Hall
Sampled By: Kim Rinaldi + Jill Russell

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax # jhamel@woodardcurran.com
Email: awallace@ " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED: EPA 8082 / 3540C Soxhlet

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 / 3540C Soxhlet			# of Containers	** Preservation	***Container Code
-01	PH-CN-452	5/4/12	1435			N	UNK	✓			MEP	2	
-02	PH-CN-453		1500					✓			CMU	1	
-03	PH-CN-454		1530					✓			SHEETROCK	1	
-04	PH-CN-455		1600					✓			WALL	1	
-05	PH-CN-456		1700			N	UNK	✓			CEILING	1	
-06	PH-CN-457	5/4/12	1815					✓			WALL	2	
-07	PH-CN-458	5/7/12	0830					✓			CMU	2	
-08	PH-CN-459		1100					✓			CEILING	2	
-09	PH-CN-460		1330					✓			SHEETROCK	2	
-10	PH-CN-461	5/7/12	1340			N	UNK	✓			MEP	1	

Dissolved Metal
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other N = PAINT

Comments: ① EPA 8082 VIA 3540C Soxhlet ② N = Paint ③ RL ≤ 1mg/kg
④ SAMPLES ALL ACTIVE FOR 48 HR TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Kim K Rinaldi	5/7/12 1800
Received by: (signature)	Date/Time: 5/7/12 1800
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA ACCREDITED LABORATORY
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Email: info@contestlabs.com
www.contestlabs.com
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EAST LONGMEADOW, MA 01028

AIR SAMPLE CHAIN OF CUSTODY RECORD

12E0291

Company Name: Woodard + Curran
Address: 41 Re Hutchins Drive
Portland, ME
Attention: J. Hamel, A. Wallace
Project Location: Harv. Univ. Pound Hall
Sampled By: Kim Rinard + Jill Russell

Telephone:( )
Project # 223868
Client PO #

DATA DELIVERY (check one):
☐ FAX ☑ EMAIL ☐ WEBSITE CLIENT
~~Fax #~~ : jhamel@woodard curran.com
Email: awallace@ " " " "
Format: ☑ EXCEL ☑ PDF ☐ GIS KEY ☐ OTHER___

Proposal Provided? (For Billing purposes)
☑ yes 2011 1211 proposal date

Please fill out completely, sign, da and retain the yello copy for your recor

Summa canisters a flow controllers mu e returned within 14 of receipt or rental will apply.

Summa canisters will be retained for a minimum of 14 days after sampling date prior to cleaning.

Field ID	Sample Description	Media	Lab #	Date Sampled Start Date Time	Date Sampled Stop Date Time	Total Minutes Sampled	Flow Rate M^3/Min. or L / Min.	Volume Liters or M^3	Matrix Code*	ANALYSIS REQUESTED: EPA 8082/3540C Soxhlet				" Hg Initial pressure	" Hg Final pressure	" Hg Lab Receipt pressure	Summa Canister ID	Flow Controller ID
	PH-CN-462	N	-11	5/7/12	1400				N	✓	CONCRETE WALL							
	PH-CND-463	N	-12	5/7/12	1100				N	✓	CEILING (-459)							

5/7/12

Laboratory Comments:
① N= Paint, ② EPA 8082 via 3540C Soxhlet ③ RL ≤ 1mg/kg
④ Samples all active for 48 Hr TAT (2 pages)

CLIENT COMMENTS:

Relinquished by: (signature)	Date/Time:
K Rinard	5/7/12 1800
Received by: (signature)	Date/Time:
	5/7/12 1800
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround **
☐ 7-Day
☐ 10-Day
☐ Other ___
RUSH *
☐ *24-Hr ☑ *48-Hr
☐ *72-Hr ☐ *4-Day
*Approval Required

Special Requirements
Regulations:
Data Enhancement/RCP? ☐ Y ☐ N
Enhanced Data Package ☐ Y ☐ N
(Surchage Applies)
Required Detection Limits: RL ≤ 1mg/kg
Other:

***Matrix Code:**
SG= SOIL GAS
IA= INDOOR AIR
AMB=AMBIENT
SS = SUB SLAB
D = DUP
BL = BLANK
O = other_____

****Media Codes:**
S=summa can
TB=tedlar bag
P=PUF
T=tube
F= filter
C=cassette
O = Other_____

** TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

AIHA, NELAC & WBE/DBE Certified

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: CEC DATE: 5/7/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☑ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 9.4°

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	12
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0291
Project Location: Pound Hall - Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0291-01 thru 12E0291-12

Matrices: Paint

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 05/09/12

12E0291-01 PH-CN-452

Analyte	Results		%RPD
Aroclor-1260	87	85.17164	2.12
Surrogates			
Decachlorobiphenyl	10.8	10.24677	5.26
Tetrachloro-m-xylene	11.3	11.71741	3.63

12E0291-02 PH-CN-453

Analyte	Results		%RPD
Aroclor-1260 [2C]	100	100.161	0.161
Surrogates			
Decachlorobiphenyl	9.84	8.84935	10.6
Tetrachloro-m-xylene	10.0	10.79913	7.68

12E0291-03 PH-CN-454

Analyte	Results		%RPD
Aroclor-1260	17	16.35062	3.89
Surrogates			
Decachlorobiphenyl	9.14	9.143984	0.0436
Tetrachloro-m-xylene	9.90	10.45602	5.46

12E0291-04 PH-CN-455

Analyte	Results		%RPD
Aroclor-1260	45	43.97143	2.31
Surrogates			
Decachlorobiphenyl	5.40	5.040079	6.89
Tetrachloro-m-xylene	9.18	9.71627	5.68

12E0291-05 PH-CN-456

Analyte	Results		%RPD
Aroclor-1260 [2C]	39	38.10486	2.32
Surrogates			
Decachlorobiphenyl	9.37	9.508502	1.47
Tetrachloro-m-xylene	9.09	9.718219	6.68

12E0291-06 PH-CN-457

Analyte	Results		%RPD
Aroclor-1260	86	82.39268	4.28
Surrogates			
Decachlorobiphenyl	9.21	9.399569	2.04
Tetrachloro-m-xylene	10.1	10.7569	6.3

12E0291-07 PH-CN-458

Analyte	Results		%RPD
Aroclor-1260	44	41.93398	4.81
Surrogates			
Decachlorobiphenyl	7.76	8.942578	14.2
Tetrachloro-m-xylene	9.20	9.992187	8.26

12E0291-08 PH-CN-459

Analyte	Results		%RPD
Aroclor-1260 [2C]	150	140.2877	6.69
Surrogates			
Tetrachloro-m-xylene	10.7	11.69649	8.9
Decachlorobiphenyl	11.2	11.2807	0.718

12E0291-09 PH-CN-460

Analyte	Results		%RPD
Aroclor-1260 [2C]	46	45.11751	1.94
Surrogates			
Decachlorobiphenyl	7.95	7.962257	0.154
Tetrachloro-m-xylene	9.14	9.707393	6.02

12E0291-10 PH-CN-461

Analyte	Results		%RPD
Aroclor-1260 [2C]	68	64.99916	4.51
Surrogates			
Decachlorobiphenyl	8.45	7.075105	17.7
Tetrachloro-m-xylene	10.2	11.21097	9.44

12E0291-11 PH-CN-462

Analyte	Results		%RPD
Aroclor-1260	130	127.7106	1.78
Surrogates			
Decachlorobiphenyl	9.10	7.821138	15.1
Tetrachloro-m-xylene	9.44	10.30488	8.76

12E0291-12 PH-CN-463

Analyte	Results		%RPD
Aroclor-1260 [2C]	140	139.7016	0.213
Surrogates			
Decachlorobiphenyl	10.1	8.621774	15.8
Tetrachloro-m-xylene	9.62	10.41855	7.97

B051061-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	8.69	8.687045	0.034
Tetrachloro-m-xylene	10.6	9.942365	6.4

B051061-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	2.7	2.525099	6.69
Aroclor-1260	2.3	2.103416	8.93
Surrogates			
Decachlorobiphenyl	8.51	8.717376	2.41
Tetrachloro-m-xylene	10.7	10.08554	5.91

B051061-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	2.6	2.620765	0.795
Aroclor-1260	2.4	2.295119	4.47
Surrogates			
Tetrachloro-m-xylene	10.7	10.39225	2.92
Decachlorobiphenyl	9.07	9.451005	4.11

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May 11, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0382

Enclosed are results of analyses for samples received by the laboratory on May 9, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/11/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0382

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CBC-438	12E0382-01	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

B051244-MS1, B051244-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0382

Date Received: 5/9/2012

Field Sample #: PH-CBC-438 | Sampled: 5/3/2012 16:00

Sample ID: 12E0382-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	5/9/12	5/11/12 8:24	MJC
Aroclor-1221 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	5/9/12	5/11/12 8:24	MJC
Aroclor-1232 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	5/9/12	5/11/12 8:24	MJC
Aroclor-1242 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	5/9/12	5/11/12 8:24	MJC
Aroclor-1248 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	5/9/12	5/11/12 8:24	MJC
Aroclor-1254 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	5/9/12	5/11/12 8:24	MJC
Aroclor-1260 [2]	7.4	0.95	mg/Kg	10		SW-846 8082A	5/9/12	5/11/12 8:24	MJC
Aroclor-1262 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	5/9/12	5/11/12 8:24	MJC
Aroclor-1268 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	5/9/12	5/11/12 8:24	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	112	30-150		5/11/12 8:24
Decachlorobiphenyl [2]	111	30-150		5/11/12 8:24
Tetrachloro-m-xylene [1]	108	30-150		5/11/12 8:24
Tetrachloro-m-xylene [2]	114	30-150		5/11/12 8:24

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0382-01 [PH-CBC-438]	B051244	2.10	10.0	05/09/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051244 - SW-846 3540C										
Blank (B051244-BLK1)				Prepared: 05/09/12 Analyzed: 05/10/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.968*		mg/Kg	1.00		96.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.896*		mg/Kg	1.00		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.969*		mg/Kg	1.00		96.9	30-150			
LCS (B051244-BS1)				Prepared: 05/09/12 Analyzed: 05/10/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140			
Aroclor-1260	0.28	0.10	mg/Kg	0.250		110	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140			
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		mg/Kg	1.00		109	30-150			
LCS Dup (B051244-BSD1)				Prepared: 05/09/12 Analyzed: 05/10/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		113	40-140	0.641	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140	1.57	30	
Aroclor-1260	0.28	0.10	mg/Kg	0.250		113	40-140	2.35	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140	3.15	30	
Surrogate: Decachlorobiphenyl	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.08*		mg/Kg	1.00		108	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	1.00		110	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B051244 - SW-846 3540C											
Matrix Spike (B051244-MS1)		**Source: 12E0382-01**		Prepared: 05/09/12 Analyzed: 05/10/12							
Aroclor-1016	0.34	0.48	mg/Kg	0.238	0.0	**142**	*	40-140			MS-19
Aroclor-1016 [2C]	0.37	0.48	mg/Kg	0.238	0.0	**156**	*	40-140			MS-19
Aroclor-1260	6.0	0.48	mg/Kg	0.238	6.8	**-365**	*	40-140			MS-19
Aroclor-1260 [2C]	6.3	0.48	mg/Kg	0.238	7.4	**-431**	*	40-140			MS-19
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	0.952		105		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.985*		mg/Kg	0.952		103		30-150			
Surrogate: Tetrachloro-m-xylene	*0.951*		mg/Kg	0.952		99.9		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	0.952		106		30-150			
Matrix Spike Dup (B051244-MSD1)		**Source: 12E0382-01**		Prepared: 05/09/12 Analyzed: 05/10/12							
Aroclor-1016	0.36	0.48	mg/Kg	0.238	0.0	**153**	*	40-140	7.44	50	MS-19
Aroclor-1016 [2C]	0.40	0.48	mg/Kg	0.238	0.0	**168**	*	40-140	7.63	50	MS-19
Aroclor-1260	6.2	0.48	mg/Kg	0.238	6.8	**-261**	*	40-140	4.05	50	MS-19
Aroclor-1260 [2C]	6.7	0.48	mg/Kg	0.238	7.4	**-278**	*	40-140	5.59	50	MS-19
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	0.952		117		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.10*		mg/Kg	0.952		116		30-150			
Surrogate: Tetrachloro-m-xylene	*1.10*		mg/Kg	0.952		116		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.18*		mg/Kg	0.952		123		30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12E0247

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax # jhamel@woodardcurran.com
Email: awallace@ " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 2011 12 11 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA B082/3540C Soxhlet	ANALYSIS REQUESTED
⊛ 01	PH-CBL-438	5/3/12	1600					HOLD	Basmt Mech Rm Unpainted
02	PH-CBLD-439		1600					HOLD	
03	PH-CBL-442		1615					HOLD	
04	PH-CBL-445		1700					HOLD	
05	PH-CBL-446		1635					HOLD	10ft from door "K" (447)
⊛ 06	PH-CBL-447		1645					HOLD	←
⊛ 07	PH-CBL-448		1720					HOLD	
08	PH-CBL-449		1735					HOLD	

⊛⊛ Activate for 48 hour TAT per Amy W. MEC 5/9/12

Comments: ⊛ All samples on hold pending release by W+C
⊛ Analyze per attached email. MEC 5/7/2012

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Kim K. Rinard	5/4/12 1115
Received by: (signature)	Date/Time:
[signature]	5/4/12 1115
Relinquished by: (signature)	Date/Time:
[signature]	5/4/12 1717
Received by: (signature)	Date/Time:
Paula Blakeley	5.4.12 1717

Turnaround†† ☐ 7-Day ☐ 10-Day ☐ Other ____
RUSH† ☐ †24-Hr ☒ 48-Hr ☐ †72-Hr ☐ 4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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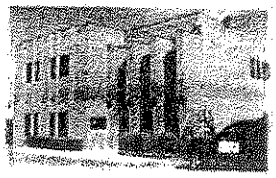

Sample Receipt Checklist

PB

CLIENT NAME: Woodard + Curran RECEIVED BY: [illegible] DATE: 5/4/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.5°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)		2 oz amber/clear jar	6
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277
Rev. 2 Sept 2011

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0382
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0382-01

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/11/12

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

May 14, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0471

Enclosed are results of analyses for samples received by the laboratory on May 11, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/14/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0471

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-467	12E0471-01	Concrete		SW-846 8082A	
PH-VBC-468	12E0471-02	Concrete		SW-846 8082A	
PH-VBC-469	12E0471-03	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0471

Date Received: 5/11/2012

Field Sample #: PH-VBC-467 | Sampled: 5/10/2012 11:25

Sample ID: 12E0471-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.35	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:24	JMB
Aroclor-1221 [1]	ND	0.35	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:24	JMB
Aroclor-1232 [1]	ND	0.35	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:24	JMB
Aroclor-1242 [1]	ND	0.35	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:24	JMB
Aroclor-1248 [1]	ND	0.35	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:24	JMB
Aroclor-1254 [1]	ND	0.35	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:24	JMB
Aroclor-1260 [1]	ND	0.35	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:24	JMB
Aroclor-1262 [1]	ND	0.35	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:24	JMB
Aroclor-1268 [1]	ND	0.35	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	112	30-150		5/14/12 11:24
Decachlorobiphenyl [2]	101	30-150		5/14/12 11:24
Tetrachloro-m-xylene [1]	99.2	30-150		5/14/12 11:24
Tetrachloro-m-xylene [2]	102	30-150		5/14/12 11:24

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0471

Date Received: 5/11/2012

Field Sample #: PH-VBC-468 | Sampled: 5/10/2012 11:50

Sample ID: 12E0471-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.36	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:37	JMB
Aroclor-1221 [1]	ND	0.36	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:37	JMB
Aroclor-1232 [1]	ND	0.36	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:37	JMB
Aroclor-1242 [1]	ND	0.36	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:37	JMB
Aroclor-1248 [1]	ND	0.36	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:37	JMB
Aroclor-1254 [1]	ND	0.36	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:37	JMB
Aroclor-1260 [1]	ND	0.36	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:37	JMB
Aroclor-1262 [1]	ND	0.36	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:37	JMB
Aroclor-1268 [1]	ND	0.36	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		5/14/12 11:37
Decachlorobiphenyl [2]	97.3	30-150		5/14/12 11:37
Tetrachloro-m-xylene [1]	96.2	30-150		5/14/12 11:37
Tetrachloro-m-xylene [2]	98.3	30-150		5/14/12 11:37

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0471

Date Received: 5/11/2012

Field Sample #: PH-VBC-469 | Sampled: 5/10/2012 13:25

Sample ID: 12E0471-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.34	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:50	JMB
Aroclor-1221 [1]	ND	0.34	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:50	JMB
Aroclor-1232 [1]	ND	0.34	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:50	JMB
Aroclor-1242 [1]	ND	0.34	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:50	JMB
Aroclor-1248 [1]	ND	0.34	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:50	JMB
Aroclor-1254 [1]	ND	0.34	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:50	JMB
Aroclor-1260 [1]	ND	0.34	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:50	JMB
Aroclor-1262 [1]	ND	0.34	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:50	JMB
Aroclor-1268 [1]	ND	0.34	mg/Kg	1		SW-846 8082A	5/11/12	5/14/12 11:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.3	30-150		5/14/12 11:50
Decachlorobiphenyl [2]	90.1	30-150		5/14/12 11:50
Tetrachloro-m-xylene [1]	85.6	30-150		5/14/12 11:50
Tetrachloro-m-xylene [2]	87.9	30-150		5/14/12 11:50

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0471-01 [PH-VBC-467]	B051376	0.566	10.0	05/11/12
12E0471-02 [PH-VBC-468]	B051376	0.551	10.0	05/11/12
12E0471-03 [PH-VBC-469]	B051376	0.586	10.0	05/11/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051376 - SW-846 3540C										
Blank (B051376-BLK1)				Prepared: 05/11/12 Analyzed: 05/12/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.887*		mg/Kg	1.00		88.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.950*		mg/Kg	1.00		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	1.00		106	30-150			
LCS (B051376-BS1)				Prepared: 05/11/12 Analyzed: 05/12/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250		97.6	40-140			
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		99.6	40-140			
Aroclor-1260	0.22	0.10	mg/Kg	0.250		89.8	40-140			
Aroclor-1260 [2C]	0.23	0.10	mg/Kg	0.250		90.9	40-140			
Surrogate: Decachlorobiphenyl	*0.850*		mg/Kg	1.00		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.905*		mg/Kg	1.00		90.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			
LCS Dup (B051376-BSD1)				Prepared: 05/11/12 Analyzed: 05/12/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250		96.2	40-140	1.44	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		99.6	40-140	0.0261	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250		91.7	40-140	2.06	30	
Aroclor-1260 [2C]	0.23	0.10	mg/Kg	0.250		93.9	40-140	3.21	30	
Surrogate: Decachlorobiphenyl	*0.878*		mg/Kg	1.00		87.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.933*		mg/Kg	1.00		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

12E0471

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A. Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard / Scott Keenan

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
~~Fax~~ # jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	*** Container Code	EPA 8082/3540C	Dissolved Metals (Field Filtered / Lab to Filter)
01	PH-VBC-467	5/10/12	1125			C	U	1	I	G	✓	IIIA (PRV)
02	PH-VBC-468	↓	1150			C	U	1	I	G	✓	IB (PRV)
03	PH-VBC-469	5/10/12	1325			C	U	1	I	G	✓	IIIB (PRV)

5/10/12

Comments: ① EPA 8082 via 3540C Soxhlet ② RL ≤ 1mg/kg
③ 2nd floor Post Removal Verification Sampling

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other
C = Concrete

Relinquished by: (signature)	Date/Time:
K. Rinard	5/10/12 1335
Received by: (signature)	Date/Time: 1540
5-11-12	
Relinquished by: (signature)	Date/Time: 1720
5-11-12	
Received by: (signature) Vincent Drago 4.4°C	Date/Time: 5/11/12 1820

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** VF **DATE:** 5/11/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No No CoC Included

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.4°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified Mike Date 5/11/12 Time 1820

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A)

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	3
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12E0451-41 051012UA-40

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.983	1.020045	3.7
Decachlorobiphenyl	0.820	0.87235	6.19

12E0471-01 PH-VBC-467

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	3.95	3.556838	10.5
Tetrachloro-m-xylene	3.50	3.600353	2.83

12E0471-02 PH-VBC-468

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	3.89	3.53323	9.61
Tetrachloro-m-xylene	3.49	3.568022	2.21

12E0471-03 PH-VBC-469

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	3.35	3.075119	8.56
Tetrachloro-m-xylene	2.92	2.999693	2.69

B051376-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.887	0.95049	6.91
Tetrachloro-m-xylene	1.02	1.05702	3.56

B051376-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.24	0.248985	3.67
Aroclor-1260	0.22	0.22736	3.29
Surrogates			
Tetrachloro-m-xylene	1.01	1.052555	4.13
Decachlorobiphenyl	0.850	0.90456	6.22

B051376-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.24	0.24892	3.65
Aroclor-1260	0.23	0.234775	2.05
Surrogates			
Decachlorobiphenyl	0.878	0.933055	6.08
Tetrachloro-m-xylene	1.00	1.040595	3.98

B051376-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.30	0.340795	12.7
Aroclor-1260	0.25	0.254965	1.97
Surrogates			
Decachlorobiphenyl	0.957	1.016945	6.07
Tetrachloro-m-xylene	1.06	1.093795	3.14

B051376-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.28	0.324745	14.8
Aroclor-1260	0.25	0.25099	0.395
Surrogates			
Tetrachloro-m-xylene	0.956	0.986735	3.16
Decachlorobiphenyl	0.893	0.926315	3.66

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0471
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0471-01 thru 12E0471-03

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 05/14/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 14, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0472

Enclosed are results of analyses for samples received by the laboratory on May 11, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/14/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0472

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CK-464	12E0472-01	Caulk		SW-846 8082A	
PH-CK-465	12E0472-02	Caulk		SW-846 8082A	
PH-CK-466	12E0472-03	Caulk		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

12E0472-03[PH-CK-466]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0472

Date Received: 5/11/2012

Field Sample #: PH-CK-464 | Sampled: 5/11/2012 10:30

Sample ID: 12E0472-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:04	JMB
Aroclor-1221 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:04	JMB
Aroclor-1232 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:04	JMB
Aroclor-1242 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:04	JMB
Aroclor-1248 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:04	JMB
Aroclor-1254 [2]	5.0	0.88	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:04	JMB
Aroclor-1260 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:04	JMB
Aroclor-1262 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:04	JMB
Aroclor-1268 [1]	ND	0.88	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	82.9	30-150		5/14/12 12:04
Decachlorobiphenyl [2]	85.0	30-150		5/14/12 12:04
Tetrachloro-m-xylene [1]	88.5	30-150		5/14/12 12:04
Tetrachloro-m-xylene [2]	90.6	30-150		5/14/12 12:04

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0472

Date Received: 5/11/2012

Field Sample #: PH-CK-465 | Sampled: 5/11/2012 13:00

Sample ID: 12E0472-02

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.91	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:17	JMB
Aroclor-1221 [1]	ND	0.91	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:17	JMB
Aroclor-1232 [1]	ND	0.91	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:17	JMB
Aroclor-1242 [1]	ND	0.91	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:17	JMB
Aroclor-1248 [1]	ND	0.91	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:17	JMB
Aroclor-1254 [2]	0.97	0.91	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:17	JMB
Aroclor-1260 [1]	ND	0.91	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:17	JMB
Aroclor-1262 [1]	ND	0.91	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:17	JMB
Aroclor-1268 [1]	ND	0.91	mg/Kg	5		SW-846 8082A	5/11/12	5/14/12 12:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		5/14/12 12:17
Decachlorobiphenyl [2]	109	30-150		5/14/12 12:17
Tetrachloro-m-xylene [1]	93.0	30-150		5/14/12 12:17
Tetrachloro-m-xylene [2]	94.7	30-150		5/14/12 12:17

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0472

Date Received: 5/11/2012

Field Sample #: PH-CK-466 | Sampled: 5/11/2012 14:30

Sample ID: 12E0472-03

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	43	mg/Kg	250		SW-846 8082A	5/11/12	5/14/12 12:30	JMB
Aroclor-1221 [1]	ND	43	mg/Kg	250		SW-846 8082A	5/11/12	5/14/12 12:30	JMB
Aroclor-1232 [1]	ND	43	mg/Kg	250		SW-846 8082A	5/11/12	5/14/12 12:30	JMB
Aroclor-1242 [1]	ND	43	mg/Kg	250		SW-846 8082A	5/11/12	5/14/12 12:30	JMB
Aroclor-1248 [1]	ND	43	mg/Kg	250		SW-846 8082A	5/11/12	5/14/12 12:30	JMB
Aroclor-1254 [2]	1100	43	mg/Kg	250		SW-846 8082A	5/11/12	5/14/12 12:30	JMB
Aroclor-1260 [1]	ND	43	mg/Kg	250		SW-846 8082A	5/11/12	5/14/12 12:30	JMB
Aroclor-1262 [1]	ND	43	mg/Kg	250		SW-846 8082A	5/11/12	5/14/12 12:30	JMB
Aroclor-1268 [1]	ND	43	mg/Kg	250		SW-846 8082A	5/11/12	5/14/12 12:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	5/14/12 12:30
Decachlorobiphenyl [2]	*	30-150	S-01	5/14/12 12:30
Tetrachloro-m-xylene [1]	*	30-150	S-01	5/14/12 12:30
Tetrachloro-m-xylene [2]	*	30-150	S-01	5/14/12 12:30

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0472-01 [PH-CK-464]	B051396	0.566	10.0	05/11/12
12E0472-02 [PH-CK-465]	B051396	0.551	10.0	05/11/12
12E0472-03 [PH-CK-466]	B051396	0.586	10.0	05/11/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051396 - SW-846 3540C										
Blank (B051396-BLK1)				Prepared: 05/11/12 Analyzed: 05/14/12						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*3.63*		mg/Kg	4.00		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.99*		mg/Kg	4.00		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	*3.95*		mg/Kg	4.00		98.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.00*		mg/Kg	4.00		99.9	30-150			
LCS (B051396-BS1)				Prepared: 05/11/12 Analyzed: 05/14/12						
Aroclor-1016	3.6	0.20	mg/Kg	4.00		88.9	40-140			
Aroclor-1016 [2C]	3.6	0.20	mg/Kg	4.00		89.9	40-140			
Aroclor-1260	3.4	0.20	mg/Kg	4.00		84.4	40-140			
Aroclor-1260 [2C]	3.4	0.20	mg/Kg	4.00		85.0	40-140			
Surrogate: Decachlorobiphenyl	*3.65*		mg/Kg	4.00		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.91*		mg/Kg	4.00		97.7	30-150			
Surrogate: Tetrachloro-m-xylene	*3.93*		mg/Kg	4.00		98.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.00*		mg/Kg	4.00		99.9	30-150			
LCS Dup (B051396-BSD1)				Prepared: 05/11/12 Analyzed: 05/14/12						
Aroclor-1016	3.7	0.20	mg/Kg	4.00		91.4	40-140	2.76	30	
Aroclor-1016 [2C]	3.7	0.20	mg/Kg	4.00		92.2	40-140	2.51	30	
Aroclor-1260	3.4	0.20	mg/Kg	4.00		85.7	40-140	1.56	30	
Aroclor-1260 [2C]	3.3	0.20	mg/Kg	4.00		82.8	40-140	2.59	30	
Surrogate: Decachlorobiphenyl	*3.44*		mg/Kg	4.00		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.72*		mg/Kg	4.00		92.9	30-150			
Surrogate: Tetrachloro-m-xylene	*3.99*		mg/Kg	4.00		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.03*		mg/Kg	4.00		101	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12E0472

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard / Jill Russell

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax # jhamel@woodardcurran.com
Email: Awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA-8082/3540C										
01	PH-CK-464	5/9/12	1030			K	U/H*	✓		soft, flexible, gray - non sticky								
02	PH-CK-465	5/9/12	1300			K	U/H*	✓		soft flexible tan - sticky								
03	PH-CK-466	5/9/12	1430			K	U/H	✓		soft sticky gray								

5/11/12

Comments: Roof AREA - newly exposed caulking surveyed 5/9/12
① EPA 8082 via 3540C by Soxhlet ② RL ≤ 1mg/kg ③ Potentially HOT source material - (U/H*)

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
K Rinard	5/10/12 1335
Received by: (signature)	Date/Time:
[signature]	5-11-12 1340
Relinquished by: (signature)	Date/Time:
[signature]	5-11-12 1820
Received by: (signature)	Date/Time:
Vincent Frugo 4.4°C	5/11/12 1820

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other____
K = caulking

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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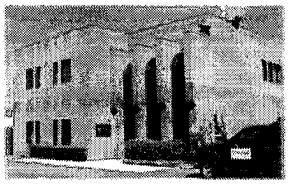

Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** VF **DATE:** 5/11/12

1) Was the chain(s) of custody relinquished and signed? (Yes) No **No CoC Included**

2) Does the chain agree with the samples? (Yes) No

If not, explain:

3) Are all the samples in good condition? (Yes) No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? (Yes) No **N/A**

Temperature °C by Temp blank _____ Temperature °C by Temp gun 4.4°C

5) Are there Dissolved samples for the lab to filter? Yes (No)

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? (Yes) No

Who was notified Mike Date 5/11/12 Time 1820

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No (N/A) _____

9) Do all samples have the proper Base pH: Yes No (N/A) _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	3
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12E0472-01 PH-CK-464

Analyte	Results		%RPD
Aroclor-1254 [2C]	5.0	4.309983	14.8
Surrogates			
Decachlorobiphenyl	2.93	3.003975	2.49
Tetrachloro-m-xylene	3.13	3.201414	2.26

12E0472-02 PH-CK-465

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.97	0.826225	16
Surrogates			
Decachlorobiphenyl	3.77	3.954537	4.78
Tetrachloro-m-xylene	3.38	3.435844	1.64

12E0472-03 PH-CK-466

Analyte	Results		%RPD
Aroclor-1254 [2C]	1100	981.4462	11.4

B051396-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	3.95	3.9968	1.18
Decachlorobiphenyl	3.63	3.98678	9.37

B051396-BS1 LCS

Analyte	Results		%RPD
Aroclor-1260	3.4	3.3991	0.0265
Aroclor-1016	3.6	3.59744	0.0711
Surrogates			
Decachlorobiphenyl	3.65	3.90974	6.87
Tetrachloro-m-xylene	3.93	3.99708	1.69

B051396-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	3.7	3.68872	0.305
Aroclor-1260	3.4	3.31224	2.61
Surrogates			
Tetrachloro-m-xylene	3.99	4.03196	1.05
Decachlorobiphenyl	3.44	3.71518	7.69

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0472
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0472-01 thru 12E0472-03

Matrices: Caulk

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☐ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 05/14/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 16, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0556

Enclosed are results of analyses for samples received by the laboratory on May 14, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/16/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0556

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-470	12E0556-01	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0556

Date Received: 5/14/2012

Field Sample #: PH-VBC-470 | Sampled: 5/10/2012 14:40

Sample ID: 12E0556-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/14/12	5/15/12 20:39	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/14/12	5/15/12 20:39	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/14/12	5/15/12 20:39	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/14/12	5/15/12 20:39	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/14/12	5/15/12 20:39	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/14/12	5/15/12 20:39	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/14/12	5/15/12 20:39	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/14/12	5/15/12 20:39	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/14/12	5/15/12 20:39	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.4	30-150		5/15/12 20:39
Decachlorobiphenyl [2]	99.8	30-150		5/15/12 20:39
Tetrachloro-m-xylene [1]	101	30-150		5/15/12 20:39
Tetrachloro-m-xylene [2]	103	30-150		5/15/12 20:39

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0556-01 [PH-VBC-470]	B051512	2.10	10.0	05/14/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051512 - SW-846 3540C										
Blank (B051512-BLK1)				Prepared: 05/14/12 Analyzed: 05/15/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.20*		mg/Kg	1.00		120	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.24*		mg/Kg	1.00		124	30-150			
LCS (B051512-BS1)				Prepared: 05/14/12 Analyzed: 05/15/12						
Aroclor-1016	0.25	0.10	mg/Kg	0.250		101	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		102	40-140			
Surrogate: Decachlorobiphenyl	*0.952*		mg/Kg	1.00		95.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.997*		mg/Kg	1.00		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS Dup (B051512-BSD1)				Prepared: 05/14/12 Analyzed: 05/15/12						
Aroclor-1016	0.31	0.10	mg/Kg	0.250		126	40-140	22.1	30	
Aroclor-1016 [2C]	0.32	0.10	mg/Kg	0.250		128	40-140	22.1	30	
Aroclor-1260	0.33	0.10	mg/Kg	0.250		131	40-140	22.6	30	
Aroclor-1260 [2C]	0.31	0.10	mg/Kg	0.250		124	40-140	18.9	30	
Surrogate: Decachlorobiphenyl	*1.11*		mg/Kg	1.00		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.25*		mg/Kg	1.00		125	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.28*		mg/Kg	1.00		128	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12E0556

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinaud / Scott Keenan

Project Proposal Provided? (for billing purposes)
✓ yes 2/11/11 proposal date

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
Fax #: jhamel@woodard curran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	I	I	G	EPA 8082/3540C PCBs	# of Containers	** Preservation	***Container Code
01	PH-VBC-470 (*)	5/10/12	1440			C	(U) ACTIVE				Roof #1 - 10-11" from joint			
02	PH-VBC-471	↓	1435			C	(U) HOLD				Roof #1 - 14-15" from joint			

5/14/12 5/14/12 5/14/12

KAN

Comments: ① EPA 8082 via 3540C Soxhlet ② RL ≤ 1mg/kg
③ Roof Mech Rm Door - Verticals ④ (-471 ON HOLD)

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
K Rinaud	5/14/12 1925
Received by: (signature)	Date/Time: 5/14/12 1925
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr (*)
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

Dissolved Metals
○ Field Filtered
○ Lab to Filter

*****Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

****Preservation**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

***Matrix Code:**
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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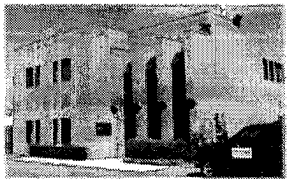

Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** SD **DATE:** 5/14/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☐ S.D Direct from Sampling ☒ Ambient ☒ In Cooler(s) ☒ S.D

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 20.0

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0556
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0556-01

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/16/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

May 17, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Pound Hall - Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0612

Enclosed are results of analyses for samples received by the laboratory on May 15, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/17/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0612

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

PROJECT LOCATION: Pound Hall - Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBCQ-420	12E0612-01	Equipment Blank Water		SW-846 8082A	
PH-VBCQ-440	12E0612-02	Equipment Blank Water		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12E0612

Date Received: 5/15/2012

Field Sample #: PH-VBCQ-420 | Sampled: 5/11/2012 10:25

Sample ID: 12E0612-01

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:40	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:40	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:40	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:40	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:40	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:40	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:40	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:40	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:40	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	68.7	30-150		5/17/12 9:40
Decachlorobiphenyl [2]	70.4	30-150		5/17/12 9:40
Tetrachloro-m-xylene [1]	72.4	30-150		5/17/12 9:40
Tetrachloro-m-xylene [2]	80.2	30-150		5/17/12 9:40

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Project Location: Pound Hall - Cambridge, MA | Sample Description: | Work Order: 12E0612

Date Received: 5/15/2012

Field Sample #: PH-VBCQ-440 | Sampled: 5/11/2012 10:29

Sample ID: 12E0612-02

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:53	MJC
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:53	MJC
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:53	MJC
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:53	MJC
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:53	MJC
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:53	MJC
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:53	MJC
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:53	MJC
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	5/15/12	5/17/12 9:53	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	75.5	30-150		5/17/12 9:53
Decachlorobiphenyl [2]	77.7	30-150		5/17/12 9:53
Tetrachloro-m-xylene [1]	79.7	30-150		5/17/12 9:53
Tetrachloro-m-xylene [2]	88.0	30-150		5/17/12 9:53

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12E0612-01 [PH-VBCQ-420]	B051539	1000	10.0	05/15/12
12E0612-02 [PH-VBCQ-440]	B051539	1000	10.0	05/15/12

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051539 - SW-846 3510C										
Blank (B051539-BLK1)				Prepared: 05/15/12 Analyzed: 05/16/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.21*		µg/L	2.00		60.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.26*		µg/L	2.00		62.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.49*		µg/L	2.00		74.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.66*		µg/L	2.00		82.9	30-150			
LCS (B051539-BS1)				Prepared: 05/15/12 Analyzed: 05/16/12						
Aroclor-1016	0.53	0.20	µg/L	0.500		106	40-140			
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		111	40-140			
Aroclor-1260	0.53	0.20	µg/L	0.500		106	40-140			
Aroclor-1260 [2C]	0.58	0.20	µg/L	0.500		115	40-140			
Surrogate: Decachlorobiphenyl	*1.40*		µg/L	2.00		69.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.44*		µg/L	2.00		72.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.66*		µg/L	2.00		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.87*		µg/L	2.00		93.3	30-150			
LCS Dup (B051539-BSD1)				Prepared: 05/15/12 Analyzed: 05/16/12						
Aroclor-1016	0.54	0.20	µg/L	0.500		108	40-140	2.09	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		113	40-140	1.59	20	
Aroclor-1260	0.54	0.20	µg/L	0.500		108	40-140	1.84	20	
Aroclor-1260 [2C]	0.58	0.20	µg/L	0.500		117	40-140	1.30	20	
Surrogate: Decachlorobiphenyl	*1.37*		µg/L	2.00		68.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.42*		µg/L	2.00		71.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.67*		µg/L	2.00		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.87*		µg/L	2.00		93.5	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

12E0612

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland ME
Telephone:
Project # 223868
Client PO#

Attention: J Hamed, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By:

Project Proposal Provided? (for billing purposes)
☒ yes 2011 1211 proposal date

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax # jhamed@woodardcurran.com
Email: awallace@woodardcurran.com
Format: ☑ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082 / Aqueous	# of Containers	** Preservation	***Container Code
									1	I	G
-01	PH-VBCQ-420	5/11/12	1025			Unk	AQ	✓			
-02	PH-VBCQ-440	↓	1027			Unk	AQ	✓			

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082 by proper aqueous method

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 5/15/12 1425
Received by: (signature) Sean Malfes	Date/Time: 5.15.12 1425
Relinquished by: (signature) Sean Malfes	Date/Time: 5.15.12 1750
Received by: (signature) 5.2°	Date/Time: 5/15/12 1750

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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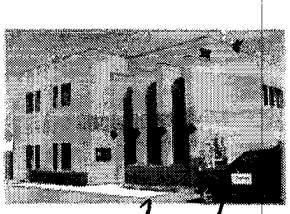

Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** CEC **DATE:** 5/15/12

1) Was the chain(s) of custody relinquished and signed? **Yes** **No** **No CoC Included**

2) Does the chain agree with the samples? **Yes** **No**

If not, explain:

3) Are all the samples in good condition? **Yes** **No**

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? **Yes** **No** **N/A**

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.3°C

5) Are there Dissolved samples for the lab to filter? **Yes** **No**

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? **Yes** **No**

Who was notified _____ Date _____ Time _____

7) Location where samples are stored:

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	2	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12E0612-01 PH-VBCQ-420

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	1.45	1.60328	10
Decachlorobiphenyl	1.37	1.4076	2.71

12E0612-02 PH-VBCQ-440

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	1.59	1.76079	10.2
Decachlorobiphenyl	1.51	1.55453	2.91

B051539-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	1.49	1.65874	10.7
Decachlorobiphenyl	1.21	1.25782	3.88

B051539-BS1 LCS

Analyte	Results		%RPD
Aroclor-1260	0.53	0.5757	8.27
Aroclor-1016	0.53	0.55509	4.62
Surrogates			
Tetrachloro-m-xylene	1.66	1.86644	11.7
Decachlorobiphenyl	1.40	1.44311	3.03

B051539-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1260	0.54	0.58322	7.7
Aroclor-1016	0.54	0.56401	4.35
Surrogates			
Tetrachloro-m-xylene	1.67	1.86969	11.3
Decachlorobiphenyl	1.37	1.42126	3.67

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0612
Project Location: Pound Hall - Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0612-01 thru 12E0612-02

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 05/17/12

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

May 18, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0636

Enclosed are results of analyses for samples received by the laboratory on May 16, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/18/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0636

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CBC-442	12E0636-01	Concrete		SW-846 8082A	
PH-CBC-446	12E0636-02	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12E0636

Date Received: 5/16/2012

Field Sample #: PH-CBC-442
Sampled: 5/3/2012 16:15

Sample ID: 12E0636-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:22	MJC
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:22	MJC
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:22	MJC
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:22	MJC
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:22	MJC
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:22	MJC
Aroclor-1260 [1]	2.9	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:22	MJC
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:22	MJC
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:22	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		5/18/12 11:22
Decachlorobiphenyl [2]	95.5	30-150		5/18/12 11:22
Tetrachloro-m-xylene [1]	90.0	30-150		5/18/12 11:22
Tetrachloro-m-xylene [2]	94.2	30-150		5/18/12 11:22

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0636

Date Received: 5/16/2012

Field Sample #: PH-CBC-446 | Sampled: 5/3/2012 16:35

Sample ID: 12E0636-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	5/16/12	5/18/12 11:35	MJC
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	5/16/12	5/18/12 11:35	MJC
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	5/16/12	5/18/12 11:35	MJC
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	5/16/12	5/18/12 11:35	MJC
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	5/16/12	5/18/12 11:35	MJC
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	5/16/12	5/18/12 11:35	MJC
Aroclor-1260 [2]	5.5	1.0	mg/Kg	10		SW-846 8082A	5/16/12	5/18/12 11:35	MJC
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	5/16/12	5/18/12 11:35	MJC
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	5/16/12	5/18/12 11:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	111	30-150		5/18/12 11:35
Decachlorobiphenyl [2]	106	30-150		5/18/12 11:35
Tetrachloro-m-xylene [1]	96.4	30-150		5/18/12 11:35
Tetrachloro-m-xylene [2]	103	30-150		5/18/12 11:35

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0636-01 [PH-CBC-442]	B051692	2.00	10.0	05/16/12
12E0636-02 [PH-CBC-446]	B051692	2.00	10.0	05/16/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051692 - SW-846 3540C										
Blank (B051692-BLK1)				Prepared: 05/16/12 Analyzed: 05/17/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.915*		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.991*		mg/Kg	1.00		99.1	30-150			
LCS (B051692-BS1)				Prepared: 05/16/12 Analyzed: 05/17/12						
Aroclor-1016	0.29	0.10	mg/Kg	0.250		118	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		119	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		109	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140			
Surrogate: Decachlorobiphenyl	*1.21*		mg/Kg	1.00		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.16*		mg/Kg	1.00		116	30-150			
LCS Dup (B051692-BSD1)				Prepared: 05/16/12 Analyzed: 05/17/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		108	40-140	8.39	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		109	40-140	8.70	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.5	40-140	12.1	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		97.5	40-140	12.0	30	
Surrogate: Decachlorobiphenyl	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.923*		mg/Kg	1.00		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.964*		mg/Kg	1.00		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.995*		mg/Kg	1.00		99.5	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

12E0636

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

~~12E0247~~ MEK

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: Attn: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax # jhamel@woodardcurran.com
Email: awallace@ " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 2011 12 11 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540 Soxhlet	
01	PH-CBL-438	5/3/12	1600					HOLD	Basmt Mech Rm Unpainted
02	PH-CBLD-439		1600					HOLD	
⊗ 03	PH-CBL-442		1615					HOLD	
04	PH-CBL-445		1700					HOLD	
⊗ 05	PH-CBL-446		1635					HOLD	10ft from door "K" (447)
⊗ 06	PH-CBL-447		1645					HOLD	←
⊗ 07	PH-CBL-448		1720					HOLD	
08	PH-CBL-449		1735					HOLD	

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ⊗ All samples on hold pending release by W+C
⊗ Analyze per attached email. MEK 5/7/2012

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
K. Rinard	5/4/12 1115
Received by: (signature)	Date/Time:
[signature]	5/4/12 1115
Relinquished by: (signature)	Date/Time:
[signature]	5/4/12 1717
Received by: (signature)	Date/Time:
Paula Blakeley	5.4.12 1717

Turnaround††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ 48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

NELAC & AIHA Certified
WBE/DBE Certified

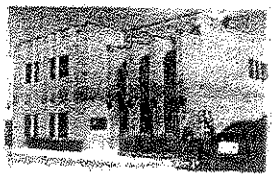
†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

⊗⊗ Activate per attached email. 48 hr TAT. MEK 5/16/12

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test ANALYTICAL LABORATORY



Sample Receipt Checklist

PB

CLIENT NAME: Woodard + Curran RECEIVED BY: [illegible] DATE: 5/4/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.5°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature:

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)		2 oz amber/clear jar	6
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

Doc# 277

Rev. 2 Sept 2011

Meghan Kelley

From: Amy Wallace [awallace@woodardcurran.com]
Sent: Wednesday, May 16, 2012 9:56 AM
To: Kelley Meghan
Cc: Jeff Hamel
Subject: Additional samples to release for analysis

Hi Meghan

We need to have four additional samples analyzed from the group of Pound Hall samples received by the lab on Friday May 4th. These should be 48-hour turn PCB analysis. The sample IDs end with numbers:

-442
-446
-450
-451

Thank you,
Amy

Sent from my iPhone=

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0636
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0636-01 thru 12E0636-02

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes ☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes ☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes ☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes ☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/18/12

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

May 18, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0663

Enclosed are results of analyses for samples received by the laboratory on May 16, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/18/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0663

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-478	12E0663-01	Product/Solid		SW-846 8082A	
PH-VBCD-479	12E0663-02	Product/Solid		SW-846 8082A	
PH-VBC-481	12E0663-03	Product/Solid		SW-846 8082A	
PH-VBC-482	12E0663-04	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0663

Date Received: 5/16/2012

Field Sample #: PH-VBC-478 | Sampled: 5/16/2012 12:00

Sample ID: 12E0663-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:28	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:28	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:28	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:28	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:28	MJC
Aroclor-1254 [2]	0.60	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:28	MJC
Aroclor-1260 [2]	0.64	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:28	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:28	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:28	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.4	30-150		5/17/12 20:28
Decachlorobiphenyl [2]	79.8	30-150		5/17/12 20:28
Tetrachloro-m-xylene [1]	79.2	30-150		5/17/12 20:28
Tetrachloro-m-xylene [2]	80.0	30-150		5/17/12 20:28

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0663

Date Received: 5/16/2012

Field Sample #: PH-VBCD-479 | Sampled: 5/16/2012 12:00

Sample ID: 12E0663-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:41	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:41	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:41	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:41	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:41	MJC
Aroclor-1254 [2]	0.71	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:41	MJC
Aroclor-1260 [1]	0.80	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:41	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:41	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:41	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.1	30-150		5/17/12 20:41
Decachlorobiphenyl [2]	83.0	30-150		5/17/12 20:41
Tetrachloro-m-xylene [1]	84.9	30-150		5/17/12 20:41
Tetrachloro-m-xylene [2]	85.7	30-150		5/17/12 20:41

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0663

Date Received: 5/16/2012

Field Sample #: PH-VBC-481 | Sampled: 5/16/2012 14:00

Sample ID: 12E0663-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:54	MJC
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:54	MJC
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:54	MJC
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:54	MJC
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:54	MJC
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:54	MJC
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:54	MJC
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:54	MJC
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/16/12	5/17/12 20:54	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.4	30-150		5/17/12 20:54
Decachlorobiphenyl [2]	82.2	30-150		5/17/12 20:54
Tetrachloro-m-xylene [1]	81.4	30-150		5/17/12 20:54
Tetrachloro-m-xylene [2]	82.3	30-150		5/17/12 20:54

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0663

Date Received: 5/16/2012

Field Sample #: PH-VBC-482 | Sampled: 5/16/2012 14:20

Sample ID: 12E0663-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:49	MJC
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:49	MJC
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:49	MJC
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:49	MJC
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:49	MJC
Aroclor-1254 [2]	1.3	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:49	MJC
Aroclor-1260 [2]	1.4	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:49	MJC
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:49	MJC
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	5/16/12	5/18/12 11:49	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.9	30-150		5/18/12 11:49
Decachlorobiphenyl [2]	85.2	30-150		5/18/12 11:49
Tetrachloro-m-xylene [1]	81.4	30-150		5/18/12 11:49
Tetrachloro-m-xylene [2]	84.1	30-150		5/18/12 11:49

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0663-01 [PH-VBC-478]	B051692	2.00	10.0	05/16/12
12E0663-02 [PH-VBCD-479]	B051692	2.00	10.0	05/16/12
12E0663-03 [PH-VBC-481]	B051692	2.00	10.0	05/16/12
12E0663-04 [PH-VBC-482]	B051692	2.00	10.0	05/16/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051692 - SW-846 3540C										
Blank (B051692-BLK1)				Prepared: 05/16/12 Analyzed: 05/17/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.915*		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.991*		mg/Kg	1.00		99.1	30-150			
LCS (B051692-BS1)				Prepared: 05/16/12 Analyzed: 05/17/12						
Aroclor-1016	0.29	0.10	mg/Kg	0.250		118	40-140			
Aroclor-1016 [2C]	0.30	0.10	mg/Kg	0.250		119	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		109	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140			
Surrogate: Decachlorobiphenyl	*1.21*		mg/Kg	1.00		121	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.16*		mg/Kg	1.00		116	30-150			
LCS Dup (B051692-BSD1)				Prepared: 05/16/12 Analyzed: 05/17/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		108	40-140	8.39	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		109	40-140	8.70	30	
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.5	40-140	12.1	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		97.5	40-140	12.0	30	
Surrogate: Decachlorobiphenyl	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.923*		mg/Kg	1.00		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.964*		mg/Kg	1.00		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.995*		mg/Kg	1.00		99.5	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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CHAIN OF CUSTODY RECORD

12E0663

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A. Wallace
Project Location: Harv. Univ. Pound Hall
Sampled By: K Rinaud / A. Wallace

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
O FAX ✓ EMAIL O WEBSITE
~~Fax~~ # jhamel@woodardcurran.com
Email: awallace " " " " "
Format: ✓ PDF ✓ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code	EPA 8082/3540C	
01	PH-VBC-478		1200					1	I	G	✓	CMU CORE
02	PH-VBCD-479		1200					1	I	G	✓	CMU CORE
	~~PH-VBC-480 KAR 5/16/12~~											
03	PH-VBC-481		1400					1	I	G	✓	CONCRETE
04	PH-VBC-482		1420					1	I	G	✓	CMU CORE

5/16/12 KAR 5/16/12 KAR 5/16/12 KAR

Comments: (1) Bsmt Core samples (2) RL ≤ 1mg/kg

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature) KAR	Date/Time: 5/16/12 1610
Received by: (signature) Steph Maffa	Date/Time: 5.16.12 1610
Relinquished by: (signature) Steph Maffa	Date/Time: 5.16.12 1845
Received by: (signature) Vincent Grugo	Date/Time: 5/16/12 1845

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ 48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** VF **DATE:** 5/16/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.9°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date 5/16/12 Time 1845

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0663
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0663-01 thru 12E0663-04

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/18/12

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May 21, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0712

Enclosed are results of analyses for samples received by the laboratory on May 17, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/21/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0712

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

PROJECT LOCATION: Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CWC-472	12E0712-01	Wipe		SW-846 8082A	
PH-CWC-473	12E0712-02	Wipe		SW-846 8082A	
PH-CWC-474	12E0712-03	Wipe		SW-846 8082A	
PH-CWC-475	12E0712-04	Wipe		SW-846 8082A	
PH-CWC-485	12E0712-05	Wipe		SW-846 8082A	
PH-CWC-486	12E0712-06	Wipe		SW-846 8082A	
PH-CWC-487	12E0712-07	Wipe		SW-846 8082A	
PH-CWC-488	12E0712-08	Wipe		SW-846 8082A	
PH-CBC-491	12E0712-09	Concrete		SW-846 8082A	
PH-VBC-483	12E0712-10	Concrete		SW-846 8082A	
PH-VBC-484	12E0712-11	Concrete		SW-846 8082A	
PH-VBC-489	12E0712-12	Concrete		SW-846 8082A	
PH-VBC-490	12E0712-13	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1016, Aroclor-1016 [2C], Aroclor-1260, Aroclor-1260 [2C]

12E0712-01[PH-CWC-472], 12E0712-02[PH-CWC-473], 12E0712-03[PH-CWC-474], 12E0712-04[PH-CWC-475], 12E0712-05[PH-CWC-485], 12E0712-06[PH-CWC-486], 12E0712-07[PH-CWC-487], 12E0712-08[PH-CWC-488], B051771-BLK1, B051771-BS1, B051771-BSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-CWC-472
Sampled: 5/17/2012 12:02

Sample ID: 12E0712-01

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 17:38	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:38	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:38	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:38	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:38	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:38	JMB
Aroclor-1260 [1]	0.54	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 17:38	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:38	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	111	30-150		5/18/12 17:38
Decachlorobiphenyl [2]	102	30-150		5/18/12 17:38
Tetrachloro-m-xylene [1]	115	30-150		5/18/12 17:38
Tetrachloro-m-xylene [2]	141	30-150		5/18/12 17:38

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-CWC-473
Sampled: 5/17/2012 11:56

Sample ID: 12E0712-02

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 17:51	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:51	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:51	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:51	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:51	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:51	JMB
Aroclor-1260 [1]	0.37	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 17:51	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:51	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 17:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		5/18/12 17:51
Decachlorobiphenyl [2]	93.3	30-150		5/18/12 17:51
Tetrachloro-m-xylene [1]	107	30-150		5/18/12 17:51
Tetrachloro-m-xylene [2]	129	30-150		5/18/12 17:51

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-CWC-474
Sampled: 5/17/2012 11:02

Sample ID: 12E0712-03

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:03	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:03	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:03	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:03	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:03	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:03	JMB
Aroclor-1260 [1]	0.31	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:03	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:03	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.4	30-150		5/18/12 18:03
Decachlorobiphenyl [2]	86.8	30-150		5/18/12 18:03
Tetrachloro-m-xylene [1]	99.1	30-150		5/18/12 18:03
Tetrachloro-m-xylene [2]	120	30-150		5/18/12 18:03

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-CWC-475
Sampled: 5/17/2012 10:56

Sample ID: 12E0712-04

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:15	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:15	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:15	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:15	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:15	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:15	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:15	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:15	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.8	30-150		5/18/12 18:15
Decachlorobiphenyl [2]	90.5	30-150		5/18/12 18:15
Tetrachloro-m-xylene [1]	101	30-150		5/18/12 18:15
Tetrachloro-m-xylene [2]	122	30-150		5/18/12 18:15

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-CWC-485 | Sampled: 5/17/2012 12:01

Sample ID: 12E0712-05

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	73.6	30-150		5/18/12 18:28
Decachlorobiphenyl [2]	66.1	30-150		5/18/12 18:28
Tetrachloro-m-xylene [1]	78.7	30-150		5/18/12 18:28
Tetrachloro-m-xylene [2]	95.5	30-150		5/18/12 18:28

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-CWC-486 | Sampled: 5/17/2012 11:55

Sample ID: 12E0712-06

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:40	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:40	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:40	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:40	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:40	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:40	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:40	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:40	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	90.1	30-150		5/18/12 18:40
Decachlorobiphenyl [2]	80.8	30-150		5/18/12 18:40
Tetrachloro-m-xylene [1]	94.9	30-150		5/18/12 18:40
Tetrachloro-m-xylene [2]	115	30-150		5/18/12 18:40

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-CWC-487
Sampled: 5/17/2012 11:01

Sample ID: 12E0712-07

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:53	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:53	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:53	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:53	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:53	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:53	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 18:53	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:53	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 18:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.7	30-150		5/18/12 18:53
Decachlorobiphenyl [2]	79.5	30-150		5/18/12 18:53
Tetrachloro-m-xylene [1]	91.0	30-150		5/18/12 18:53
Tetrachloro-m-xylene [2]	110	30-150		5/18/12 18:53

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-CWC-488
Sampled: 5/17/2012 10:55

Sample ID: 12E0712-08

Sample Matrix: Wipe

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 19:05	JMB
Aroclor-1221 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 19:05	JMB
Aroclor-1232 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 19:05	JMB
Aroclor-1242 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 19:05	JMB
Aroclor-1248 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 19:05	JMB
Aroclor-1254 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 19:05	JMB
Aroclor-1260 [1]	ND	0.20	µg/Wipe	1	R-05	SW-846 8082A	5/17/12	5/18/12 19:05	JMB
Aroclor-1262 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 19:05	JMB
Aroclor-1268 [1]	ND	0.20	µg/Wipe	1		SW-846 8082A	5/17/12	5/18/12 19:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.7	30-150		5/18/12 19:05
Decachlorobiphenyl [2]	73.4	30-150		5/18/12 19:05
Tetrachloro-m-xylene [1]	86.8	30-150		5/18/12 19:05
Tetrachloro-m-xylene [2]	105	30-150		5/18/12 19:05

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-CBC-491
Sampled: 5/17/2012 11:20

Sample ID: 12E0712-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:20	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:20	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:20	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:20	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:20	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:20	JMB
Aroclor-1260 [2]	0.99	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:20	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:20	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		5/19/12 12:20
Decachlorobiphenyl [2]	117	30-150		5/19/12 12:20
Tetrachloro-m-xylene [1]	94.6	30-150		5/19/12 12:20
Tetrachloro-m-xylene [2]	101	30-150		5/19/12 12:20

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-VBC-483
Sampled: 5/16/2012 17:10

Sample ID: 12E0712-10

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:33	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:33	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:33	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:33	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:33	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:33	JMB
Aroclor-1260 [2]	0.33	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:33	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:33	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	108	30-150		5/19/12 12:33
Decachlorobiphenyl [2]	118	30-150		5/19/12 12:33
Tetrachloro-m-xylene [1]	102	30-150		5/19/12 12:33
Tetrachloro-m-xylene [2]	109	30-150		5/19/12 12:33

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-VBC-484 | Sampled: 5/16/2012 14:50

Sample ID: 12E0712-11

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:46	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:46	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:46	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:46	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:46	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:46	JMB
Aroclor-1260 [2]	0.20	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:46	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:46	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	100	30-150		5/19/12 12:46
Decachlorobiphenyl [2]	108	30-150		5/19/12 12:46
Tetrachloro-m-xylene [1]	96.6	30-150		5/19/12 12:46
Tetrachloro-m-xylene [2]	104	30-150		5/19/12 12:46

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-VBC-489 | Sampled: 5/17/2012 08:00

Sample ID: 12E0712-12

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:59	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:59	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:59	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:59	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:59	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:59	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:59	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:59	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 12:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.7	30-150		5/19/12 12:59
Decachlorobiphenyl [2]	106	30-150		5/19/12 12:59
Tetrachloro-m-xylene [1]	92.7	30-150		5/19/12 12:59
Tetrachloro-m-xylene [2]	99.4	30-150		5/19/12 12:59

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0712

Date Received: 5/17/2012

Field Sample #: PH-VBC-490 | Sampled: 5/17/2012 08:25

Sample ID: 12E0712-13

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 13:12	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 13:12	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 13:12	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 13:12	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 13:12	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 13:12	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 13:12	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 13:12	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/18/12	5/19/12 13:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		5/19/12 13:12
Decachlorobiphenyl [2]	110	30-150		5/19/12 13:12
Tetrachloro-m-xylene [1]	99.0	30-150		5/19/12 13:12
Tetrachloro-m-xylene [2]	106	30-150		5/19/12 13:12

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0712-09RE1 [PH-CBC-491]	B051857	2.10	10.0	05/18/12
12E0712-10RE1 [PH-VBC-483]	B051857	2.30	10.0	05/18/12
12E0712-11RE1 [PH-VBC-484]	B051857	2.30	10.0	05/18/12
12E0712-12RE1 [PH-VBC-489]	B051857	2.30	10.0	05/18/12
12E0712-13RE1 [PH-VBC-490]	B051857	2.10	10.0	05/18/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [Wipe]	Final [mL]	Date
12E0712-01 [PH-CWC-472]	B051771	1.00	10.0	05/17/12
12E0712-02 [PH-CWC-473]	B051771	1.00	10.0	05/17/12
12E0712-03 [PH-CWC-474]	B051771	1.00	10.0	05/17/12
12E0712-04 [PH-CWC-475]	B051771	1.00	10.0	05/17/12
12E0712-05 [PH-CWC-485]	B051771	1.00	10.0	05/17/12
12E0712-06 [PH-CWC-486]	B051771	1.00	10.0	05/17/12
12E0712-07 [PH-CWC-487]	B051771	1.00	10.0	05/17/12
12E0712-08 [PH-CWC-488]	B051771	1.00	10.0	05/17/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B051771 - SW-846 3540C											
Blank (B051771-BLK1)				Prepared: 05/17/12 Analyzed: 05/18/12							
Aroclor-1016	ND	0.20	µg/Wipe								R-05
Aroclor-1016 [2C]	ND	0.20	µg/Wipe								R-05
Aroclor-1221	ND	0.20	µg/Wipe								
Aroclor-1221 [2C]	ND	0.20	µg/Wipe								
Aroclor-1232	ND	0.20	µg/Wipe								
Aroclor-1232 [2C]	ND	0.20	µg/Wipe								
Aroclor-1242	ND	0.20	µg/Wipe								
Aroclor-1242 [2C]	ND	0.20	µg/Wipe								
Aroclor-1248	ND	0.20	µg/Wipe								
Aroclor-1248 [2C]	ND	0.20	µg/Wipe								
Aroclor-1254	ND	0.20	µg/Wipe								
Aroclor-1254 [2C]	ND	0.20	µg/Wipe								
Aroclor-1260	ND	0.20	µg/Wipe								R-05
Aroclor-1260 [2C]	ND	0.20	µg/Wipe								R-05
Aroclor-1262	ND	0.20	µg/Wipe								
Aroclor-1262 [2C]	ND	0.20	µg/Wipe								
Aroclor-1268	ND	0.20	µg/Wipe								
Aroclor-1268 [2C]	ND	0.20	µg/Wipe								
Surrogate: Decachlorobiphenyl	*2.11*		µg/Wipe	2.00		106	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.90*		µg/Wipe	2.00		95.1	30-150				
Surrogate: Tetrachloro-m-xylene	*2.12*		µg/Wipe	2.00		106	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*2.60*		µg/Wipe	2.00		130	30-150				
LCS (B051771-BS1)				Prepared: 05/17/12 Analyzed: 05/18/12							
Aroclor-1016	0.32	0.20	µg/Wipe	0.500		63.4	40-140				R-05
Aroclor-1016 [2C]	0.45	0.20	µg/Wipe	0.500		89.0	40-140				R-05
Aroclor-1260	0.36	0.20	µg/Wipe	0.500		71.1	40-140				R-05
Aroclor-1260 [2C]	0.35	0.20	µg/Wipe	0.500		71.0	40-140				R-05
Surrogate: Decachlorobiphenyl	*1.30*		µg/Wipe	2.00		65.2	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.17*		µg/Wipe	2.00		58.3	30-150				
Surrogate: Tetrachloro-m-xylene	*1.35*		µg/Wipe	2.00		67.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.66*		µg/Wipe	2.00		82.9	30-150				
LCS Dup (B051771-BSD1)				Prepared: 05/17/12 Analyzed: 05/18/12							
Aroclor-1016	0.51	0.20	µg/Wipe	0.500		102	40-140	**46.5**	*	30	R-05
Aroclor-1016 [2C]	0.65	0.20	µg/Wipe	0.500		130	40-140	**37.1**	*	30	R-05
Aroclor-1260	0.53	0.20	µg/Wipe	0.500		107	40-140	**40.2**	*	30	R-05
Aroclor-1260 [2C]	0.52	0.20	µg/Wipe	0.500		103	40-140	**37.2**	*	30	R-05
Surrogate: Decachlorobiphenyl	*2.06*		µg/Wipe	2.00		103	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.84*		µg/Wipe	2.00		92.1	30-150				
Surrogate: Tetrachloro-m-xylene	*2.13*		µg/Wipe	2.00		107	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*2.60*		µg/Wipe	2.00		130	30-150				

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051857 - SW-846 3540C										
Blank (B051857-BLK1)				Prepared: 05/18/12 Analyzed: 05/19/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.09*		mg/Kg	1.00		109	30-150			
LCS (B051857-BS1)				Prepared: 05/18/12 Analyzed: 05/19/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		103	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		104	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.3	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140			
Surrogate: Decachlorobiphenyl	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.954*		mg/Kg	1.00		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			
LCS Dup (B051857-BSD1)				Prepared: 05/18/12 Analyzed: 05/19/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		107	40-140	3.77	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140	3.80	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250		91.5	40-140	5.10	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140	4.79	30	
Surrogate: Decachlorobiphenyl	*0.837*		mg/Kg	1.00		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.896*		mg/Kg	1.00		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.15*		mg/Kg	1.00		115	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12E0712

Company Name: Woodard & Curran
Address: 41 Hutchins Dr
Portland ME 04102
Attention: Amy Wallace
Project Location: Cambridge MA
Sampled By: Amy Wallace

Telephone: 207-774-2112
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: awallace@woodardcurran
Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☒ yes 20111211 proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCB 3540C/8082	PCB 3540C/8082	PCB 3540C/8082
								1	1	1
								hexane	saline	I
								G	G	G
01	PH-CWC-472	5/17/12	12:02			wipe		X		
02	PH-CWC-473	↓	11:56			wipe		X		
03	PH-CWC-474		11:02			wipe		X		
04	PH-CWC-475		10:56			wipe		X		
05	PH-CWC-485		12:01			wipe			X	
06	PH-CWC-486		11:55			wipe			X	
07	PH-CWC-487		11:01			wipe			X	
08	PH-CWC-488		10:55			wipe			X	
09	PH-CBC-491	↓	11:20			concrete				X
—	~~PH-CBC-491~~ (AW)									

ANALYSIS REQUESTED

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Amy Wallace	5/17/12 1245
Received by: (signature) Stephen Malfas	Date/Time: 5·17·12 1245
Relinquished by: (signature) Stephen Malfas	Date/Time: 5·17·12 1625
Received by: (signature) C. Clough-Slegall 8:82	Date/Time: 5/17/12 16:25

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

CHAIN OF CUSTODY RECORD

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

Page____of____

Company Name: Woodard & Curran
Address: 41 Hutchins Dr
Portland ME 04103
Attention: Amy Wallace
Project Location: Cambridge, MA
Sampled By: Amy Wallace

Telephone: 207-774-2112
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: awallace@woodardcurran.com
Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☒ yes 2011-12-11 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCB Soxhlet/8082										
								I										# of Containers
								I										** Preservation
								G										***Container Cod
10	PH-VBC-483	5/16/12	17:10			conc.	L	X										
11	PH-VBC-484	5/16/12	14:50			conc.	L	X										
12	PH-VBC-489	5/17/12	8:00			conc	L	X										
13	PH-VBC-490	5/17/12	8:25			conc	L	X										

Dissolved Metal
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
RL ≤1.0mg/kg

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Amy Wallace	5/17/12 9:50
Received by: (signature) Steph Malfa	Date/Time: 5-17-12 1000
Relinquished by: (signature) Steph Malfa	Date/Time: 5-17-12 1625
Received by: (signature) C. Clough-Segall 8.8°C	Date/Time: 5/17/12 16:25

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

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†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran RECEIVED BY: C.C.S DATE: 5/17/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 8.8°C (5.0)

5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	11
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12E0712-01 PH-CWC-472

Analyte	Results		%RPD
Aroclor-1260	0.54	0.45881	16.3
Surrogates			
Decachlorobiphenyl	2.22	2.03302	8.79
Tetrachloro-m-xylene	2.30	2.81438	20.1

12E0712-02 PH-CWC-473

Analyte	Results		%RPD
Aroclor-1260	0.37	0.30909	17.9
Surrogates			
Decachlorobiphenyl	2.02	1.86642	7.9
Tetrachloro-m-xylene	2.13	2.58424	19.3

12E0712-03 PH-CWC-474

Analyte	Results		%RPD
Aroclor-1260	0.31	0.2797	10.3
Surrogates			
Decachlorobiphenyl	1.89	1.73656	8.46
Tetrachloro-m-xylene	1.98	2.40951	19.6

12E0712-04 PH-CWC-475

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.98	1.81079	8.93
Tetrachloro-m-xylene	2.01	2.44228	19.4

12E0712-05 PH-CWC-485

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.47	1.32238	10.6
Tetrachloro-m-xylene	1.57	1.91097	19.6

12E0712-06 PH-CWC-486

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	1.90	2.30987	19.5
Decachlorobiphenyl	1.80	1.61632	10.8

12E0712-07 PH-CWC-487

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	1.82	2.20573	19.2
Decachlorobiphenyl	1.77	1.58979	10.7

12E0712-08 PH-CWC-488

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.63	1.46862	10.4
Tetrachloro-m-xylene	1.74	2.10031	18.8

12E0712-09RE1 PH-CBC-491

Analyte	Results		%RPD
Aroclor-1260 [2C]	0.99	0.8657286	13.4
Surrogates			
Decachlorobiphenyl	1.02	1.113919	8.8
Tetrachloro-m-xylene	0.901	0.959781	6.32

12E0712-10RE1 PH-VBC-483

Analyte	Results		%RPD
Aroclor-1260 [2C]	0.33	0.2887	13.4
Surrogates			

Decachlorobiphenyl	0.939	1.023022	8.56
Tetrachloro-m-xylene	0.887	0.9458305	6.42

12E0712-11RE1 PH-VBC-484

Analyte		Results	%RPD
Aroclor-1260 [2C]	0.20	0.1763739	12.6
Surrogates			
Decachlorobiphenyl	0.872	0.9423043	7.75
Tetrachloro-m-xylene	0.840	0.9035087	7.29

12E0712-12RE1 PH-VBC-489

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	0.858	0.9260696	7.63
Tetrachloro-m-xylene	0.806	0.8639348	6.94

12E0712-13RE1 PH-VBC-490

Analyte		Results	%RPD
Surrogates			
Tetrachloro-m-xylene	0.943	1.011905	7.05
Decachlorobiphenyl	0.967	1.046548	7.9

12E0717-01 MR-VBB-114

Analyte		Results	%RPD
Aroclor-1254 [2C]	3.1	3.085275	0.476
Surrogates			
Decachlorobiphenyl	1.10	1.113525	1.22
Tetrachloro-m-xylene	1.08	1.13825	5.25

B051771-BLK1 Blank

Analyte		Results	%RPD
Surrogates			
Decachlorobiphenyl	2.11	1.9025	10.3
Tetrachloro-m-xylene	2.12	2.59814	20.3

B051771-BS1 LCS

Analyte		Results	%RPD
Aroclor-1260	0.36	0.35499	1.4
Aroclor-1016	0.32	0.44514	32.7
Surrogates			
Decachlorobiphenyl	1.30	1.16677	10.8
Tetrachloro-m-xylene	1.35	1.65807	20.5

B051771-BSD1 LCS Dup

Analyte		Results	%RPD
Aroclor-1260	0.53	0.51696	2.49
Aroclor-1016	0.51	0.64808	23.8
Surrogates			
Decachlorobiphenyl	2.06	1.84217	11.2
Tetrachloro-m-xylene	2.13	2.60089	19.9

B051857-BLK1 Blank

Analyte		Results	%RPD
Surrogates			
Tetrachloro-m-xylene	1.02	1.09335	6.94
Decachlorobiphenyl	1.04	1.11669	7.11

B051857-BS1 LCS

Analyte		Results	%RPD
Aroclor-1016	0.26	0.25893	0.412
Aroclor-1260	0.24	0.27063	12
Surrogates			
Tetrachloro-m-xylene	0.954	1.029895	7.65
Decachlorobiphenyl	0.943	1.01046	6.91

B051857-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.27	0.26896	0.386
Aroclor-1260	0.23	0.25797	11.5
Surrogates			
Decachlorobiphenyl	0.837	0.89616	6.83
Tetrachloro-m-xylene	1.06	1.146555	7.85

B051857-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.70	0.6869286	1.88
Aroclor-1260	1.1	1.320348	18.2
Surrogates			
Decachlorobiphenyl	0.990	1.0702	7.79
Tetrachloro-m-xylene	0.918	0.9825667	6.79

B051857-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	1.2	1.181755	1.53
Aroclor-1260	1.9	2.22684	15.8
Surrogates			
Tetrachloro-m-xylene	0.884	0.94742	6.93
Decachlorobiphenyl	1.00	1.08194	7.87

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0712
Project Location: Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0712-01 thru 12E0712-13

Matrices: Product/Solid Wipe

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 05/21/12

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

May 23, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0785

Enclosed are results of analyses for samples received by the laboratory on May 21, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/23/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0785

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

PROJECT LOCATION: Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-492	12E0785-01	Concrete		SW-846 8082A	
PH-VBC-493	12E0785-02	Concrete		SW-846 8082A	
PH-VBC-494	12E0785-03	Concrete		SW-846 8082A	
PH-VBC-495	12E0785-04	Concrete		SW-846 8082A	
PH-VBC-496	12E0785-05	Concrete		SW-846 8082A	
PH-VBC-497	12E0785-06	Concrete		SW-846 8082A	
PH-VBC-498	12E0785-07	Concrete		SW-846 8082A	
PH-VBCD-499	12E0785-08	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0785

Date Received: 5/21/2012

Field Sample #: PH-VBC-492 | Sampled: 5/19/2012 12:30

Sample ID: 12E0785-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:45	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:45	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:45	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:45	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:45	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:45	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:45	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:45	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.3	30-150		5/22/12 19:45
Decachlorobiphenyl [2]	80.3	30-150		5/22/12 19:45
Tetrachloro-m-xylene [1]	75.7	30-150		5/22/12 19:45
Tetrachloro-m-xylene [2]	75.8	30-150		5/22/12 19:45

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

Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0785

Date Received: 5/21/2012

Field Sample #: PH-VBC-493
Sampled: 5/19/2012 12:50

Sample ID: 12E0785-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:57	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:57	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:57	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:57	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:57	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:57	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:57	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:57	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 19:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.8	30-150		5/22/12 19:57
Decachlorobiphenyl [2]	81.8	30-150		5/22/12 19:57
Tetrachloro-m-xylene [1]	78.0	30-150		5/22/12 19:57
Tetrachloro-m-xylene [2]	77.9	30-150		5/22/12 19:57

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0785

Date Received: 5/21/2012

Field Sample #: PH-VBC-494 | Sampled: 5/19/2012 13:30

Sample ID: 12E0785-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:10	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:10	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:10	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:10	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:10	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:10	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:10	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:10	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		5/22/12 20:10
Decachlorobiphenyl [2]	89.7	30-150		5/22/12 20:10
Tetrachloro-m-xylene [1]	87.9	30-150		5/22/12 20:10
Tetrachloro-m-xylene [2]	88.3	30-150		5/22/12 20:10

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0785

Date Received: 5/21/2012

Field Sample #: PH-VBC-495 | Sampled: 5/19/2012 13:50

Sample ID: 12E0785-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:23	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:23	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:23	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:23	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:23	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:23	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:23	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:23	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:23	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.3	30-150		5/22/12 20:23
Decachlorobiphenyl [2]	82.2	30-150		5/22/12 20:23
Tetrachloro-m-xylene [1]	82.9	30-150		5/22/12 20:23
Tetrachloro-m-xylene [2]	83.0	30-150		5/22/12 20:23

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0785

Date Received: 5/21/2012

Field Sample #: PH-VBC-496 | Sampled: 5/21/2012 09:40

Sample ID: 12E0785-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:36	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:36	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:36	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:36	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:36	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:36	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:36	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:36	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:36	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.9	30-150		5/22/12 20:36
Decachlorobiphenyl [2]	81.3	30-150		5/22/12 20:36
Tetrachloro-m-xylene [1]	80.7	30-150		5/22/12 20:36
Tetrachloro-m-xylene [2]	81.0	30-150		5/22/12 20:36

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0785

Date Received: 5/21/2012

Field Sample #: PH-VBC-497 | Sampled: 5/21/2012 10:20

Sample ID: 12E0785-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:49	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:49	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:49	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:49	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:49	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:49	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:49	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:49	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 20:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.9	30-150		5/22/12 20:49
Decachlorobiphenyl [2]	82.7	30-150		5/22/12 20:49
Tetrachloro-m-xylene [1]	82.7	30-150		5/22/12 20:49
Tetrachloro-m-xylene [2]	82.8	30-150		5/22/12 20:49

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12E0785

Date Received: 5/21/2012

Field Sample #: PH-VBC-498
Sampled: 5/21/2012 10:35

Sample ID: 12E0785-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:02	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:02	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:02	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:02	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:02	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:02	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:02	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:02	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.1	30-150		5/22/12 21:02
Decachlorobiphenyl [2]	80.0	30-150		5/22/12 21:02
Tetrachloro-m-xylene [1]	82.4	30-150		5/22/12 21:02
Tetrachloro-m-xylene [2]	82.4	30-150		5/22/12 21:02

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12E0785

Date Received: 5/21/2012

Field Sample #: PH-VBCD-499 | Sampled: 5/21/2012 10:35

Sample ID: 12E0785-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:15	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:15	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:15	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:15	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:15	JMB
Aroclor-1254 [2]	0.098	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:15	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:15	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:15	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/21/12	5/22/12 21:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.1	30-150		5/22/12 21:15
Decachlorobiphenyl [2]	81.5	30-150		5/22/12 21:15
Tetrachloro-m-xylene [1]	83.4	30-150		5/22/12 21:15
Tetrachloro-m-xylene [2]	83.6	30-150		5/22/12 21:15

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0785-01 [PH-VBC-492]	B051962	2.10	10.0	05/21/12
12E0785-02 [PH-VBC-493]	B051962	2.00	10.0	05/21/12
12E0785-03 [PH-VBC-494]	B051962	2.10	10.0	05/21/12
12E0785-04 [PH-VBC-495]	B051962	2.10	10.0	05/21/12
12E0785-05 [PH-VBC-496]	B051962	2.20	10.0	05/21/12
12E0785-06 [PH-VBC-497]	B051962	2.10	10.0	05/21/12
12E0785-07 [PH-VBC-498]	B051962	2.00	10.0	05/21/12
12E0785-08 [PH-VBCD-499]	B051962	2.20	10.0	05/21/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B051962 - SW-846 3540C										
Blank (B051962-BLK1)				Prepared: 05/21/12 Analyzed: 05/23/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.969*		mg/Kg	1.00		96.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.993*		mg/Kg	1.00		99.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	1.00		102	30-150			
LCS (B051962-BS1)				Prepared: 05/21/12 Analyzed: 05/22/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		107	40-140			
Aroclor-1260	0.31	0.10	mg/Kg	0.250		124	40-140			
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250		121	40-140			
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			
LCS Dup (B051962-BSD1)				Prepared: 05/21/12 Analyzed: 05/22/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		105	40-140	0.540	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		107	40-140	0.00187	30	
Aroclor-1260	0.30	0.10	mg/Kg	0.250		121	40-140	3.05	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		117	40-140	3.16	30	
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

12E0785

39 Spruce Street
East longmeadow, MA 01028

Company Name: Kim Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harv Univ Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓ EMAIL ○ WEBSITE
~~Fax~~ # jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ✓ PDF ✓ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C										
-01	PH-VBC-492	5/19/12	1230					✓		D	elev	1st	Flr					
-02	PH-VBC-493	↓	1250					✓		D	elev	1st	Flr					
-03	PH-VBC-494	↓	1330					✓		E	Elev	2nd	Sill					
-04	PH-VBC-495	5/19/12	1350					✓		F	Elev	2nd	Sill					
-05	PH-VBC-496	5/21/12	0940					✓		E	Elev	1st	flr					
-06	PH-VBC-497	↓	1020					✓										
-07	PH-VBC-498	↓	1035					✓										
-08	PH-VBCD-499	5/21/12	1035					✓										

# of Containers: 1
** Preservation: I
***Container Code: G

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: ① EPA 8082 PCB's via Soxhlet 3540C ② RL ≤ 1mg/kg ③ 48 Hr TAT ④ Lab does not need to include descriptions

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [signature] (K Rinard)	Date/Time: 5/21/12 1315
Received by: (signature) [signature]	Date/Time: 5/21/12 1315
Relinquished by: (signature) [signature]	Date/Time: 5/21/12 42°
Received by: (signature) [signature] 5.6°	Date/Time: 5/21/12 1621

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** CEC **DATE:** 5/21/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.6°

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	8
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12E0770-41 051912UA-40

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.764	0.7655477	0.202
Decachlorobiphenyl	0.894	0.7727334	14.6

12E0785-01 PH-VBC-492

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.888	0.7650048	14.9
Tetrachloro-m-xylene	0.721	0.721681	0.0944

12E0785-02 PH-VBC-493

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.938	0.817595	13.7
Tetrachloro-m-xylene	0.780	0.779005	0.128

12E0785-03 PH-VBC-494

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.987	0.8545857	14.4
Tetrachloro-m-xylene	0.838	0.8410524	0.364

12E0785-04 PH-VBC-495

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.889	0.7831857	12.7
Tetrachloro-m-xylene	0.790	0.7908619	0.109

12E0785-05 PH-VBC-496

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.733	0.7363727	0.459
Decachlorobiphenyl	0.854	0.7390136	14.4

12E0785-06 PH-VBC-497

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.903	0.7874191	13.7
Tetrachloro-m-xylene	0.787	0.7882715	0.161

12E0785-07 PH-VBC-498

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.921	0.799615	14.1
Tetrachloro-m-xylene	0.824	0.82449	0.0594

12E0785-08 PH-VBCD-499

Analyte	Results		%RPD
Aroclor-1254 [2C]	0.098	8.584091E-02	13.2
Surrogates			
Tetrachloro-m-xylene	0.758	0.7603273	0.307
Decachlorobiphenyl	0.856	0.7412227	14.4

B051962-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.16	0.969055	17.9
Tetrachloro-m-xylene	0.993	1.017315	2.42

B051962-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.26	0.267565	2.87
Aroclor-1260	0.31	0.301365	2.82
Surrogates			
Decachlorobiphenyl	1.17	1.00157	15.5
Tetrachloro-m-xylene	1.05	1.070945	1.98

B051962-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1260	0.30	0.29199	2.71
Aroclor-1016	0.26	0.26756	2.87
Surrogates			
Decachlorobiphenyl	1.17	1.00075	15.6
Tetrachloro-m-xylene	1.02	1.04521	2.44

B051962-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.29	0.2915714	0.54
Aroclor-1260	0.28	0.2714476	3.1
Surrogates			
Decachlorobiphenyl	1.13	0.9664763	15.6
Tetrachloro-m-xylene	1.04	1.058424	1.76

B051962-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.30	0.2978	0.736
Aroclor-1260	0.27	0.2618048	3.08
Surrogates			
Tetrachloro-m-xylene	0.925	0.9355429	1.13
Decachlorobiphenyl	1.07	0.9041238	16.8

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0785
Project Location: Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0785-01 thru 12E0785-08

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 05/23/12

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

May 24, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0862

Enclosed are results of analyses for samples received by the laboratory on May 22, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/24/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0862

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CBK-501	12E0862-01	Caulk		SW-846 8082A	
PH-VBC-502	12E0862-02	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl, Decachlorobiphenyl [2C], Tetrachloro-m-xylene, Tetrachloro-m-xylene [2C]

12E0862-01[PH-CBK-501]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0862

Date Received: 5/22/2012

Field Sample #: PH-CBK-501 | Sampled: 5/22/2012 09:45

Sample ID: 12E0862-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	5/22/12	5/24/12 10:42	MJC
Aroclor-1221 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	5/22/12	5/24/12 10:42	MJC
Aroclor-1232 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	5/22/12	5/24/12 10:42	MJC
Aroclor-1242 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	5/22/12	5/24/12 10:42	MJC
Aroclor-1248 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	5/22/12	5/24/12 10:42	MJC
Aroclor-1254 [2]	37	9.5	mg/Kg	50		SW-846 8082A	5/22/12	5/24/12 10:42	MJC
Aroclor-1260 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	5/22/12	5/24/12 10:42	MJC
Aroclor-1262 [1]	ND	9.5	mg/Kg	50		SW-846 8082A	5/22/12	5/24/12 10:42	MJC
Aroclor-1268 [1]	56	9.5	mg/Kg	50		SW-846 8082A	5/22/12	5/24/12 10:42	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	*	30-150	S-01	5/24/12 10:42
Decachlorobiphenyl [2]	*	30-150	S-01	5/24/12 10:42
Tetrachloro-m-xylene [1]	*	30-150	S-01	5/24/12 10:42
Tetrachloro-m-xylene [2]	*	30-150	S-01	5/24/12 10:42

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0862

Date Received: 5/22/2012

Field Sample #: PH-VBC-502 | Sampled: 5/22/2012 14:00

Sample ID: 12E0862-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/22/12	5/23/12 18:49	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/22/12	5/23/12 18:49	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/22/12	5/23/12 18:49	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/22/12	5/23/12 18:49	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/22/12	5/23/12 18:49	MJC
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/22/12	5/23/12 18:49	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/22/12	5/23/12 18:49	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/22/12	5/23/12 18:49	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/22/12	5/23/12 18:49	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.7	30-150		5/23/12 18:49
Decachlorobiphenyl [2]	81.1	30-150		5/23/12 18:49
Tetrachloro-m-xylene [1]	92.4	30-150		5/23/12 18:49
Tetrachloro-m-xylene [2]	93.5	30-150		5/23/12 18:49

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0862-01 [PH-CBK-501]	B052070	0.525	10.0	05/22/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0862-02 [PH-VBC-502]	B052071	2.10	10.0	05/22/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052070 - SW-846 3540C										
Blank (B052070-BLK1)				Prepared: 05/22/12 Analyzed: 05/24/12						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*3.50*		mg/Kg	4.00		87.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*3.55*		mg/Kg	4.00		88.7	30-150			
Surrogate: Tetrachloro-m-xylene	*3.49*		mg/Kg	4.00		87.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.42*		mg/Kg	4.00		85.6	30-150			
LCS (B052070-BS1)				Prepared: 05/22/12 Analyzed: 05/24/12						
Aroclor-1016	3.4	0.20	mg/Kg	4.00		85.3	40-140			
Aroclor-1016 [2C]	3.3	0.20	mg/Kg	4.00		82.8	40-140			
Aroclor-1260	2.7	0.20	mg/Kg	4.00		66.5	40-140			
Aroclor-1260 [2C]	2.5	0.20	mg/Kg	4.00		63.3	40-140			
Surrogate: Decachlorobiphenyl	*2.45*		mg/Kg	4.00		61.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.44*		mg/Kg	4.00		60.9	30-150			
Surrogate: Tetrachloro-m-xylene	*3.99*		mg/Kg	4.00		99.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.92*		mg/Kg	4.00		98.1	30-150			
LCS Dup (B052070-BSD1)				Prepared: 05/22/12 Analyzed: 05/24/12						
Aroclor-1016	3.7	0.20	mg/Kg	4.00		93.3	40-140	8.93	30	
Aroclor-1016 [2C]	3.6	0.20	mg/Kg	4.00		90.5	40-140	8.97	30	
Aroclor-1260	3.1	0.20	mg/Kg	4.00		77.0	40-140	14.6	30	
Aroclor-1260 [2C]	3.0	0.20	mg/Kg	4.00		73.9	40-140	15.4	30	
Surrogate: Decachlorobiphenyl	*2.60*		mg/Kg	4.00		65.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.62*		mg/Kg	4.00		65.5	30-150			
Surrogate: Tetrachloro-m-xylene	*4.25*		mg/Kg	4.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.16*		mg/Kg	4.00		104	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052071 - SW-846 3540C										
Blank (B052071-BLK1)				Prepared: 05/22/12 Analyzed: 05/23/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.828*		mg/Kg	1.00		82.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.818*		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.935*		mg/Kg	1.00		93.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.945*		mg/Kg	1.00		94.5	30-150			
LCS (B052071-BS1)				Prepared: 05/22/12 Analyzed: 05/23/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250		96.5	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		102	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		94.4	40-140			
Surrogate: Decachlorobiphenyl	*0.824*		mg/Kg	1.00		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.801*		mg/Kg	1.00		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.941*		mg/Kg	1.00		94.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.954*		mg/Kg	1.00		95.4	30-150			
LCS Dup (B052071-BSD1)				Prepared: 05/22/12 Analyzed: 05/23/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		103	40-140	6.92	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		106	40-140	0.438	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140	1.39	30	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		97.2	40-140	2.99	30	
Surrogate: Decachlorobiphenyl	*0.841*		mg/Kg	1.00		84.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.811*		mg/Kg	1.00		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.941*		mg/Kg	1.00		94.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.953*		mg/Kg	1.00		95.3	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

CHAIN OF CUSTODY RECORD

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Page 1 of 1

12E0862

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A. Wallace
Project Location: Harv. Univ. Pound Hall
Sampled By: Kim Rinard / Jill Russell

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
O FAX ✓ EMAIL O WEBSITE
~~Fax#~~ jhamel@woodardcurran.com
Email: awallace@woodardcurran.com
Format: ✓ PDF ✓ EXCEL O GIS
O OTHER
O "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
✓ yes 2011/2011 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C PCBs													
# of Containers								1													
** Preservation								I													
***Container Code								G													
01	PH-CBL-S01	5/22/12	0945			K	H*	✓	Red-Brick to Nothing (Red/Brown)												
02	PH-VBL-S02	↓	1400			C	UNK	✓	PRV-1st flr R IA												

5/22/12 (UNK) 5/22/12 (UNK) 5/22/12 (UNK)

Comments: ① EPA 8082/3540C Soxhlet ② RL ≤ 1mg/kg ③ 48 Hr TAT
(*) Source material - potentially HOT sample

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
O Field Filtered
O Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time:
K. Rinard	5/22/12 1950
Received by: (signature) 26.4°C	Date/Time:
C. Clough-Legault	5/22/12 19:50
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
O RCP Analysis Certification Form Required
O MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA ACCREDITED LABORATORY Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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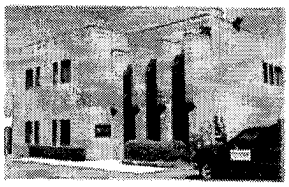

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 5/22/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☑ Ambient ☑ In Cooler(s) ☑ C.C.S.

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 26.4 °C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	2
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0862
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0862-01 thru 12E0862-02

Matrices: Caulk Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/24/12

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

May 25, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E0909

Enclosed are results of analyses for samples received by the laboratory on May 23, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/25/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E0909

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-503	12E0909-01	Product/Solid		SW-846 8082A	
PH-VBC-504	12E0909-02	Product/Solid		SW-846 8082A	
PH-VBC-505	12E0909-03	Product/Solid		SW-846 8082A	
PH-VBC-506	12E0909-04	Product/Solid		SW-846 8082A	
PH-VBC-507	12E0909-05	Product/Solid		SW-846 8082A	
PH-VBC-508	12E0909-06	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

A five times dilution was perfomed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

12E0909-01[PH-VBC-503], 12E0909-02[PH-VBC-504], 12E0909-03[PH-VBC-505], 12E0909-04[PH-VBC-506], 12E0909-06[PH-VBC-508]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0909

Date Received: 5/23/2012

Field Sample #: PH-VBC-503 | Sampled: 5/23/2012 10:30

Sample ID: 12E0909-01

Sample Matrix: Product/Solid

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 16:49	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 16:49	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 16:49	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 16:49	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 16:49	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 16:49	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 16:49	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 16:49	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 16:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	75.3	30-150		5/24/12 16:49
Decachlorobiphenyl [2]	73.5	30-150		5/24/12 16:49
Tetrachloro-m-xylene [1]	91.8	30-150		5/24/12 16:49
Tetrachloro-m-xylene [2]	92.0	30-150		5/24/12 16:49

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0909

Date Received: 5/23/2012

Field Sample #: PH-VBC-504 | Sampled: 5/23/2012 10:40

Sample ID: 12E0909-02

Sample Matrix: Product/Solid

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:02	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:02	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:02	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:02	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:02	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:02	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:02	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:02	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	80.5	30-150		5/24/12 17:02
Decachlorobiphenyl [2]	78.6	30-150		5/24/12 17:02
Tetrachloro-m-xylene [1]	96.1	30-150		5/24/12 17:02
Tetrachloro-m-xylene [2]	95.9	30-150		5/24/12 17:02

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0909

Date Received: 5/23/2012

Field Sample #: PH-VBC-505 | Sampled: 5/23/2012 10:45

Sample ID: 12E0909-03

Sample Matrix: Product/Solid

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:14	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:14	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:14	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:14	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:14	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:14	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:14	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:14	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:14	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	87.8	30-150		5/24/12 17:14
Decachlorobiphenyl [2]	86.1	30-150		5/24/12 17:14
Tetrachloro-m-xylene [1]	100	30-150		5/24/12 17:14
Tetrachloro-m-xylene [2]	100	30-150		5/24/12 17:14

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0909

Date Received: 5/23/2012

Field Sample #: PH-VBC-506 | Sampled: 5/23/2012 10:50

Sample ID: 12E0909-04

Sample Matrix: Product/Solid

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	58.4	30-150		5/24/12 17:26
Decachlorobiphenyl [2]	58.0	30-150		5/24/12 17:26
Tetrachloro-m-xylene [1]	67.3	30-150		5/24/12 17:26
Tetrachloro-m-xylene [2]	67.4	30-150		5/24/12 17:26

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0909

Date Received: 5/23/2012

Field Sample #: PH-VBC-507 | Sampled: 5/23/2012 10:55

Sample ID: 12E0909-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:39	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:39	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:39	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:39	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:39	JMB
Aroclor-1254 [1]	0.14	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:39	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:39	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:39	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.5	30-150		5/24/12 17:39
Decachlorobiphenyl [2]	81.6	30-150		5/24/12 17:39
Tetrachloro-m-xylene [1]	95.9	30-150		5/24/12 17:39
Tetrachloro-m-xylene [2]	96.2	30-150		5/24/12 17:39

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E0909

Date Received: 5/23/2012

Field Sample #: PH-VBC-508 | Sampled: 5/23/2012 11:00

Sample ID: 12E0909-06

Sample Matrix: Product/Solid

Sample Flags: O-32

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:51	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:51	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:51	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:51	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:51	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:51	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:51	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:51	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	5/23/12	5/24/12 17:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	77.7	30-150		5/24/12 17:51
Decachlorobiphenyl [2]	77.8	30-150		5/24/12 17:51
Tetrachloro-m-xylene [1]	91.3	30-150		5/24/12 17:51
Tetrachloro-m-xylene [2]	91.8	30-150		5/24/12 17:51

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E0909-01 [PH-VBC-503]	B052137	2.30	10.0	05/23/12
12E0909-02 [PH-VBC-504]	B052137	2.10	10.0	05/23/12
12E0909-03 [PH-VBC-505]	B052137	2.10	10.0	05/23/12
12E0909-04 [PH-VBC-506]	B052137	2.00	10.0	05/23/12
12E0909-05 [PH-VBC-507]	B052137	2.10	10.0	05/23/12
12E0909-06 [PH-VBC-508]	B052137	2.10	10.0	05/23/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052137 - SW-846 3540C										
Blank (B052137-BLK1)				Prepared: 05/23/12 Analyzed: 05/24/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.790*		mg/Kg	1.00		79.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.778*		mg/Kg	1.00		77.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.916*		mg/Kg	1.00		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.929*		mg/Kg	1.00		92.9	30-150			
LCS (B052137-BS1)				Prepared: 05/23/12 Analyzed: 05/24/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1016 [2C]	0.24	0.10	mg/Kg	0.250		94.2	40-140			
Aroclor-1260	0.24	0.10	mg/Kg	0.250		96.9	40-140			
Aroclor-1260 [2C]	0.24	0.10	mg/Kg	0.250		97.1	40-140			
Surrogate: Decachlorobiphenyl	*0.874*		mg/Kg	1.00		87.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.854*		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.982*		mg/Kg	1.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.986*		mg/Kg	1.00		98.6	30-150			
LCS Dup (B052137-BSD1)				Prepared: 05/23/12 Analyzed: 05/24/12						
Aroclor-1016	0.24	0.10	mg/Kg	0.250		95.1	40-140	10.4	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140	6.98	30	
Aroclor-1260	0.23	0.10	mg/Kg	0.250		92.1	40-140	5.09	30	
Aroclor-1260 [2C]	0.23	0.10	mg/Kg	0.250		92.9	40-140	4.40	30	
Surrogate: Decachlorobiphenyl	*0.814*		mg/Kg	1.00		81.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.798*		mg/Kg	1.00		79.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.963*		mg/Kg	1.00		96.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.968*		mg/Kg	1.00		96.8	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-32	A five times dilution was perfomed as part of the standard analytical procedure.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12E0909

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J Hamel, A. Wallace
Project Location: Harv. Univ. Pound Hall
Sampled By: Kim Rinard / Jill Russell

Project Proposal Provided? (for billing purposes)
☑ yes 20111221 proposal date

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Eax #: jhamel@woodardcuran.com
Email: awallace@ " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED: EPA 8082/3540C PCBs

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C PCBs	# of Containers / ** Preservation / ***Container Code	Dissolved Metals (Field Filtered / Lab to Filter)
01	PH-VBL-503	5/23/12	1030			C	Unk	✓	Roof 2" above - #1	
02	PH-VBL-504	↓	1040			C	Unk	✓	Roof 2" below - #2	
03	PH-VBL-505		1045			C	Unk	✓	Roof 2" above - #3	
04	PH-VBL-506		1050			C	Unk	✓	Roof 2" below - #4	
05	PH-VBL-507		1055			C	Unk	✓	Roof 2" above - #5	
06	PH-VBL-508	5/23/12	1100			C	Unk	✓	Roof 2" above - #6	
									below 5/23/12	
	5/23/12								KMR	

Comments: ① EPA 8082 via 3540C Soxhlet ② RL ≤ 1mg/kg ③ 48 Hr TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other
C = CONCRETE

Relinquished by: (signature)	Date/Time:
K. Rinard	5/23/12 1825
Received by: (signature) 24.5	Date/Time:
Stacy Nelson	5/23 1825
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
AIHA Accredited Laboratory Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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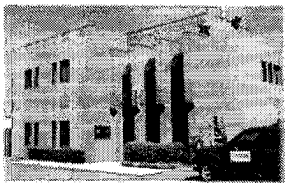

Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 5/23/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ C.C.S. Direct from Sampling ☐ Ambient ☑ In Cooler(s) ☑ C.C.S.

Were the samples received in Temperature Compliance of (2-6°C)? Yes No **N/A**

Temperature °C by Temp blank _____ Temperature °C by Temp gun 24.5 °C C.C.S.

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 109

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	6
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E0909
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E0909-01 thru 12E0909-06

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes ☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes ☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes ☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes ☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes ☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☑ Yes ☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes ☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes ☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes ☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 05/25/12

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

May 31, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E1005

Enclosed are results of analyses for samples received by the laboratory on May 25, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 5/31/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E1005

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-509	12E1005-01	Concrete	Roof #7 Above At Elev. Mech Rm.	SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harv. Univ. Pound Hall | Sample Description: Roof #7 Above At Elev. Mech Rm. | Work Order: 12E1005

Date Received: 5/25/2012

Field Sample #: PH-VBC-509 | Sampled: 5/23/2012 14:30

Sample ID: 12E1005-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	5/31/12 14:34	PJG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	5/31/12 14:34	PJG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	5/31/12 14:34	PJG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	5/31/12 14:34	PJG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	5/31/12 14:34	PJG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	5/31/12 14:34	PJG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	5/31/12 14:34	PJG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	5/31/12 14:34	PJG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	5/31/12 14:34	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	89.9	30-150		5/31/12 14:34
Decachlorobiphenyl [2]	90.3	30-150		5/31/12 14:34
Tetrachloro-m-xylene [1]	94.2	30-150		5/31/12 14:34
Tetrachloro-m-xylene [2]	97.7	30-150		5/31/12 14:34

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E1005-01RE1 [PH-VBC-509]	B052459	2.20	10.0	05/30/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052459 - SW-846 3540C										
Blank (B052459-BLK1)				Prepared: 05/30/12 Analyzed: 05/31/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.918*		mg/Kg	1.00		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.910*		mg/Kg	1.00		91.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.920*		mg/Kg	1.00		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.954*		mg/Kg	1.00		95.4	30-150			
LCS (B052459-BS1)				Prepared: 05/30/12 Analyzed: 05/31/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		113	40-140			
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140			
Aroclor-1260	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1260 [2C]	0.30	0.10	mg/Kg	0.250		121	40-140			
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.20*		mg/Kg	1.00		120	30-150			
LCS Dup (B052459-BSD1)				Prepared: 05/30/12 Analyzed: 05/31/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		104	40-140	8.84	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		106	40-140	8.60	30	
Aroclor-1260	0.27	0.10	mg/Kg	0.250		108	40-140	3.59	30	
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		117	40-140	3.29	30	
Surrogate: Decachlorobiphenyl	*0.970*		mg/Kg	1.00		97.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.969*		mg/Kg	1.00		96.9	30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

CHAIN OF CUSTODY RECORD

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www.contestlabs.com
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Page 1 of 1

12E1005

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Telephone:
Project # 223868
Client PO#

Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rivard / Jill Russell

Project Proposal Provided? (for billing purposes)
☑ yes 2011 1211 proposal date

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax#~~; jhamel@woodardcurran.com
Email: awallace " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C Soxhlet										# of Containers	** Preservation	***Container Code
01	PH-VBC-509	5/23/12	14:30			C	Unk	✓		Roof #7 - Above (@ Elev. Mech Rm)										

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments: ① EPA 8082 via 3540C Soxhlet ② RL ≤ 1mg/kg ③ 48 Hr TAT
④ C= Concrete

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
K Rivard	5/25/12 1915
Received by: (signature)	Date/Time:
27.8	5/25 19:15
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
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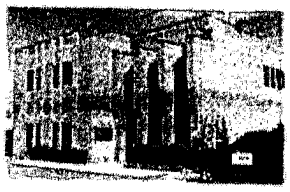

Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: SD DATE: 5/25/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No
If not, explain:

3) Are all the samples in good condition? Yes No
If not, explain:

4) How were the samples received:
On Ice ☐ Direct from Sampling ☑ Ambient ☑ In Cooler(s) ☐

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 27.8

5) Are there Dissolved samples for the lab to filter? Yes No
Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No
Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	1
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12E1005-01RE1 PH-VBC-509

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.856	0.8880454	3.67
Decachlorobiphenyl	0.817	0.8205818	0.437

B052459-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.920	0.95376	3.6
Decachlorobiphenyl	0.918	0.90972	0.906

B052459-BS1 LCS

Analyte	Results		%RPD
Aroclor-1260	0.28	0.302015	7.57
Aroclor-1016	0.28	0.2885	2.99
Surrogates			
Tetrachloro-m-xylene	1.16	1.20126	3.49
Decachlorobiphenyl	1.02	1.02183	0.179

B052459-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1260	0.27	0.292245	7.91
Aroclor-1016	0.26	0.264715	1.8
Surrogates			
Tetrachloro-m-xylene	1.00	1.039245	3.85
Decachlorobiphenyl	0.970	0.969395	0.0624

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June 1, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E1105

Enclosed are results of analyses for samples received by the laboratory on May 30, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 6/1/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E1105

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-511	12E1105-01	Product/Solid		SW-846 8082A	
PH-VBC-512	12E1105-02	Product/Solid		SW-846 8082A	
PH-VBC-513	12E1105-03	Product/Solid		SW-846 8082A	
PH-VBC-514	12E1105-04	Product/Solid		SW-846 8082A	
PH-VBC-515	12E1105-05	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E1105

Date Received: 5/30/2012

Field Sample #: PH-VBC-511 | Sampled: 5/30/2012 15:45

Sample ID: 12E1105-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:36	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:36	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:36	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:36	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:36	MJC
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:36	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:36	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:36	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:36	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.2	30-150		6/1/12 10:36
Decachlorobiphenyl [2]	96.7	30-150		6/1/12 10:36
Tetrachloro-m-xylene [1]	102	30-150		6/1/12 10:36
Tetrachloro-m-xylene [2]	104	30-150		6/1/12 10:36

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E1105

Date Received: 5/30/2012

Field Sample #: PH-VBC-512 | Sampled: 5/30/2012 15:55

Sample ID: 12E1105-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:49	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:49	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:49	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:49	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:49	MJC
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:49	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:49	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:49	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 10:49	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		6/1/12 10:49
Decachlorobiphenyl [2]	101	30-150		6/1/12 10:49
Tetrachloro-m-xylene [1]	103	30-150		6/1/12 10:49
Tetrachloro-m-xylene [2]	105	30-150		6/1/12 10:49

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E1105

Date Received: 5/30/2012

Field Sample #: PH-VBC-513 | Sampled: 5/30/2012 16:15

Sample ID: 12E1105-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:02	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:02	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:02	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:02	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:02	MJC
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:02	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:02	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:02	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:02	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	105	30-150		6/1/12 11:02
Decachlorobiphenyl [2]	106	30-150		6/1/12 11:02
Tetrachloro-m-xylene [1]	105	30-150		6/1/12 11:02
Tetrachloro-m-xylene [2]	108	30-150		6/1/12 11:02

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E1105

Date Received: 5/30/2012

Field Sample #: PH-VBC-514 | Sampled: 5/30/2012 16:40

Sample ID: 12E1105-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:15	MJC
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:15	MJC
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:15	MJC
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:15	MJC
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:15	MJC
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:15	MJC
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:15	MJC
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:15	MJC
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:15	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	134	30-150		6/1/12 11:15
Decachlorobiphenyl [2]	136	30-150		6/1/12 11:15
Tetrachloro-m-xylene [1]	121	30-150		6/1/12 11:15
Tetrachloro-m-xylene [2]	124	30-150		6/1/12 11:15

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E1105

Date Received: 5/30/2012

Field Sample #: PH-VBC-515 | Sampled: 5/30/2012 16:50

Sample ID: 12E1105-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:28	MJC
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:28	MJC
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:28	MJC
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:28	MJC
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:28	MJC
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:28	MJC
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:28	MJC
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:28	MJC
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	5/30/12	6/1/12 11:28	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		6/1/12 11:28
Decachlorobiphenyl [2]	102	30-150		6/1/12 11:28
Tetrachloro-m-xylene [1]	104	30-150		6/1/12 11:28
Tetrachloro-m-xylene [2]	106	30-150		6/1/12 11:28

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E1105-01 [PH-VBC-511]	B052470	2.20	10.0	05/30/12
12E1105-02 [PH-VBC-512]	B052470	2.20	10.0	05/30/12
12E1105-03 [PH-VBC-513]	B052470	2.20	10.0	05/30/12
12E1105-04 [PH-VBC-514]	B052470	2.30	10.0	05/30/12
12E1105-05 [PH-VBC-515]	B052470	2.20	10.0	05/30/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052470 - SW-846 3540C										
Blank (B052470-BLK1)				Prepared: 05/30/12 Analyzed: 06/01/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.989*		mg/Kg	1.00		98.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.984*		mg/Kg	1.00		98.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			
LCS (B052470-BS1)				Prepared: 05/30/12 Analyzed: 06/01/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140			
Aroclor-1260	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		104	40-140			
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.994*		mg/Kg	1.00		99.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.998*		mg/Kg	1.00		99.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	1.00		102	30-150			
LCS Dup (B052470-BSD1)				Prepared: 05/30/12 Analyzed: 06/01/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		102	40-140	8.92	30	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		110	40-140	1.06	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		103	40-140	1.93	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		102	40-140	1.82	30	
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.980*		mg/Kg	1.00		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.999*		mg/Kg	1.00		99.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052470 - SW-846 3540C										
Matrix Spike (B052470-MS1)		**Source: 12E1105-01**		Prepared: 05/30/12 Analyzed: 06/01/12						
Aroclor-1016	0.27	0.091	mg/Kg	0.227	0.0	117	40-140			
Aroclor-1016 [2C]	0.26	0.091	mg/Kg	0.227	0.0	115	40-140			
Aroclor-1260	0.25	0.091	mg/Kg	0.227	0.0	108	40-140			
Aroclor-1260 [2C]	0.24	0.091	mg/Kg	0.227	0.0	106	40-140			
Surrogate: Decachlorobiphenyl	*0.945*		mg/Kg	0.909		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.950*		mg/Kg	0.909		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.942*		mg/Kg	0.909		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.966*		mg/Kg	0.909		106	30-150			
Matrix Spike Dup (B052470-MSD1)		**Source: 12E1105-01**		Prepared: 05/30/12 Analyzed: 06/01/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250	0.0	113	40-140	6.52	50	
Aroclor-1016 [2C]	0.31	0.10	mg/Kg	0.250	0.0	123	40-140	16.2	50	
Aroclor-1260	0.28	0.10	mg/Kg	0.250	0.0	112	40-140	13.4	50	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250	0.0	110	40-140	13.2	50	
Surrogate: Decachlorobiphenyl	*1.08*		mg/Kg	1.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.08*		mg/Kg	1.00		108	30-150			
Surrogate: Tetrachloro-m-xylene	*1.08*		mg/Kg	1.00		108	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.11*		mg/Kg	1.00		111	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

1 of 1

12E1105

Company Name: Woodard + Curran
Address: 41 Hutchins Ave Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard
Project Proposal Provided? (for billing purposes) ✓ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ✓EMAIL ○WEBSITE
~~Fax~~ # jhamel@woodardcurran.com
Email: awallace " " "
Format: ✓PDF ✓EXCEL ○GIS ○ OTHER ○ "Enhanced Data Package"

# of Containers: 1
** Preservation: I
***Container Code: G

ANALYSIS REQUESTED: EPA 8082/3540C PCB

Dissolved Metals ○ Field Filtered ○ Lab to Filter

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C PCB	
01	PH-VBL-S11	5/30/12	1545			C	Unk		G-elev spandrel above brick
02	PH-VBL-S12	↓	1555			C	↓		G-elev sill below window
03	PH-VBL-S13	↓	1615			C	↓		G-elev spandrel above window
04	PH-VBL-S14	↓	1640			C	↓		H-elev spandrel above window
05	PH-VBL-S15	↓	1650			C	↓		H-elev sill below window (2)
5/30/12 KAR	~~PH-VBL-S16~~	~~5/30/12~~	~~1710~~			~~C~~	~~Unk~~		~~H-elev sill below window (1st)~~

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Comments: (1) EPA 8082 PCB via 3540C Soxhlet (2) RL ≤ 1mg/kg (3) 48 Hr-TAT-All Active (4) Ext Elevation samples

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [signature] (K Rinard)	Date/Time: 5/30/12 2045
Received by: (signature) [signature] 2.4°C	Date/Time: 5/30/12 20:45
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ✓ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL 1mg/kg

Is your project MCP or RCP ?
✓ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ______

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** C.C.S. **DATE:** 5/30/12

1) Was the chain(s) of custody relinquished and signed? Yes No **No CoC Included**

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ C.C.S. Direct from Sampling ☑ Ambient ☑ In Cooler(s) ☒ C.C.S.

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 24.4°C

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	5
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E1105
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E1105-01 thru 12E1105-05

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 06/01/12

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June 4, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12E1181

Enclosed are results of analyses for samples received by the laboratory on May 31, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 6/4/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12E1181

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-516	12E1181-01	Concrete		SW-846 8082A	
PH-VBC-517	12E1181-02	Concrete		SW-846 8082A	
PH-VBC-518	12E1181-03	Concrete		SW-846 8082A	
PH-VBC-519	12E1181-04	Concrete		SW-846 8082A	
PH-VBC-520	12E1181-05	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E1181

Date Received: 5/31/2012

Field Sample #: PH-VBC-516 | Sampled: 5/31/2012 15:35

Sample ID: 12E1181-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:22	MJC
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:22	MJC
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:22	MJC
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:22	MJC
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:22	MJC
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:22	MJC
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:22	MJC
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:22	MJC
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:22	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	126	30-150		6/2/12 14:22
Decachlorobiphenyl [2]	110	30-150		6/2/12 14:22
Tetrachloro-m-xylene [1]	118	30-150		6/2/12 14:22
Tetrachloro-m-xylene [2]	111	30-150		6/2/12 14:22

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

Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12E1181

Date Received: 5/31/2012

Field Sample #: PH-VBC-517
Sampled: 5/31/2012 14:10

Sample ID: 12E1181-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:35	MJC
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:35	MJC
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:35	MJC
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:35	MJC
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:35	MJC
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:35	MJC
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:35	MJC
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:35	MJC
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		6/2/12 14:35
Decachlorobiphenyl [2]	94.7	30-150		6/2/12 14:35
Tetrachloro-m-xylene [1]	98.9	30-150		6/2/12 14:35
Tetrachloro-m-xylene [2]	92.1	30-150		6/2/12 14:35

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E1181

Date Received: 5/31/2012

Field Sample #: PH-VBC-518 | Sampled: 5/31/2012 15:55

Sample ID: 12E1181-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:47	MJC
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:47	MJC
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:47	MJC
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:47	MJC
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:47	MJC
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:47	MJC
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:47	MJC
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:47	MJC
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/2/12 14:47	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	107	30-150		6/2/12 14:47
Decachlorobiphenyl [2]	96.4	30-150		6/2/12 14:47
Tetrachloro-m-xylene [1]	96.9	30-150		6/2/12 14:47
Tetrachloro-m-xylene [2]	91.3	30-150		6/2/12 14:47

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E1181

Date Received: 5/31/2012

Field Sample #: PH-VBC-519 | Sampled: 5/31/2012 16:15

Sample ID: 12E1181-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 20:56	MJC
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 20:56	MJC
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 20:56	MJC
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 20:56	MJC
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 20:56	MJC
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 20:56	MJC
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 20:56	MJC
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 20:56	MJC
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 20:56	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		6/1/12 20:56
Decachlorobiphenyl [2]	95.6	30-150		6/1/12 20:56
Tetrachloro-m-xylene [1]	95.8	30-150		6/1/12 20:56
Tetrachloro-m-xylene [2]	90.1	30-150		6/1/12 20:56

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12E1181

Date Received: 5/31/2012

Field Sample #: PH-VBC-520 | Sampled: 5/31/2012 14:30

Sample ID: 12E1181-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 21:08	MJC
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 21:08	MJC
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 21:08	MJC
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 21:08	MJC
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 21:08	MJC
Aroclor-1254 [2]	0.20	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 21:08	MJC
Aroclor-1260 [1]	0.22	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 21:08	MJC
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 21:08	MJC
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	5/31/12	6/1/12 21:08	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		6/1/12 21:08
Decachlorobiphenyl [2]	96.3	30-150		6/1/12 21:08
Tetrachloro-m-xylene [1]	99.6	30-150		6/1/12 21:08
Tetrachloro-m-xylene [2]	93.2	30-150		6/1/12 21:08

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E1181-01 [PH-VBC-516]	B052510	2.30	10.0	05/31/12
12E1181-02 [PH-VBC-517]	B052510	2.30	10.0	05/31/12
12E1181-03 [PH-VBC-518]	B052510	2.30	10.0	05/31/12

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12E1181-04 [PH-VBC-519]	B052549	2.30	10.0	05/31/12
12E1181-05 [PH-VBC-520]	B052549	2.30	10.0	05/31/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052510 - SW-846 3540C										
Blank (B052510-BLK1)				Prepared: 05/31/12 Analyzed: 06/02/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.995*		mg/Kg	1.00		99.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.948*		mg/Kg	1.00		94.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.973*		mg/Kg	1.00		97.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.889*		mg/Kg	1.00		88.9	30-150			
LCS (B052510-BS1)				Prepared: 05/31/12 Analyzed: 06/02/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140			
Aroclor-1260	0.28	0.10	mg/Kg	0.250		111	40-140			
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140			
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.947*		mg/Kg	1.00		94.7	30-150			
LCS Dup (B052510-BSD1)				Prepared: 05/31/12 Analyzed: 06/02/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		106	40-140	5.45	30	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg	0.250		101	40-140	6.82	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140	6.58	30	
Aroclor-1260 [2C]	0.26	0.10	mg/Kg	0.250		106	40-140	5.72	30	
Surrogate: Decachlorobiphenyl	*0.991*		mg/Kg	1.00		99.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.931*		mg/Kg	1.00		93.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.906*		mg/Kg	1.00		90.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.846*		mg/Kg	1.00		84.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052549 - SW-846 3540C										
Blank (B052549-BLK1)				Prepared: 05/31/12 Analyzed: 06/01/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.954*		mg/Kg	1.00		95.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.919*		mg/Kg	1.00		91.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.859*		mg/Kg	1.00		85.9	30-150			
LCS (B052549-BS1)				Prepared: 05/31/12 Analyzed: 06/01/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		109	40-140			
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		105	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		107	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		109	40-140			
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.982*		mg/Kg	1.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.994*		mg/Kg	1.00		99.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.929*		mg/Kg	1.00		92.9	30-150			
LCS Dup (B052549-BSD1)				Prepared: 05/31/12 Analyzed: 06/01/12						
Aroclor-1016	0.26	0.10	mg/Kg	0.250		105	40-140	3.11	30	
Aroclor-1016 [2C]	0.26	0.10	mg/Kg	0.250		103	40-140	1.67	30	
Aroclor-1260	0.27	0.10	mg/Kg	0.250		106	40-140	0.886	30	
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140	1.22	30	
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.940*		mg/Kg	1.00		94.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.874*		mg/Kg	1.00		87.4	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12E1181

Company Name: Woodard & Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel A Wallace
Project Location: Harv Univ. Pound Hall
Sampled By: Kim Rinard

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax #~~ jhamel@woodardcurran.com
Email: awallace@ " " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C Soxhlet	
01	PH-VBC-516	5/31/12	1535			C	Unk	✓	Elev H - 1st floor
02	PH-VBC-517	↓	1410			↓	↓	✓	Underpass - 1" above waffle
03	PH-VBC-518	↓	1555			↓	↓	✓	Felev - Rm 212 spandrel
04	PH-VBC-519	↓	1615			↓	↓	✓	Felev - 2nd flr spandrel/brick
05	PH-VBC-520	↓	1430			C	Unk	✓	Roof #8 - Delineation

5/31/12

Comments: ① EPA 8082 PCB's via 3540C Soxhlet ② RL ≤ 1mg/kg ③ 48 Hr TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other
C = Concrete

Relinquished by: (signature)	Date/Time:
K Rinard (K. Rinard) 23.6°C	5/31/12 2030
Received by: (signature) 23.6	5/31 2030
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** SD **DATE:** 5/31/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☐ Direct from Sampling ☑ Ambient ☑ In Cooler(s) ☐

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 23.6

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	5
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12E1092-01 MR-VBB-167

Analyte	Results		%RPD
Aroclor-1254	0.24	0.219385	8.98
Surrogates			
Decachlorobiphenyl	1.05	0.981935	6.7
Tetrachloro-m-xylene	0.949	0.882895	7.22

12E1181-01 PH-VBC-516

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.09	0.954213	13.3
Tetrachloro-m-xylene	1.03	0.9649305	6.52

12E1181-02 PH-VBC-517

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.922	0.8232783	11.3
Tetrachloro-m-xylene	0.860	0.8004739	7.17

12E1181-03 PH-VBC-518

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.928	0.8379522	10.2
Tetrachloro-m-xylene	0.842	0.7938869	5.88

12E1181-04 PH-VBC-519

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.898	0.8315827	7.68
Tetrachloro-m-xylene	0.833	0.783887	6.08

12E1181-05 PH-VBC-520

Analyte	Results		%RPD
Aroclor-1260	0.22	0.1939957	12.6
Aroclor-1254 [2C]	0.20	0.1790044	11.1
Surrogates			
Decachlorobiphenyl	0.880	0.8375	4.95
Tetrachloro-m-xylene	0.866	0.8105609	6.61

B052510-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.995	0.948425	4.79
Tetrachloro-m-xylene	0.973	0.888655	9.06

B052510-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.28	0.26938	3.87
Aroclor-1260	0.28	0.279725	0.0983
Surrogates			
Tetrachloro-m-xylene	1.02	0.94716	7.41
Decachlorobiphenyl	1.06	1.00238	5.59

B052510-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.27	0.25161	7.05
Aroclor-1260	0.26	0.26418	1.59
Surrogates			
Decachlorobiphenyl	0.991	0.93075	6.27
Tetrachloro-m-xylene	0.906	0.84621	6.82

B052510-MS1 Matrix Spike

Analyte		Results	%RPD
Aroclor-1016	0.32	0.29059	9.63
Aroclor-1260	0.42	0.35512	16.7
Surrogates			
Decachlorobiphenyl	1.36	1.23158	9.91
Tetrachloro-m-xylene	1.23	1.127005	8.74

B052510-MSD1 Matrix Spike Dup

Analyte		Results	%RPD
Aroclor-1260	0.33	0.280735	16.1
Aroclor-1016	0.26	0.243225	6.67
Surrogates			
Decachlorobiphenyl	1.06	0.96771	9.1
Tetrachloro-m-xylene	0.957	0.89009	7.24

B052549-BLK1 Blank

Analyte		Results	%RPD
Surrogates			
Tetrachloro-m-xylene	0.919	0.858915	6.76
Decachlorobiphenyl	1.03	0.954245	7.64

B052549-BS1 LCS

Analyte		Results	%RPD
Aroclor-1016	0.27	0.263	2.63
Aroclor-1260	0.27	0.27212	0.782
Surrogates			
Decachlorobiphenyl	1.06	0.98162	7.68
Tetrachloro-m-xylene	0.994	0.929095	6.75

B052549-BSD1 LCS Dup

Analyte		Results	%RPD
Aroclor-1016	0.26	0.258645	0.523
Aroclor-1260	0.27	0.268815	0.44
Surrogates			
Tetrachloro-m-xylene	0.937	0.874145	6.94
Decachlorobiphenyl	1.02	0.93975	8.19

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12E1181
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12E1181-01 thru 12E1181-05

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 06/04/12

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

June 5, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12F0044

Enclosed are results of analyses for samples received by the laboratory on June 1, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 6/5/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12F0044

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

PROJECT LOCATION: Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-522	12F0044-01	Concrete		SW-846 8082A	
PH-VBC-523	12F0044-02	Concrete		SW-846 8082A	
PH-VBCD-524	12F0044-03	Concrete		SW-846 8082A	
PH-VBC-525	12F0044-04	Concrete		SW-846 8082A	
PH-VBC-526	12F0044-05	Concrete		SW-846 8082A	
PH-VBC-527	12F0044-06	Concrete		SW-846 8082A	
PH-VBC-528	12F0044-07	Concrete		SW-846 8082A	
PH-VBC-529	12F0044-08	Concrete		SW-846 8082A	
PH-VBC-530	12F0044-09	Concrete		SW-846 8082A	
PH-VBC-532	12F0044-10	Concrete		SW-846 8082A	
PH-VBC-533	12F0044-11	Concrete		SW-846 8082A	
PH-VBC-534	12F0044-12	Concrete		SW-846 8082A	
PH-VBC-535	12F0044-13	Concrete		SW-846 8082A	
PH-VBC-536	12F0044-14	Concrete		SW-846 8082A	
PH-VBC-537	12F0044-15	Concrete		SW-846 8082A	
PH-VBC-538	12F0044-16	Concrete		SW-846 8082A	
PH-VBC-539	12F0044-17	Concrete		SW-846 8082A	
PH-VBC-540	12F0044-18	Concrete		SW-846 8082A	
PH-VBC-541	12F0044-19	Concrete		SW-846 8082A	
PH-CBC-531	12F0044-20	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-522 | Sampled: 6/1/2012 12:00

Sample ID: 12F0044-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 19:49	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 19:49	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 19:49	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 19:49	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 19:49	JMB
Aroclor-1254 [2]	0.62	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 19:49	JMB
Aroclor-1260 [2]	0.60	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 19:49	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 19:49	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 19:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.2	30-150		6/4/12 19:49
Decachlorobiphenyl [2]	94.5	30-150		6/4/12 19:49
Tetrachloro-m-xylene [1]	91.4	30-150		6/4/12 19:49
Tetrachloro-m-xylene [2]	94.3	30-150		6/4/12 19:49

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-523
Sampled: 6/1/2012 12:02

Sample ID: 12F0044-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:02	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:02	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:02	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:02	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:02	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:02	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:02	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:02	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	110	30-150		6/4/12 20:02
Decachlorobiphenyl [2]	108	30-150		6/4/12 20:02
Tetrachloro-m-xylene [1]	104	30-150		6/4/12 20:02
Tetrachloro-m-xylene [2]	106	30-150		6/4/12 20:02

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBCD-524 | Sampled: 6/1/2012 12:04

Sample ID: 12F0044-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:15	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:15	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:15	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:15	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:15	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:15	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:15	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:15	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.8	30-150		6/4/12 20:15
Decachlorobiphenyl [2]	97.6	30-150		6/4/12 20:15
Tetrachloro-m-xylene [1]	97.1	30-150		6/4/12 20:15
Tetrachloro-m-xylene [2]	99.8	30-150		6/4/12 20:15

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-525 | Sampled: 6/1/2012 12:06

Sample ID: 12F0044-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:28	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:28	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:28	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:28	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:28	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:28	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:28	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:28	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		6/4/12 20:28
Decachlorobiphenyl [2]	99.4	30-150		6/4/12 20:28
Tetrachloro-m-xylene [1]	95.7	30-150		6/4/12 20:28
Tetrachloro-m-xylene [2]	98.3	30-150		6/4/12 20:28

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-526
Sampled: 6/1/2012 12:08

Sample ID: 12F0044-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:41	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:41	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:41	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:41	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:41	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:41	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:41	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:41	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.6	30-150		6/4/12 20:41
Decachlorobiphenyl [2]	91.7	30-150		6/4/12 20:41
Tetrachloro-m-xylene [1]	89.1	30-150		6/4/12 20:41
Tetrachloro-m-xylene [2]	91.8	30-150		6/4/12 20:41

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-527 | Sampled: 6/1/2012 12:10

Sample ID: 12F0044-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:53	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:53	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:53	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:53	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:53	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:53	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:53	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:53	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 20:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.2	30-150		6/4/12 20:53
Decachlorobiphenyl [2]	90.3	30-150		6/4/12 20:53
Tetrachloro-m-xylene [1]	86.8	30-150		6/4/12 20:53
Tetrachloro-m-xylene [2]	89.1	30-150		6/4/12 20:53

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-528 | Sampled: 6/1/2012 12:12

Sample ID: 12F0044-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:06	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:06	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:06	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:06	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:06	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:06	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:06	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:06	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.9	30-150		6/4/12 21:06
Decachlorobiphenyl [2]	97.0	30-150		6/4/12 21:06
Tetrachloro-m-xylene [1]	97.9	30-150		6/4/12 21:06
Tetrachloro-m-xylene [2]	101	30-150		6/4/12 21:06

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-529 | Sampled: 6/1/2012 12:14

Sample ID: 12F0044-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:19	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:19	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:19	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:19	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:19	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:19	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:19	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:19	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.5	30-150		6/4/12 21:19
Decachlorobiphenyl [2]	96.7	30-150		6/4/12 21:19
Tetrachloro-m-xylene [1]	92.6	30-150		6/4/12 21:19
Tetrachloro-m-xylene [2]	95.1	30-150		6/4/12 21:19

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-530
Sampled: 6/1/2012 12:16

Sample ID: 12F0044-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:32	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:32	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:32	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:32	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:32	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:32	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:32	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:32	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.6	30-150		6/4/12 21:32
Decachlorobiphenyl [2]	93.7	30-150		6/4/12 21:32
Tetrachloro-m-xylene [1]	91.4	30-150		6/4/12 21:32
Tetrachloro-m-xylene [2]	94.0	30-150		6/4/12 21:32

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-532 | Sampled: 6/1/2012 12:18

Sample ID: 12F0044-10

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:44	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:44	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:44	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:44	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:44	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:44	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:44	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:44	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 21:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.9	30-150		6/4/12 21:44
Decachlorobiphenyl [2]	91.2	30-150		6/4/12 21:44
Tetrachloro-m-xylene [1]	86.2	30-150		6/4/12 21:44
Tetrachloro-m-xylene [2]	88.4	30-150		6/4/12 21:44

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-533 | Sampled: 6/1/2012 13:01

Sample ID: 12F0044-11

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:33	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:33	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:33	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:33	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:33	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:33	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:33	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:33	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	92.3	30-150		6/4/12 22:33
Decachlorobiphenyl [2]	90.4	30-150		6/4/12 22:33
Tetrachloro-m-xylene [1]	85.7	30-150		6/4/12 22:33
Tetrachloro-m-xylene [2]	87.4	30-150		6/4/12 22:33

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-534 | Sampled: 6/1/2012 13:06

Sample ID: 12F0044-12

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:47	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:47	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:47	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:47	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:47	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:47	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:47	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:47	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 22:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.4	30-150		6/4/12 22:47
Decachlorobiphenyl [2]	92.3	30-150		6/4/12 22:47
Tetrachloro-m-xylene [1]	89.9	30-150		6/4/12 22:47
Tetrachloro-m-xylene [2]	92.0	30-150		6/4/12 22:47

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-535
Sampled: 6/1/2012 13:09

Sample ID: 12F0044-13

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:00	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:00	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:00	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:00	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:00	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:00	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:00	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:00	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.3	30-150		6/4/12 23:00
Decachlorobiphenyl [2]	96.4	30-150		6/4/12 23:00
Tetrachloro-m-xylene [1]	91.7	30-150		6/4/12 23:00
Tetrachloro-m-xylene [2]	93.9	30-150		6/4/12 23:00

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-536 | Sampled: 6/1/2012 13:13

Sample ID: 12F0044-14

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:12	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:12	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:12	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:12	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:12	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:12	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:12	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:12	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.5	30-150		6/4/12 23:12
Decachlorobiphenyl [2]	92.3	30-150		6/4/12 23:12
Tetrachloro-m-xylene [1]	87.3	30-150		6/4/12 23:12
Tetrachloro-m-xylene [2]	89.5	30-150		6/4/12 23:12

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-537
Sampled: 6/1/2012 13:17

Sample ID: 12F0044-15

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:25	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:25	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:25	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:25	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:25	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:25	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:25	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:25	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.1	30-150		6/4/12 23:25
Decachlorobiphenyl [2]	96.8	30-150		6/4/12 23:25
Tetrachloro-m-xylene [1]	96.7	30-150		6/4/12 23:25
Tetrachloro-m-xylene [2]	99.2	30-150		6/4/12 23:25

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-538
Sampled: 6/1/2012 13:20

Sample ID: 12F0044-16

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:38	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:38	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:38	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:38	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:38	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:38	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:38	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:38	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.3	30-150		6/4/12 23:38
Decachlorobiphenyl [2]	96.2	30-150		6/4/12 23:38
Tetrachloro-m-xylene [1]	94.4	30-150		6/4/12 23:38
Tetrachloro-m-xylene [2]	97.0	30-150		6/4/12 23:38

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

Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-539
Sampled: 6/1/2012 13:25

Sample ID: 12F0044-17

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:51	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:51	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:51	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:51	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:51	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:51	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:51	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:51	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/4/12 23:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		6/4/12 23:51
Decachlorobiphenyl [2]	98.9	30-150		6/4/12 23:51
Tetrachloro-m-xylene [1]	101	30-150		6/4/12 23:51
Tetrachloro-m-xylene [2]	104	30-150		6/4/12 23:51

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-540 | Sampled: 6/1/2012 13:30

Sample ID: 12F0044-18

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:04	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:04	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:04	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:04	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:04	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:04	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:04	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:04	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.3	30-150		6/5/12 0:04
Decachlorobiphenyl [2]	95.4	30-150		6/5/12 0:04
Tetrachloro-m-xylene [1]	92.8	30-150		6/5/12 0:04
Tetrachloro-m-xylene [2]	95.2	30-150		6/5/12 0:04

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-VBC-541 | Sampled: 6/1/2012 13:33

Sample ID: 12F0044-19

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:17	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:17	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:17	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:17	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:17	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:17	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:17	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:17	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		6/5/12 0:17
Decachlorobiphenyl [2]	101	30-150		6/5/12 0:17
Tetrachloro-m-xylene [1]	99.9	30-150		6/5/12 0:17
Tetrachloro-m-xylene [2]	102	30-150		6/5/12 0:17

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0044

Date Received: 6/1/2012

Field Sample #: PH-CBC-531
Sampled: 6/1/2012 12:37

Sample ID: 12F0044-20

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:30	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:30	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:30	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:30	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:30	JMB
Aroclor-1254 [2]	0.49	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:30	JMB
Aroclor-1260 [1]	0.77	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:30	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:30	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/1/12	6/5/12 0:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.4	30-150		6/5/12 0:30
Decachlorobiphenyl [2]	94.4	30-150		6/5/12 0:30
Tetrachloro-m-xylene [1]	91.1	30-150		6/5/12 0:30
Tetrachloro-m-xylene [2]	93.5	30-150		6/5/12 0:30

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12F0044-01 [PH-VBC-522]	B052606	2.20	10.0	06/01/12
12F0044-02 [PH-VBC-523]	B052606	2.00	10.0	06/01/12
12F0044-03 [PH-VBCD-524]	B052606	2.10	10.0	06/01/12
12F0044-04 [PH-VBC-525]	B052606	2.00	10.0	06/01/12
12F0044-05 [PH-VBC-526]	B052606	2.00	10.0	06/01/12
12F0044-06 [PH-VBC-527]	B052606	2.20	10.0	06/01/12
12F0044-07 [PH-VBC-528]	B052606	2.00	10.0	06/01/12
12F0044-08 [PH-VBC-529]	B052606	2.10	10.0	06/01/12
12F0044-09 [PH-VBC-530]	B052606	2.00	10.0	06/01/12
12F0044-10 [PH-VBC-532]	B052606	2.30	10.0	06/01/12
12F0044-11 [PH-VBC-533]	B052606	2.20	10.0	06/01/12
12F0044-12 [PH-VBC-534]	B052606	2.20	10.0	06/01/12
12F0044-13 [PH-VBC-535]	B052606	2.30	10.0	06/01/12
12F0044-14 [PH-VBC-536]	B052606	2.30	10.0	06/01/12
12F0044-15 [PH-VBC-537]	B052606	2.10	10.0	06/01/12
12F0044-16 [PH-VBC-538]	B052606	2.00	10.0	06/01/12
12F0044-17 [PH-VBC-539]	B052606	2.00	10.0	06/01/12
12F0044-18 [PH-VBC-540]	B052606	2.00	10.0	06/01/12
12F0044-19 [PH-VBC-541]	B052606	2.00	10.0	06/01/12
12F0044-20 [PH-CBC-531]	B052606	2.10	10.0	06/01/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052606 - SW-846 3540C										
Blank (B052606-BLK1)				Prepared: 06/01/12 Analyzed: 06/04/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.906*		mg/Kg	1.00		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.888*		mg/Kg	1.00		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.859*		mg/Kg	1.00		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.880*		mg/Kg	1.00		88.0	30-150			
LCS (B052606-BS1)				Prepared: 06/01/12 Analyzed: 06/04/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		109	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		107	40-140			
Aroclor-1260	0.25	0.10	mg/Kg	0.250		101	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140			
Surrogate: Decachlorobiphenyl	*0.977*		mg/Kg	1.00		97.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.961*		mg/Kg	1.00		96.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.936*		mg/Kg	1.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.961*		mg/Kg	1.00		96.1	30-150			
LCS Dup (B052606-BSD1)				Prepared: 06/01/12 Analyzed: 06/04/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		110	40-140	1.03	30	
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140	4.07	30	
Aroclor-1260	0.26	0.10	mg/Kg	0.250		104	40-140	2.41	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140	2.40	30	
Surrogate: Decachlorobiphenyl	*0.984*		mg/Kg	1.00		98.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.967*		mg/Kg	1.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.996*		mg/Kg	1.00		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052606 - SW-846 3540C										
Matrix Spike (B052606-MS1)		**Source: 12F0044-01**		Prepared: 06/01/12 Analyzed: 06/05/12						
Aroclor-1016	0.28	0.091	mg/Kg	0.227	0.0	123	40-140			
Aroclor-1016 [2C]	0.31	0.091	mg/Kg	0.227	0.0	135	40-140			
Aroclor-1260	0.72	0.091	mg/Kg	0.227	0.58	63.9	40-140			
Aroclor-1260 [2C]	0.72	0.091	mg/Kg	0.227	0.60	51.6	40-140			
Surrogate: Decachlorobiphenyl	*0.915*		mg/Kg	0.909		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.890*		mg/Kg	0.909		97.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.930*		mg/Kg	0.909		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.957*		mg/Kg	0.909		105	30-150			
Matrix Spike Dup (B052606-MSD1)		**Source: 12F0044-01**		Prepared: 06/01/12 Analyzed: 06/05/12						
Aroclor-1016	0.26	0.091	mg/Kg	0.227	0.0	113	40-140	8.44	50	
Aroclor-1016 [2C]	0.28	0.091	mg/Kg	0.227	0.0	123	40-140	9.31	50	
Aroclor-1260	0.72	0.091	mg/Kg	0.227	0.58	63.4	40-140	0.130	50	
Aroclor-1260 [2C]	0.72	0.091	mg/Kg	0.227	0.60	50.7	40-140	0.283	50	
Surrogate: Decachlorobiphenyl	*0.865*		mg/Kg	0.909		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.841*		mg/Kg	0.909		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.819*		mg/Kg	0.909		90.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.842*		mg/Kg	0.909		92.6	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

12F0044

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 2

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Portland Maine
Attention: Amy Wallace
Project Location: Cambridge, MA
Sampled By: AW / JAR

Telephone:
Project #
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email: gwallace@woodardcurran.com jhamel@"
Format: ☒ PDF ☒ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs 8082 Soxhlet	
-01	PH-VBC-522	6/1/12	1200		X	concrete	L	X	
-02	PH-VBC-523	↓	1202		↓	↓	↓	↓	
-03	PH-VBCD-524	↓	1204		↓	↓	↓	↓	
-04	PH-VBC-525	↓	1206		↓	↓	↓	↓	
-05	PH-VBC-526	↓	1208		↓	↓	↓	↓	
-06	PH-VBC-527	↓	1210		↓	↓	↓	↓	
-07	PH-VBC-528	↓	1212		↓	↓	↓	↓	
-08	PH-VBC-529	↓	1214		↓	↓	↓	↓	
-09	PH-VBC-530	↓	1216		↓	↓	↓	↓	
-10	PH-VBC-532	6/1/12	1218		X	concrete	L	X	

# of Containers: 1
** Preservation: 1
***Container Code: A

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments: R.L. <1 mg/kg

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [signature]	Date/Time: 6/1/12 1430
Received by: (signature) [signature] 6-1-12	Date/Time: 1430
Relinquished by: (signature) [signature] 6-1-12	Date/Time: 1750
Received by: (signature) [signature] 6/1/12	Date/Time: 1750

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: <1.0
Connecticut:
Other:

Is your project MCP or RCP ?
◉ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com
39 Spruce Street
East longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

120044

Page 2 of 2

Company Name: Woodard & Curran
Address:
Attention: Amy Walker
Project Location:
Sampled By: AW / JAR

Telephone: 207-774-2112
Project #
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☒ EMAIL ○ WEBSITE
Fax #
Email:
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED: Soxhlet/8082 PCB

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code
-11	PH-VBC-533	6/1/12	1301		X	conc	L			
-12	PH-VBC-534	↓	1306		↓	↓	↓			
-13	PH-VBC-535		1309							
-14	PH-VBC-536		1313							
-15	PH-VBC-537		1317							
-16	PH-VBC-538		1320							
-17	PH-VBC-539		1325							
-18	PH-VBC-540		1330							
-19	PH-VBC-541		1333							
-20	PH-CBC-531	↓	1237		↓	↓	↓			

Comments:
RL ≤ 1 mg/kg

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time: 6/1/12 1430
Received by: (signature)	Date/Time: 1730 6-1-12
Relinquished by: (signature)	Date/Time: 1750 6-1-12
Received by: (signature) 6/1/12	Date/Time: 1750

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: <1.0
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** CEC **DATE:** 6/1/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.0 c

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	20
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12F0044-01 PH-VBC-522

Analyte	Results		%RPD
Aroclor-1260 [2C]	0.60	0.5764864	4
Aroclor-1254 [2C]	0.62	0.4771227	26
Surrogates			
Decachlorobiphenyl	0.875	0.8591772	1.82
Tetrachloro-m-xylene	0.831	0.8573182	3.12

12F0044-02 PH-VBC-523

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.10	1.079825	1.85
Tetrachloro-m-xylene	1.04	1.064905	2.37

12F0044-03 PH-VBCD-524

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.950	0.9296381	2.17
Tetrachloro-m-xylene	0.924	0.9504286	2.82

12F0044-04 PH-VBC-525

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.02	0.993865	2.6
Tetrachloro-m-xylene	0.957	0.98276	2.66

12F0044-05 PH-VBC-526

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.936	0.91688	2.06
Tetrachloro-m-xylene	0.891	0.9181	3

12F0044-06 PH-VBC-527

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.838	0.8208136	2.07
Tetrachloro-m-xylene	0.789	0.8100636	2.63

12F0044-07 PH-VBC-528

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.989	0.96988	1.95
Tetrachloro-m-xylene	0.979	1.005635	2.68

12F0044-08 PH-VBC-529

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.938	0.9211286	1.81
Tetrachloro-m-xylene	0.882	0.9053429	2.61

12F0044-09 PH-VBC-530

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.956	0.936965	2.01
Tetrachloro-m-xylene	0.914	0.939555	2.76

12F0044-10 PH-VBC-532

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.807	0.7929609	1.75
Tetrachloro-m-xylene	0.749	0.7683435	2.55

12F0044-11 PH-VBC-533

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.839	0.8220818	2.04
Tetrachloro-m-xylene	0.779	0.7946818	1.99

12F0044-12 PH-VBC-534

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.817	0.8366954	2.38
Decachlorobiphenyl	0.858	0.8394591	2.18

12F0044-13 PH-VBC-535

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.855	0.8386044	1.94
Tetrachloro-m-xylene	0.798	0.8165044	2.29

12F0044-14 PH-VBC-536

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.821	0.8025826	2.27
Tetrachloro-m-xylene	0.759	0.7780566	2.48

12F0044-15 PH-VBC-537

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.921	0.9444477	2.51
Decachlorobiphenyl	0.944	0.9217429	2.39

12F0044-16 PH-VBC-538

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.983	0.962125	2.15
Tetrachloro-m-xylene	0.944	0.969875	2.7

12F0044-17 PH-VBC-539

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.01	0.98854	2.15
Tetrachloro-m-xylene	1.01	1.03627	2.57

12F0044-18 PH-VBC-540

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.983	0.953715	3.02
Tetrachloro-m-xylene	0.928	0.95206	2.56

12F0044-19 PH-VBC-541

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.03	1.010825	1.88
Tetrachloro-m-xylene	0.999	1.019925	2.07

12F0044-20 PH-CBC-531

Analyte	Results		%RPD
Aroclor-1260	0.77	0.7657143	0.558
Aroclor-1254 [2C]	0.49	0.4052571	18.9
Surrogates			
Decachlorobiphenyl	0.918	0.8987238	2.12
Tetrachloro-m-xylene	0.867	0.8904905	2.67

B052606-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.859	0.879555	2.36
Decachlorobiphenyl	0.906	0.887775	2.03

B052606-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.27	0.2677	0.855
Aroclor-1260	0.25	0.27006	7.71
Surrogates			
Tetrachloro-m-xylene	0.936	0.96076	2.61
Decachlorobiphenyl	0.977	0.961125	1.64

B052606-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.28	0.278815	0.424
Aroclor-1260	0.26	0.276615	6.19
Surrogates			
Decachlorobiphenyl	0.984	0.967495	1.69
Tetrachloro-m-xylene	0.996	1.025135	2.88

B052606-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.28	0.3077909	9.46
Aroclor-1260	0.72	0.7214409	0.2
Surrogates			
Decachlorobiphenyl	0.915	0.8897318	2.8
Tetrachloro-m-xylene	0.930	0.9567409	2.83

B052606-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.26	0.2804091	7.55
Aroclor-1260	0.72	0.7194045	0.0827
Surrogates			
Tetrachloro-m-xylene	0.819	0.8420227	2.77
Decachlorobiphenyl	0.865	0.8409682	2.82

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12F0044
Project Location: Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12F0044-01 thru 12F0044-20

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 06/05/12

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

June 5, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Cambridge MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12F0045

Enclosed are results of analyses for samples received by the laboratory on June 1, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 6/5/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12F0045

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

PROJECT LOCATION: Cambridge MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CBK-542	12F0045-01	Caulk		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 8082A

Qualifications:

Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.

Analyte & Samples(s) Qualified:

Aroclor-1254 [2C]

12F0045-01[PH-CBK-542]

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. The higher result was reported.

Analyte & Samples(s) Qualified:

Aroclor-1254 [2C]

12F0045-01[PH-CBK-542]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Cambridge MA
Sample Description:
Work Order: 12F0045

Date Received: 6/1/2012

Field Sample #: PH-CBK-542
Sampled: 6/1/2012 14:15

Sample ID: 12F0045-01

Sample Matrix: Caulk

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	5		SW-846 8082A	6/4/12	6/5/12 15:53	PJG
Aroclor-1221 [1]	ND	0.98	mg/Kg	5		SW-846 8082A	6/4/12	6/5/12 15:53	PJG
Aroclor-1232 [1]	ND	0.98	mg/Kg	5		SW-846 8082A	6/4/12	6/5/12 15:53	PJG
Aroclor-1242 [1]	ND	0.98	mg/Kg	5		SW-846 8082A	6/4/12	6/5/12 15:53	PJG
Aroclor-1248 [1]	ND	0.98	mg/Kg	5		SW-846 8082A	6/4/12	6/5/12 15:53	PJG
Aroclor-1254 [2]	2.3	0.98	mg/Kg	5	O-04, P-01	SW-846 8082A	6/4/12	6/5/12 15:53	PJG
Aroclor-1260 [1]	ND	0.98	mg/Kg	5		SW-846 8082A	6/4/12	6/5/12 15:53	PJG
Aroclor-1262 [1]	ND	0.98	mg/Kg	5		SW-846 8082A	6/4/12	6/5/12 15:53	PJG
Aroclor-1268 [1]	ND	0.98	mg/Kg	5		SW-846 8082A	6/4/12	6/5/12 15:53	PJG

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	77.4	30-150		6/5/12 15:53
Decachlorobiphenyl [2]	84.0	30-150		6/5/12 15:53
Tetrachloro-m-xylene [1]	61.3	30-150		6/5/12 15:53
Tetrachloro-m-xylene [2]	64.9	30-150		6/5/12 15:53

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12F0045-01 [PH-CBK-542]	B052688	0.512	10.0	06/04/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052688 - SW-846 3540C										
Blank (B052688-BLK1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Aroclor-1016	ND	0.20	mg/Kg							
Aroclor-1016 [2C]	ND	0.20	mg/Kg							
Aroclor-1221	ND	0.20	mg/Kg							
Aroclor-1221 [2C]	ND	0.20	mg/Kg							
Aroclor-1232	ND	0.20	mg/Kg							
Aroclor-1232 [2C]	ND	0.20	mg/Kg							
Aroclor-1242	ND	0.20	mg/Kg							
Aroclor-1242 [2C]	ND	0.20	mg/Kg							
Aroclor-1248	ND	0.20	mg/Kg							
Aroclor-1248 [2C]	ND	0.20	mg/Kg							
Aroclor-1254	ND	0.20	mg/Kg							
Aroclor-1254 [2C]	ND	0.20	mg/Kg							
Aroclor-1260	ND	0.20	mg/Kg							
Aroclor-1260 [2C]	ND	0.20	mg/Kg							
Aroclor-1262	ND	0.20	mg/Kg							
Aroclor-1262 [2C]	ND	0.20	mg/Kg							
Aroclor-1268	ND	0.20	mg/Kg							
Aroclor-1268 [2C]	ND	0.20	mg/Kg							
Surrogate: Decachlorobiphenyl	*4.18*		mg/Kg	4.00		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.50*		mg/Kg	4.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*3.93*		mg/Kg	4.00		98.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*4.11*		mg/Kg	4.00		103	30-150			
LCS (B052688-BS1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Aroclor-1016	3.7	0.20	mg/Kg	4.00		92.3	40-140			
Aroclor-1016 [2C]	3.6	0.20	mg/Kg	4.00		90.9	40-140			
Aroclor-1260	3.8	0.20	mg/Kg	4.00		94.2	40-140			
Aroclor-1260 [2C]	3.8	0.20	mg/Kg	4.00		96.1	40-140			
Surrogate: Decachlorobiphenyl	*3.94*		mg/Kg	4.00		98.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.19*		mg/Kg	4.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*3.51*		mg/Kg	4.00		87.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.63*		mg/Kg	4.00		90.8	30-150			
LCS Dup (B052688-BSD1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Aroclor-1016	3.8	0.20	mg/Kg	4.00		95.3	40-140	3.13	30	
Aroclor-1016 [2C]	3.9	0.20	mg/Kg	4.00		96.7	40-140	6.12	30	
Aroclor-1260	3.9	0.20	mg/Kg	4.00		97.3	40-140	3.16	30	
Aroclor-1260 [2C]	4.0	0.20	mg/Kg	4.00		99.3	40-140	3.31	30	
Surrogate: Decachlorobiphenyl	*4.01*		mg/Kg	4.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*4.29*		mg/Kg	4.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*3.72*		mg/Kg	4.00		93.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*3.86*		mg/Kg	4.00		96.6	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
O-04	Sample fingerprint does not match standard exactly. Sample was quantitated against the closest matching standard.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. The higher result was reported.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Email: info@contestlabs.com
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CHAIN OF CUSTODY RECORD

12F0045

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Portland Maine
Attention: Amy Wallace
Project Location: Cambridge MA
Sampled By: AW/JAR

Telephone:
Project #
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ● EMAIL ○ WEBSITE
Fax #
Email: awallace@woodardcurran.com jhamel@
Format: ● PDF ● EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs 8082 soxhlet	# of Containers	** Preservation	***Container Code
-01	PH - CBK - 542	6/1/12	1415		X	Gw	U	X	1	1	A

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments: R.L < 1mg/kg
* Please HOLD until W&C instructs otherwise

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 6/1/12 1430
Received by: (signature)	Date/Time: 6-1-12 1430
Relinquished by: (signature)	Date/Time: 6-1-12 1750
Received by: (signature)	Date/Time:

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: <1.0
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** CEC **DATE:** 6/1/12

1) Was the chain(s) of custody relinquished and signed? **Yes** **No** **No CoC Included**

2) Does the chain agree with the samples? **Yes** **No**

If not, explain:

3) Are all the samples in good condition? **Yes** **No**

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? **Yes** **No** **N/A**

Temperature °C by Temp blank _____ Temperature °C by Temp gun 6.0

5) Are there Dissolved samples for the lab to filter? **Yes** **No**

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? **Yes** **No**

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 14

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	1
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12F0045
Project Location: Cambridge MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12F0045-01

Matrices: Caulk

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☐ Yes	☑ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 06/05/12

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June 6, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Harv. Univ. Pound Hall
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12F0081

Enclosed are results of analyses for samples received by the laboratory on June 4, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 6/6/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12F0081

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

PROJECT LOCATION: Harv. Univ. Pound Hall

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-543	12F0081-01	Concrete		SW-846 8082A	
PH-VBC-544	12F0081-02	Concrete		SW-846 8082A	
PH-VBC-545	12F0081-03	Concrete		SW-846 8082A	
PH-VBC-546	12F0081-04	Concrete		SW-846 8082A	
PH-VBC-547	12F0081-05	Concrete		SW-846 8082A	
PH-VBC-548	12F0081-06	Concrete		SW-846 8082A	
PH-VBC-549	12F0081-07	Concrete		SW-846 8082A	
PH-VBC-550	12F0081-08	Concrete		SW-846 8082A	
PH-VBCD-551	12F0081-09	Concrete		SW-846 8082A	
PH-CBC-553	12F0081-10	Concrete		SW-846 8082A	
PH-CBC-554	12F0081-11	Concrete		SW-846 8082A	
PH-CBC-555	12F0081-12	Concrete		SW-846 8082A	
PH-CBC-556	12F0081-13	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-VBC-543 | Sampled: 6/2/2012 12:30

Sample ID: 12F0081-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:43	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:43	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:43	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:43	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:43	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:43	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:43	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:43	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		6/5/12 18:43
Decachlorobiphenyl [2]	110	30-150		6/5/12 18:43
Tetrachloro-m-xylene [1]	96.6	30-150		6/5/12 18:43
Tetrachloro-m-xylene [2]	101	30-150		6/5/12 18:43

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-VBC-544 | Sampled: 6/2/2012 12:35

Sample ID: 12F0081-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:55	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:55	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:55	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:55	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:55	JMB
Aroclor-1254 [1]	0.18	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:55	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:55	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:55	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 18:55	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.7	30-150		6/5/12 18:55
Decachlorobiphenyl [2]	107	30-150		6/5/12 18:55
Tetrachloro-m-xylene [1]	93.0	30-150		6/5/12 18:55
Tetrachloro-m-xylene [2]	97.6	30-150		6/5/12 18:55

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-VBC-545 | Sampled: 6/2/2012 12:41

Sample ID: 12F0081-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:08	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:08	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:08	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:08	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:08	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:08	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:08	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:08	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	119	30-150		6/5/12 19:08
Decachlorobiphenyl [2]	129	30-150		6/5/12 19:08
Tetrachloro-m-xylene [1]	110	30-150		6/5/12 19:08
Tetrachloro-m-xylene [2]	117	30-150		6/5/12 19:08

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-VBC-546 | Sampled: 6/2/2012 12:50

Sample ID: 12F0081-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:21	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:21	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:21	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:21	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:21	JMB
Aroclor-1254 [1]	0.16	0.087	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:21	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:21	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:21	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		6/5/12 19:21
Decachlorobiphenyl [2]	114	30-150		6/5/12 19:21
Tetrachloro-m-xylene [1]	98.4	30-150		6/5/12 19:21
Tetrachloro-m-xylene [2]	104	30-150		6/5/12 19:21

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Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-VBC-547
Sampled: 6/4/2012 08:50

Sample ID: 12F0081-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:34	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:34	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:34	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:34	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:34	JMB
Aroclor-1254 [1]	0.54	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:34	JMB
Aroclor-1260 [2]	0.52	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:34	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:34	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	100	30-150		6/5/12 19:34
Decachlorobiphenyl [2]	108	30-150		6/5/12 19:34
Tetrachloro-m-xylene [1]	92.4	30-150		6/5/12 19:34
Tetrachloro-m-xylene [2]	96.9	30-150		6/5/12 19:34

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-VBC-548 | Sampled: 6/4/2012 08:55

Sample ID: 12F0081-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:47	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:47	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:47	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:47	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:47	JMB
Aroclor-1254 [1]	0.37	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:47	JMB
Aroclor-1260 [2]	0.39	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:47	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:47	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 19:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.4	30-150		6/5/12 19:47
Decachlorobiphenyl [2]	103	30-150		6/5/12 19:47
Tetrachloro-m-xylene [1]	88.7	30-150		6/5/12 19:47
Tetrachloro-m-xylene [2]	93.0	30-150		6/5/12 19:47

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

Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-VBC-549 | Sampled: 6/4/2012 09:00

Sample ID: 12F0081-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:38	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:38	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:38	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:38	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:38	JMB
Aroclor-1254 [1]	0.52	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:38	JMB
Aroclor-1260 [2]	0.70	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:38	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:38	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	103	30-150		6/5/12 20:38
Decachlorobiphenyl [2]	113	30-150		6/5/12 20:38
Tetrachloro-m-xylene [1]	98.6	30-150		6/5/12 20:38
Tetrachloro-m-xylene [2]	105	30-150		6/5/12 20:38

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

Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-VBC-550
Sampled: 6/4/2012 10:50

Sample ID: 12F0081-08

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:51	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:51	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:51	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:51	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:51	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:51	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:51	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:51	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 20:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.9	30-150		6/5/12 20:51
Decachlorobiphenyl [2]	110	30-150		6/5/12 20:51
Tetrachloro-m-xylene [1]	88.0	30-150		6/5/12 20:51
Tetrachloro-m-xylene [2]	92.8	30-150		6/5/12 20:51

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Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-VBCD-551
Sampled: 6/4/2012 10:55

Sample ID: 12F0081-09

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 21:03	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 21:03	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 21:03	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 21:03	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 21:03	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 21:03	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 21:03	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 21:03	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/4/12	6/5/12 21:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	104	30-150		6/5/12 21:03
Decachlorobiphenyl [2]	114	30-150		6/5/12 21:03
Tetrachloro-m-xylene [1]	101	30-150		6/5/12 21:03
Tetrachloro-m-xylene [2]	107	30-150		6/5/12 21:03

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Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-CBC-553
Sampled: 6/4/2012 12:30

Sample ID: 12F0081-10

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	6/4/12	6/6/12 9:06	MJC
Aroclor-1221 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	6/4/12	6/6/12 9:06	MJC
Aroclor-1232 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	6/4/12	6/6/12 9:06	MJC
Aroclor-1242 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	6/4/12	6/6/12 9:06	MJC
Aroclor-1248 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	6/4/12	6/6/12 9:06	MJC
Aroclor-1254 [1]	4.6	0.87	mg/Kg	10		SW-846 8082A	6/4/12	6/6/12 9:06	MJC
Aroclor-1260 [2]	6.8	0.87	mg/Kg	10		SW-846 8082A	6/4/12	6/6/12 9:06	MJC
Aroclor-1262 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	6/4/12	6/6/12 9:06	MJC
Aroclor-1268 [1]	ND	0.87	mg/Kg	10		SW-846 8082A	6/4/12	6/6/12 9:06	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	116	30-150		6/6/12 9:06
Decachlorobiphenyl [2]	118	30-150		6/6/12 9:06
Tetrachloro-m-xylene [1]	106	30-150		6/6/12 9:06
Tetrachloro-m-xylene [2]	110	30-150		6/6/12 9:06

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Project Location: Harv. Univ. Pound Hall
Sample Description:
Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-CBC-554
Sampled: 6/4/2012 12:50

Sample ID: 12F0081-11

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:18	MJC
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:18	MJC
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:18	MJC
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:18	MJC
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:18	MJC
Aroclor-1254 [1]	2.1	0.50	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:18	MJC
Aroclor-1260 [2]	3.1	0.50	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:18	MJC
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:18	MJC
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:18	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.3	30-150		6/6/12 9:18
Decachlorobiphenyl [2]	102	30-150		6/6/12 9:18
Tetrachloro-m-xylene [1]	89.7	30-150		6/6/12 9:18
Tetrachloro-m-xylene [2]	93.3	30-150		6/6/12 9:18

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-CBC-555 | Sampled: 6/4/2012 12:35

Sample ID: 12F0081-12

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:31	MJC
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:31	MJC
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:31	MJC
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:31	MJC
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:31	MJC
Aroclor-1254 [1]	1.6	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:31	MJC
Aroclor-1260 [2]	3.4	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:31	MJC
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:31	MJC
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:31	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.5	30-150		6/6/12 9:31
Decachlorobiphenyl [2]	98.3	30-150		6/6/12 9:31
Tetrachloro-m-xylene [1]	85.1	30-150		6/6/12 9:31
Tetrachloro-m-xylene [2]	88.4	30-150		6/6/12 9:31

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Project Location: Harv. Univ. Pound Hall | Sample Description: | Work Order: 12F0081

Date Received: 6/4/2012

Field Sample #: PH-CBC-556 | Sampled: 6/4/2012 12:45

Sample ID: 12F0081-13

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:44	MJC
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:44	MJC
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:44	MJC
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:44	MJC
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:44	MJC
Aroclor-1254 [1]	1.9	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:44	MJC
Aroclor-1260 [2]	2.1	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:44	MJC
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:44	MJC
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	6/4/12	6/6/12 9:44	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.3	30-150		6/6/12 9:44
Decachlorobiphenyl [2]	102	30-150		6/6/12 9:44
Tetrachloro-m-xylene [1]	90.9	30-150		6/6/12 9:44
Tetrachloro-m-xylene [2]	94.2	30-150		6/6/12 9:44

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12F0081-01 [PH-VBC-543]	B052692	2.10	10.0	06/04/12
12F0081-02 [PH-VBC-544]	B052692	2.20	10.0	06/04/12
12F0081-03 [PH-VBC-545]	B052692	2.00	10.0	06/04/12
12F0081-04 [PH-VBC-546]	B052692	2.30	10.0	06/04/12
12F0081-05 [PH-VBC-547]	B052692	2.00	10.0	06/04/12
12F0081-06 [PH-VBC-548]	B052692	2.20	10.0	06/04/12
12F0081-07 [PH-VBC-549]	B052692	2.20	10.0	06/04/12
12F0081-08 [PH-VBC-550]	B052692	2.00	10.0	06/04/12
12F0081-09 [PH-VBCD-551]	B052692	2.20	10.0	06/04/12
12F0081-10 [PH-CBC-553]	B052692	2.30	10.0	06/04/12
12F0081-11 [PH-CBC-554]	B052692	2.00	10.0	06/04/12
12F0081-12 [PH-CBC-555]	B052692	2.10	10.0	06/04/12
12F0081-13 [PH-CBC-556]	B052692	2.10	10.0	06/04/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052692 - SW-846 3540C										
Blank (B052692-BLK1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.857*		mg/Kg	1.00		85.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.890*		mg/Kg	1.00		89.0	30-150			
LCS (B052692-BS1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		110	40-140			
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		109	40-140			
Aroclor-1260	0.27	0.10	mg/Kg	0.250		108	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140			
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.942*		mg/Kg	1.00		94.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.986*		mg/Kg	1.00		98.6	30-150			
LCS Dup (B052692-BSD1)				Prepared: 06/04/12 Analyzed: 06/05/12						
Aroclor-1016	0.27	0.10	mg/Kg	0.250		109	40-140	0.722	30	
Aroclor-1016 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140	0.626	30	
Aroclor-1260	0.28	0.10	mg/Kg	0.250		110	40-140	1.60	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		111	40-140	1.95	30	
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.920*		mg/Kg	1.00		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.962*		mg/Kg	1.00		96.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052692 - SW-846 3540C										
Matrix Spike (B052692-MS1)		**Source: 12F0081-01**		Prepared: 06/04/12 Analyzed: 06/05/12						
Aroclor-1016	0.25	0.095	mg/Kg	0.238	0.0	105	40-140			
Aroclor-1016 [2C]	0.25	0.095	mg/Kg	0.238	0.0	106	40-140			
Aroclor-1260	0.25	0.095	mg/Kg	0.238	0.0	106	40-140			
Aroclor-1260 [2C]	0.25	0.095	mg/Kg	0.238	0.0	105	40-140			
Surrogate: Decachlorobiphenyl	*0.918*		mg/Kg	0.952		96.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.986*		mg/Kg	0.952		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.835*		mg/Kg	0.952		87.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.886*		mg/Kg	0.952		93.1	30-150			
Matrix Spike Dup (B052692-MSD1)		**Source: 12F0081-01**		Prepared: 06/04/12 Analyzed: 06/05/12						
Aroclor-1016	0.27	0.095	mg/Kg	0.238	0.0	112	40-140	6.04	50	
Aroclor-1016 [2C]	0.27	0.095	mg/Kg	0.238	0.0	114	40-140	6.75	50	
Aroclor-1260	0.27	0.095	mg/Kg	0.238	0.0	112	40-140	5.67	50	
Aroclor-1260 [2C]	0.27	0.095	mg/Kg	0.238	0.0	113	40-140	6.64	50	
Surrogate: Decachlorobiphenyl	*0.977*		mg/Kg	0.952		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	0.952		109	30-150			
Surrogate: Tetrachloro-m-xylene	*0.898*		mg/Kg	0.952		94.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.957*		mg/Kg	0.952		101	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12F0081

Company Name: Woodard + Curran
Address: 41 Hutchins Drive Portland, ME
Attention: J Hamel, A Wallace
Project Location: Harv. Univ Pound Hall
Sampled By: Kim Rinard / Jill Russell

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
~~Fax~~ # jhamel@woodardcurran.com
Email: awallace@ " " " "
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	EPA 8082/3540C PCBs										
01	PH-VBC-543	6/2/12	1230			C	Unk	x										
02	PH-VBC-544	↓	1235			C	↓	↓										
03	PH-VBC-545	↓	1241			C	↓	↓										
04	PH-VBC-546	↓	1250			C	↓	↓										
05	PH-VBC-547	6/4/12	0850			C	↓	↓										
06	PH-VBC-548	↓	0855			C	↓	↓										
07	PH-VBC-549	↓	0900			C	↓	↓										
08	PH-VBC-550	↓	1050			C	↓	↓										
09	PH-VBCD-551	↓	1055			C	Unk	x										

6/2/12 (KAN)

Comments: ① EPA 8082 via 3540C SOXHLET ② RL ≤ 1mg/kg ③ RUSH SAMPLES ON 48-HR TAT. ④ LAW - Thanks for quick response on short notice

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) [signature] (K Rinard)	Date/Time: 6/4/12 1330
Received by: (signature) [signature]	Date/Time: 6/4/12 1330
Relinquished by: (signature) [signature]	Date/Time: 6/4/12 1840
Received by: (signature) [signature] 206	Date/Time: 6/4/12 1840

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☑ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene
NELAC & AIHA Certified
WBE/DBE Certified

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other ____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other ____
C = CONCRETE

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Company Name:
Address:
Attention:
Project Location:
Sampled By:

REFER TO PAGE 1

Project Proposal Provided? (for billing purposes)
☑ yes 20111211 proposal date

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ☑ EMAIL ○ WEBSITE
Fax #
Email:
Format: ☑ PDF ☑ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

REFER TO PAGE 1

ANALYSIS REQUESTED

# of Containers	1
** Preservation	I
***Container Code	G

EPA 8082/3540C Soxhlet

Dissolved Metals
○ Field Filtered
○ Lab to Filter

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	
	~~PH-VBC-PH-CBC-552~~							NO SAMPLE SUBMITTED KR 6/4/12
10	PH-CBC-553	6/4/12	1230			C	Unk	
11	PH-CBC-554	↓	1250			C	↓	
12	PH-CBC-555	↓	1235			C	↓	
13	PH-CBC-556	6/4/12	1245			C	↓	
			6/4/12					

Comments: (5) SEE PAGE 1 FOR INSTRUCTIONS

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other

Relinquished by: (signature)	Date/Time:
[signature]	6/4/12 13:30
Received by: (signature) [signature]	Date/Time: 6/4/12 13:30
Relinquished by: (signature) [signature]	Date/Time: 6/4/12 18:40
Received by: (signature) [signature] 2.6	Date/Time: 6/4/12 18:40

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other: RL ≤ 1mg/kg

Is your project MCP or RCP ?
☑ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # ____

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ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene See affiliate.org for details

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: WF DATE: 6/4/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 2.6

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified AED Date 6/4/12 Time 1840

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	13
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12F0081-01 PH-VBC-543

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.920	0.9654	4.82
Decachlorobiphenyl	0.971	1.046762	7.51

12F0081-02 PH-VBC-544

Analyte	Results		%RPD
Aroclor-1254	0.18	0.1746227	3.03
Surrogates			
Decachlorobiphenyl	0.906	0.9691955	6.74
Tetrachloro-m-xylene	0.845	0.8875136	4.91

12F0081-03 PH-VBC-545

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	1.19	1.291625	8.19
Tetrachloro-m-xylene	1.10	1.171525	6.3

12F0081-04 PH-VBC-546

Analyte	Results		%RPD
Aroclor-1254	0.16	0.1556435	2.76
Surrogates			
Decachlorobiphenyl	0.919	0.9909826	7.54
Tetrachloro-m-xylene	0.855	0.9007087	5.21

12F0081-05 PH-VBC-547

Analyte	Results		%RPD
Aroclor-1254	0.54	0.512575	5.21
Aroclor-1260 [2C]	0.52	0.50724	2.48
Surrogates			
Decachlorobiphenyl	1.00	1.078355	7.54
Tetrachloro-m-xylene	0.924	0.969455	4.8

12F0081-06 PH-VBC-548

Analyte	Results		%RPD
Aroclor-1254	0.37	0.3491045	5.81
Aroclor-1260 [2C]	0.39	0.3823	1.99
Surrogates			
Tetrachloro-m-xylene	0.807	0.845009	4.6
Decachlorobiphenyl	0.876	0.9403272	7.08

12F0081-07 PH-VBC-549

Analyte	Results		%RPD
Aroclor-1254	0.52	0.5027273	3.38
Aroclor-1260 [2C]	0.70	0.68	2.9
Surrogates			
Decachlorobiphenyl	0.941	1.029886	9.02
Tetrachloro-m-xylene	0.896	0.9510182	5.96

12F0081-08 PH-VBC-550

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.969	1.096395	12.3
Tetrachloro-m-xylene	0.880	0.927875	5.3

12F0081-09 PH-VBCD-551

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.949	1.034082	8.58
Tetrachloro-m-xylene	0.916	0.974809	6.22

12F0081-10 PH-CBC-553

Analyte	Results		%RPD
Aroclor-1254	4.6	4.202478	9.03
Aroclor-1260 [2C]	6.8	6.46087	5.11
Surrogates			
Decachlorobiphenyl	1.01	1.025087	1.48
Tetrachloro-m-xylene	0.924	0.953087	3.1

12F0081-11 PH-CBC-554

Analyte	Results		%RPD
Aroclor-1260 [2C]	3.1	3.003225	3.17
Aroclor-1254	2.1	1.828625	13.8
Surrogates			
Decachlorobiphenyl	0.983	1.0175	3.45
Tetrachloro-m-xylene	0.897	0.9328	3.91

12F0081-12 PH-CBC-555

Analyte	Results		%RPD
Aroclor-1254	1.6	1.389905	14.1
Aroclor-1260 [2C]	3.4	3.40931	0.273
Surrogates			
Tetrachloro-m-xylene	0.810	0.842	3.87
Decachlorobiphenyl	0.909	0.9366429	3

12F0081-13 PH-CBC-556

Analyte	Results		%RPD
Aroclor-1254	1.9	1.636024	14.9
Aroclor-1260 [2C]	2.1	2.112643	0.6
Surrogates			
Tetrachloro-m-xylene	0.865	0.8971191	3.65
Decachlorobiphenyl	0.926	0.9747143	5.13

B052692-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.937	1.00285	6.79
Tetrachloro-m-xylene	0.857	0.889755	3.75

B052692-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.27	0.27235	0.867
Aroclor-1260	0.27	0.271025	0.379
Surrogates			
Tetrachloro-m-xylene	0.942	0.985955	4.56
Decachlorobiphenyl	1.00	1.06592	6.38

B052692-BSD1 LCS Dup

Analyte	Results		%RPD
Aroclor-1016	0.27	0.27065	0.24
Aroclor-1260	0.28	0.276365	1.31
Surrogates			
Decachlorobiphenyl	1.03	1.118415	8.23
Tetrachloro-m-xylene	0.920	0.96227	4.49

B052692-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.25	0.2526857	1.07
Aroclor-1260	0.25	0.2510191	0.407
Surrogates			
Decachlorobiphenyl	0.918	0.9861714	7.16
Tetrachloro-m-xylene	0.835	0.8863953	5.97

B052692-MSD1 Matrix Spike Dup

Analyte	Results		%RPD

Aroclor-1016	0.27	0.2703333	0.123
Aroclor-1260	0.27	0.2682619	0.646
Surrogates			
Tetrachloro-m-xylene	0.898	0.9574763	6.41
Decachlorobiphenyl	0.977	1.040629	6.31

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12F0081
Project Location: Harv. Univ. Pound Hall	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12F0081-01 thru 12F0081-13

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 06/06/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 21, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12F0190

Enclosed are results of analyses for samples received by the laboratory on June 6, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 8/21/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12F0190

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

PROJECT LOCATION: Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-558	12F0190-01	Product/Solid		SW-846 8082A	
PH-VBC-559	12F0190-02	Product/Solid		SW-846 8082A	
PH-VBC-560	12F0190-03	Product/Solid		SW-846 8082A	
PH-VBC-561	12F0190-04	Product/Solid		SW-846 8082A	
PH-VBC-562	12F0190-05	Product/Solid		SW-846 8082A	
PH-VBC-563	12F0190-06	Product/Solid		SW-846 8082A	
PH-VBCD-564	12F0190-07	Product/Solid		SW-846 8082A	
PH-VBC-565	12F0190-08	Product/Solid		SW-846 8082A	
PH-VBC-566	12F0190-09	Product/Solid		SW-846 8082A	
PH-VBC-567	12F0190-10	Product/Solid		SW-846 8082A	
PH-VBC-569	12F0190-11	Product/Solid		SW-846 8082A	
PH-VBC-570	12F0190-12	Product/Solid		SW-846 8082A	
PH-VBC-571	12F0190-13	Product/Solid		SW-846 8082A	
PH-VBC-572	12F0190-14	Product/Solid		SW-846 8082A	
PH-VBC-573	12F0190-15	Product/Solid		SW-846 8082A	
PH-VBC-574	12F0190-16	Product/Solid		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT - 08/21/2012 - Sample 12F0190-07 ID revised per clients request.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Meghan E. Kelley
Project Chemist

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-558 | Sampled: 6/6/2012 08:30

Sample ID: 12F0190-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:16	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:16	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:16	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:16	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:16	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:16	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:16	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:16	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	97.9	30-150		6/7/12 17:16
Decachlorobiphenyl [2]	108	30-150		6/7/12 17:16
Tetrachloro-m-xylene [1]	95.7	30-150		6/7/12 17:16
Tetrachloro-m-xylene [2]	99.8	30-150		6/7/12 17:16

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-559 | Sampled: 6/6/2012 08:50

Sample ID: 12F0190-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:28	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:28	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:28	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:28	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:28	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:28	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:28	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:28	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	93.3	30-150		6/7/12 17:28
Decachlorobiphenyl [2]	105	30-150		6/7/12 17:28
Tetrachloro-m-xylene [1]	98.7	30-150		6/7/12 17:28
Tetrachloro-m-xylene [2]	104	30-150		6/7/12 17:28

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-560 | Sampled: 6/6/2012 08:55

Sample ID: 12F0190-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:41	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:41	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:41	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:41	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:41	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:41	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:41	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:41	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	86.1	30-150		6/7/12 17:41
Decachlorobiphenyl [2]	95.5	30-150		6/7/12 17:41
Tetrachloro-m-xylene [1]	90.6	30-150		6/7/12 17:41
Tetrachloro-m-xylene [2]	94.6	30-150		6/7/12 17:41

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-561 | Sampled: 6/6/2012 09:05

Sample ID: 12F0190-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:54	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:54	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:54	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:54	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:54	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:54	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:54	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:54	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 17:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	81.8	30-150		6/7/12 17:54
Decachlorobiphenyl [2]	89.3	30-150		6/7/12 17:54
Tetrachloro-m-xylene [1]	83.8	30-150		6/7/12 17:54
Tetrachloro-m-xylene [2]	87.4	30-150		6/7/12 17:54

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-562 | Sampled: 6/6/2012 09:10

Sample ID: 12F0190-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:07	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:07	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:07	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:07	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:07	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:07	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:07	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:07	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	84.5	30-150		6/7/12 18:07
Decachlorobiphenyl [2]	93.7	30-150		6/7/12 18:07
Tetrachloro-m-xylene [1]	90.6	30-150		6/7/12 18:07
Tetrachloro-m-xylene [2]	94.8	30-150		6/7/12 18:07

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-563 | Sampled: 6/6/2012 09:15

Sample ID: 12F0190-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:20	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:20	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:20	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:20	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:20	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:20	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:20	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:20	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.2	30-150		6/7/12 18:20
Decachlorobiphenyl [2]	106	30-150		6/7/12 18:20
Tetrachloro-m-xylene [1]	95.4	30-150		6/7/12 18:20
Tetrachloro-m-xylene [2]	101	30-150		6/7/12 18:20

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBCD-564 | Sampled: 6/6/2012 09:20

Sample ID: 12F0190-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:32	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:32	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:32	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:32	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:32	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:32	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:32	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:32	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	98.5	30-150		6/7/12 18:32
Decachlorobiphenyl [2]	107	30-150		6/7/12 18:32
Tetrachloro-m-xylene [1]	99.6	30-150		6/7/12 18:32
Tetrachloro-m-xylene [2]	106	30-150		6/7/12 18:32

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-565 | Sampled: 6/6/2012 09:25

Sample ID: 12F0190-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:45	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:45	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:45	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:45	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:45	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:45	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:45	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:45	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.0	30-150		6/7/12 18:45
Decachlorobiphenyl [2]	105	30-150		6/7/12 18:45
Tetrachloro-m-xylene [1]	101	30-150		6/7/12 18:45
Tetrachloro-m-xylene [2]	107	30-150		6/7/12 18:45

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-566 | Sampled: 6/6/2012 09:30

Sample ID: 12F0190-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:58	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:58	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:58	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:58	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:58	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:58	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:58	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:58	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 18:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.5	30-150		6/7/12 18:58
Decachlorobiphenyl [2]	104	30-150		6/7/12 18:58
Tetrachloro-m-xylene [1]	91.3	30-150		6/7/12 18:58
Tetrachloro-m-xylene [2]	95.7	30-150		6/7/12 18:58

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-567 | Sampled: 6/6/2012 09:35

Sample ID: 12F0190-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 19:49	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 19:49	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 19:49	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 19:49	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 19:49	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 19:49	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 19:49	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 19:49	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 19:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	91.7	30-150		6/7/12 19:49
Decachlorobiphenyl [2]	100	30-150		6/7/12 19:49
Tetrachloro-m-xylene [1]	92.0	30-150		6/7/12 19:49
Tetrachloro-m-xylene [2]	96.0	30-150		6/7/12 19:49

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-569 | Sampled: 6/6/2012 10:20

Sample ID: 12F0190-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:02	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:02	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:02	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:02	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:02	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:02	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:02	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:02	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	94.1	30-150		6/7/12 20:02
Decachlorobiphenyl [2]	103	30-150		6/7/12 20:02
Tetrachloro-m-xylene [1]	90.8	30-150		6/7/12 20:02
Tetrachloro-m-xylene [2]	96.6	30-150		6/7/12 20:02

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

Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-570 | Sampled: 6/6/2012 10:50

Sample ID: 12F0190-12

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:15	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:15	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:15	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:15	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:15	JMB
Aroclor-1254 [1]	0.38	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:15	JMB
Aroclor-1260 [1]	0.17	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:15	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:15	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	95.1	30-150		6/7/12 20:15
Decachlorobiphenyl [2]	104	30-150		6/7/12 20:15
Tetrachloro-m-xylene [1]	92.5	30-150		6/7/12 20:15
Tetrachloro-m-xylene [2]	98.6	30-150		6/7/12 20:15

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-571 | Sampled: 6/6/2012 11:05

Sample ID: 12F0190-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/6/12	6/8/12 8:47	JMB
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/6/12	6/8/12 8:47	JMB
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/6/12	6/8/12 8:47	JMB
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/6/12	6/8/12 8:47	JMB
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/6/12	6/8/12 8:47	JMB
Aroclor-1254 [1]	0.93	0.45	mg/Kg	5		SW-846 8082A	6/6/12	6/8/12 8:47	JMB
Aroclor-1260 [1]	1.9	0.45	mg/Kg	5		SW-846 8082A	6/6/12	6/8/12 8:47	JMB
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/6/12	6/8/12 8:47	JMB
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/6/12	6/8/12 8:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	102	30-150		6/8/12 8:47
Decachlorobiphenyl [2]	104	30-150		6/8/12 8:47
Tetrachloro-m-xylene [1]	94.3	30-150		6/8/12 8:47
Tetrachloro-m-xylene [2]	95.9	30-150		6/8/12 8:47

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-572 | Sampled: 6/6/2012 12:30

Sample ID: 12F0190-14

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:40	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:40	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:40	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:40	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:40	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:40	JMB
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:40	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:40	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	96.5	30-150		6/7/12 20:40
Decachlorobiphenyl [2]	106	30-150		6/7/12 20:40
Tetrachloro-m-xylene [1]	90.9	30-150		6/7/12 20:40
Tetrachloro-m-xylene [2]	96.4	30-150		6/7/12 20:40

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-573 | Sampled: 6/6/2012 12:45

Sample ID: 12F0190-15

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:53	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:53	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:53	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:53	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:53	JMB
Aroclor-1254 [1]	0.60	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:53	JMB
Aroclor-1260 [1]	0.45	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:53	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:53	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 20:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	88.1	30-150		6/7/12 20:53
Decachlorobiphenyl [2]	97.5	30-150		6/7/12 20:53
Tetrachloro-m-xylene [1]	86.3	30-150		6/7/12 20:53
Tetrachloro-m-xylene [2]	91.6	30-150		6/7/12 20:53

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Project Location: Cambridge, MA | Sample Description: | Work Order: 12F0190

Date Received: 6/6/2012

Field Sample #: PH-VBC-574 | Sampled: 6/6/2012 13:15

Sample ID: 12F0190-16

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 21:06	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 21:06	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 21:06	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 21:06	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 21:06	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 21:06	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 21:06	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 21:06	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	6/6/12	6/7/12 21:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	99.3	30-150		6/7/12 21:06
Decachlorobiphenyl [2]	110	30-150		6/7/12 21:06
Tetrachloro-m-xylene [1]	98.3	30-150		6/7/12 21:06
Tetrachloro-m-xylene [2]	105	30-150		6/7/12 21:06

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12F0190-01 [PH-VBC-558]	B052876	2.30	10.0	06/06/12
12F0190-02 [PH-VBC-559]	B052876	2.30	10.0	06/06/12
12F0190-03 [PH-VBC-560]	B052876	2.30	10.0	06/06/12
12F0190-04 [PH-VBC-561]	B052876	2.10	10.0	06/06/12
12F0190-05 [PH-VBC-562]	B052876	2.10	10.0	06/06/12
12F0190-06 [PH-VBC-563]	B052876	2.20	10.0	06/06/12
12F0190-07 [PH-VBCD-564]	B052876	2.00	10.0	06/06/12
12F0190-08 [PH-VBC-565]	B052876	2.10	10.0	06/06/12
12F0190-09 [PH-VBC-566]	B052876	2.00	10.0	06/06/12
12F0190-10 [PH-VBC-567]	B052876	2.20	10.0	06/06/12
12F0190-11 [PH-VBC-569]	B052876	2.20	10.0	06/06/12
12F0190-12 [PH-VBC-570]	B052876	2.30	10.0	06/06/12
12F0190-13 [PH-VBC-571]	B052876	2.20	10.0	06/06/12
12F0190-14 [PH-VBC-572]	B052876	2.20	10.0	06/06/12
12F0190-15 [PH-VBC-573]	B052876	2.00	10.0	06/06/12
12F0190-16 [PH-VBC-574]	B052876	2.30	10.0	06/06/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B052876 - SW-846 3540C										
Blank (B052876-BLK1)				Prepared: 06/06/12 Analyzed: 06/07/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*0.963*		mg/Kg	1.00		96.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.958*		mg/Kg	1.00		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.997*		mg/Kg	1.00		99.7	30-150			
LCS (B052876-BS1)				Prepared: 06/06/12 Analyzed: 06/07/12						
Aroclor-1016	0.30	0.10	mg/Kg	0.250		120	40-140			
Aroclor-1016 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140			
Aroclor-1260	0.30	0.10	mg/Kg	0.250		121	40-140			
Aroclor-1260 [2C]	0.27	0.10	mg/Kg	0.250		108	40-140			
Surrogate: Decachlorobiphenyl	*0.977*		mg/Kg	1.00		97.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.08*		mg/Kg	1.00		108	30-150			
Surrogate: Tetrachloro-m-xylene	*0.964*		mg/Kg	1.00		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101	30-150			
LCS Dup (B052876-BSD1)				Prepared: 06/06/12 Analyzed: 06/07/12						
Aroclor-1016	0.31	0.10	mg/Kg	0.250		125	40-140	4.80	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		115	40-140	3.20	30	
Aroclor-1260	0.32	0.10	mg/Kg	0.250		126	40-140	4.34	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		112	40-140	3.72	30	
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2013
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2013
FL	Florida Department of Health	E871027 NELAP	06/30/2013
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2013
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

12F0190

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Portland Maine
Attention: Amy Wallace
Project Location: Cambridge, MA
Sampled By: Jill Russell

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ● EMAIL ○ WEBSITE
Fax # jhamel@woodardcurran.com
Email: aWallace@ " JRussell@ "
Format: ● PDF ● EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs 8082 soxhlet
01	PH-VBC-558	6/6/12	0830		X	concrete	L	
02	PH-VBC-559		0850					
03	PH-VBC-560		0855					
04	PH-VBC-561		0905					
05	PH-VBC-562		0910					
06	PH-VBC-563		0915					
07	PH-VBCD-564		0920					
08	PH-VBC-565		0925					
09	PH-VBC-566		0930					
10	PH-VBC-567	6/6/12	0935		X	concrete	L	

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments: PCBs 8082 soxhlet
48 hr TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature]	6/6/12
Received by: (signature) [signature]	Date/Time: 6/6/12 230
Relinquished by: (signature) [signature]	Date/Time: 6/6/12 315
Received by: (signature) [signature] 5.9	Date/Time: 6/6/12 1715

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: R.L. < 1.0mg/Kg
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Portland maine
Attention: Amy Wallace
Project Location: Combonday, MA
Sampled By: Jill Russell

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ● EMAIL ○ WEBSITE
Fax #
Email: jhamel@woodardcurran.com awallace@ " jrussell@ "
Format: ● PDF ● EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED: PCBs 8082 Soxhlet

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	# of Containers	** Preservation	***Container Code
11	PH-VBC-569	6/6/12	1020		X	concrete	L	1		A
12	PH-VBC-570		1050							
13	PH-VBC-571		1105							
14	PH-VBC-572		1230							
15	PH-VBC-573		1245							
16	PH-VBC-574	6/6/12	1315		X	concrete	L			

Comments: PCBs 8082 Soxhlet
48 hr TAT

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Relinquished by: (signature)	Date/Time: 6/6/12	
Received by: (signature)	Date/Time: 6/6/12 2300	
Relinquished by: (signature)	Date/Time: 6/7/12 0916	
Received by: (signature)	Date/Time: 6/7/12 1015	

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: R.L. < 1.0 mg/kg
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

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East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** WF **DATE:** 6/6/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☒ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☒

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.9

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	16
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____
Bisulfate _____ # DI Water _____
Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

12F0123-21 0604JR-21

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.792	0.8350429	5.29
Decachlorobiphenyl	0.849	1.0004	16.4

12F0190-01 PH-VBC-558

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.851	0.9419827	10.1
Tetrachloro-m-xylene	0.832	0.8679653	4.23

12F0190-02 PH-VBC-559

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.811	0.9136044	11.9
Tetrachloro-m-xylene	0.858	0.901713	4.97

12F0190-03 PH-VBC-560

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.749	0.8308174	10.4
Tetrachloro-m-xylene	0.787	0.8226913	4.43

12F0190-04 PH-VBC-561

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.779	0.8504715	8.77
Tetrachloro-m-xylene	0.798	0.8328429	4.27

12F0190-05 PH-VBC-562

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.805	0.8923619	10.3
Tetrachloro-m-xylene	0.863	0.9028858	4.52

12F0190-06 PH-VBC-563

Analyte	Results		%RPD
Surrogates			
Tetrachloro-m-xylene	0.868	0.9140454	5.17
Decachlorobiphenyl	0.874	0.9640954	9.8

12F0190-07 PH-VBC-564

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.985	1.07463	8.7
Tetrachloro-m-xylene	0.996	1.05586	5.83

12F0190-08 PH-VBC-565

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.915	1.002319	9.11
Tetrachloro-m-xylene	0.960	1.017476	5.81

12F0190-09 PH-VBC-566

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.945	1.04025	9.6
Tetrachloro-m-xylene	0.913	0.95675	4.68

12F0190-10 PH-VBC-567

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.834	0.9117591	8.91
Tetrachloro-m-xylene	0.836	0.8723045	4.25

12F0190-11 PH-VBC-569

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.856	0.93345	8.66
Tetrachloro-m-xylene	0.825	0.8782909	6.26

12F0190-12 PH-VBC-570

Analyte	Results		%RPD
Aroclor-1254	0.38	0.3506348	8.04
Aroclor-1260	0.17	0.1470783	14.5
Surrogates			
Decachlorobiphenyl	0.827	0.9043957	8.94
Tetrachloro-m-xylene	0.804	0.8573305	6.42

12F0190-13 PH-VBC-571

Analyte	Results		%RPD
Aroclor-1260	1.9	1.634841	15
Aroclor-1254	0.93	0.78525	16.9
Surrogates			
Decachlorobiphenyl	0.930	0.945	1.6
Tetrachloro-m-xylene	0.857	0.8715909	1.69

12F0190-14 PH-VBC-572

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.877	0.96595	9.65
Tetrachloro-m-xylene	0.827	0.8767318	5.84

12F0190-15 PH-VBC-573

Analyte	Results		%RPD
Aroclor-1254	0.60	0.55688	7.45
Aroclor-1260	0.45	0.408515	9.66
Surrogates			
Decachlorobiphenyl	0.881	0.974785	10.1
Tetrachloro-m-xylene	0.863	0.915595	5.91

12F0190-16 PH-VBC-574

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.863	0.959413	10.6
Tetrachloro-m-xylene	0.854	0.9154261	6.94

B052876-BLK1 Blank

Analyte	Results		%RPD
Surrogates			
Decachlorobiphenyl	0.963	1.068145	10.4
Tetrachloro-m-xylene	0.958	0.99686	3.98

B052876-BS1 LCS

Analyte	Results		%RPD
Aroclor-1016	0.30	0.27897	7.26
Aroclor-1260	0.30	0.27087	10.2
Surrogates			
Tetrachloro-m-xylene	0.964	1.00791	4.45
Decachlorobiphenyl	0.977	1.082065	10.2

B052876-BSD1 LCS Dup

Analyte	Results		%RPD

Aroclor-1016	0.31	0.28803	7.35
Aroclor-1260	0.32	0.28115	12.9
Surrogates			
Decachlorobiphenyl	1.02	1.12427	9.73
Tetrachloro-m-xylene	1.00	1.051715	5.04

B052876-MS1 Matrix Spike

Analyte	Results		%RPD
Aroclor-1016	0.29	0.2574476	11.9
Aroclor-1260	0.29	0.2551667	12.8
Surrogates			
Decachlorobiphenyl	0.884	0.9694715	9.22
Tetrachloro-m-xylene	0.855	0.9091334	6.14

B052876-MSD1 Matrix Spike Dup

Analyte	Results		%RPD
Aroclor-1016	0.30	0.2627682	13.2
Aroclor-1260	0.28	0.2534409	9.96
Surrogates			
Tetrachloro-m-xylene	0.915	0.9733682	6.18
Decachlorobiphenyl	0.912	0.9927227	8.48

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12F0190
Project Location: Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12F0190-01 thru 12F0190-16

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: M Erickson Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 06/08/12

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

June 11, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12F0243

Enclosed are results of analyses for samples received by the laboratory on June 7, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 6/11/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12F0243

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

PROJECT LOCATION: Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBCQ-552	12F0243-01	Water		SW-846 8082A	
PH-VBCQ-568	12F0243-02	Water		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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

Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0243

Date Received: 6/7/2012

Field Sample #: PH-VBCQ-552
Sampled: 6/7/2012 10:00

Sample ID: 12F0243-01

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 11:48	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 11:48	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 11:48	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 11:48	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 11:48	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 11:48	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 11:48	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 11:48	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 11:48	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	56.3	30-150		6/11/12 11:48
Decachlorobiphenyl [2]	56.1	30-150		6/11/12 11:48
Tetrachloro-m-xylene [1]	84.2	30-150		6/11/12 11:48
Tetrachloro-m-xylene [2]	87.8	30-150		6/11/12 11:48

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0243

Date Received: 6/7/2012

Field Sample #: PH-VBCQ-568
Sampled: 6/7/2012 10:05

Sample ID: 12F0243-02

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 12:01	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 12:01	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 12:01	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 12:01	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 12:01	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 12:01	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 12:01	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 12:01	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/8/12	6/11/12 12:01	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	32.7	30-150		6/11/12 12:01
Decachlorobiphenyl [2]	32.5	30-150		6/11/12 12:01
Tetrachloro-m-xylene [1]	88.1	30-150		6/11/12 12:01
Tetrachloro-m-xylene [2]	91.9	30-150		6/11/12 12:01

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12F0243-01 [PH-VBCQ-552]	B053016	1000	10.0	06/08/12
12F0243-02 [PH-VBCQ-568]	B053016	1000	10.0	06/08/12

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B053016 - SW-846 3510C										
Blank (B053016-BLK1)				Prepared & Analyzed: 06/08/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.47*		µg/L	2.00		73.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.42*		µg/L	2.00		70.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.14*		µg/L	2.00		57.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.20*		µg/L	2.00		59.9	30-150			
LCS (B053016-BS1)				Prepared & Analyzed: 06/08/12						
Aroclor-1016	0.48	0.20	µg/L	0.500		95.6	40-140			
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		100	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.9	40-140			
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		94.9	40-140			
Surrogate: Decachlorobiphenyl	*1.62*		µg/L	2.00		81.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.60*		µg/L	2.00		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.37*		µg/L	2.00		68.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.44*		µg/L	2.00		72.2	30-150			
LCS Dup (B053016-BSD1)				Prepared & Analyzed: 06/08/12						
Aroclor-1016	0.48	0.20	µg/L	0.500		97.0	40-140	1.43	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	1.99	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		92.0	40-140	2.06	20	
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		93.3	40-140	1.68	20	
Surrogate: Decachlorobiphenyl	*1.39*		µg/L	2.00		69.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.37*		µg/L	2.00		68.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.41*		µg/L	2.00		70.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.48*		µg/L	2.00		74.1	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12F0243

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Portland Maine
Attention: Amy Wallace
Project Location: Cambridge, MA
Sampled By: Jill Russell

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ◉ EMAIL ○ WEBSITE
Fax #
Email: jhanne@woodardcurran.com awallace@ jrussell@
Format: ◉ PDF ◉ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs 8082	# of Containers	** Preservation	***Container Code
01	PH-VBCQ-552	6/7/12	1000		X	water	L	X	1	1	A
02	PH-VBCQ-568	6/7/12	1005		X	water	L	X			

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
PCBs 8082
R.L. <0.5ug/L

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Jill Russell	6/7/12 1500
Received by: (signature)	Date/Time:
[illegible]	6-8-12 1500
Relinquished by: (signature)	Date/Time:
[illegible]	6-7-12 1830
Received by: (signature)	Date/Time:
[illegible]	5:36/7 1830

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: R.L. <0.5ug/L
Connecticut:
Other:

Is your project MCP or RCP ?
◉ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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F: 413-525-6405
www.contestlabs.com

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Sample Receipt Checklist

CLIENT NAME: Woodard + Curran **RECEIVED BY:** SD **DATE:** 6/7/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 5.3

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	2	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12F0243
Project Location: Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12F0243-01 thru 12F0243-02

Matrices: Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: [signature] Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 06/11/12

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June 13, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Cambridge
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12F0325

Enclosed are results of analyses for samples received by the laboratory on June 11, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 6/13/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12F0325

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

PROJECT LOCATION: Cambridge

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-CBC-510	12F0325-01	Concrete		SW-846 1311	
				SW-846 8082A	
PH-VBCQ-575	12F0325-02	Water		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Michael A. Erickson
Laboratory Director

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Project Location: Cambridge | Sample Description: | Work Order: 12F0325

Date Received: 6/11/2012

Field Sample #: PH-CBC-510 | Sampled: 5/26/2012 13:40

Sample ID: 12F0325-01

Sample Matrix: Concrete

TCLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 17:06	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 17:06	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 17:06	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 17:06	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 17:06	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 17:06	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 17:06	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 17:06	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 17:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	101	30-150		6/12/12 17:06
Decachlorobiphenyl [2]	100	30-150		6/12/12 17:06
Tetrachloro-m-xylene [1]	87.1	30-150		6/12/12 17:06
Tetrachloro-m-xylene [2]	90.8	30-150		6/12/12 17:06

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Project Location: Cambridge | Sample Description: | Work Order: 12F0325

Date Received: 6/11/2012

Field Sample #: PH-VBCQ-575 | Sampled: 6/11/2012 11:15

Sample ID: 12F0325-02

Sample Matrix: Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 13:46	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 13:46	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 13:46	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 13:46	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 13:46	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 13:46	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 13:46	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 13:46	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	6/12/12	6/12/12 13:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	83.3	30-150		6/12/12 13:46
Decachlorobiphenyl [2]	82.3	30-150		6/12/12 13:46
Tetrachloro-m-xylene [1]	76.5	30-150		6/12/12 13:46
Tetrachloro-m-xylene [2]	79.0	30-150		6/12/12 13:46

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12F0325-02 [PH-VBCQ-575]	B053170	1000	10.0	06/12/12

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 6/11/2012 per SW-846 1311 in Batch B053163**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
12F0325-01 [PH-CBC-510]	B053181	500	5.00	06/12/12

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B053170 - SW-846 3510C										
Blank (B053170-BLK1)				Prepared & Analyzed: 06/12/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.31*		µg/L	2.00		65.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.28*		µg/L	2.00		64.1	30-150			
Surrogate: Tetrachloro-m-xylene	*1.43*		µg/L	2.00		71.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.48*		µg/L	2.00		73.9	30-150			
LCS (B053170-BS1)				Prepared & Analyzed: 06/12/12						
Aroclor-1016	0.38	0.20	µg/L	0.500		76.9	40-140			
Aroclor-1016 [2C]	0.42	0.20	µg/L	0.500		84.4	40-140			
Aroclor-1260	0.38	0.20	µg/L	0.500		76.3	40-140			
Aroclor-1260 [2C]	0.39	0.20	µg/L	0.500		78.4	40-140			
Surrogate: Decachlorobiphenyl	*1.28*		µg/L	2.00		64.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.27*		µg/L	2.00		63.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.38*		µg/L	2.00		69.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.43*		µg/L	2.00		71.3	30-150			
LCS Dup (B053170-BSD1)				Prepared & Analyzed: 06/12/12						
Aroclor-1016	0.44	0.20	µg/L	0.500		87.2	40-140	12.6	20	
Aroclor-1016 [2C]	0.47	0.20	µg/L	0.500		93.2	40-140	9.91	20	
Aroclor-1260	0.42	0.20	µg/L	0.500		83.1	40-140	8.56	20	
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		85.6	40-140	8.83	20	
Surrogate: Decachlorobiphenyl	*1.36*		µg/L	2.00		68.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.35*		µg/L	2.00		67.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.47*		µg/L	2.00		73.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.51*		µg/L	2.00		75.7	30-150			

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QUALITY CONTROL

TCLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B053181 - SW-846 3510C										
Blank (B053181-BLK1)				Prepared & Analyzed: 06/12/12						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.67*		µg/L	2.00		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.66*		µg/L	2.00		83.2	30-150			
Surrogate: Tetrachloro-m-xylene	*1.55*		µg/L	2.00		77.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.62*		µg/L	2.00		81.0	30-150			
LCS (B053181-BS1)				Prepared & Analyzed: 06/12/12						
Aroclor-1016	0.53	0.20	µg/L	0.500		106	40-140			
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		109	40-140			
Aroclor-1260	0.50	0.20	µg/L	0.500		100	40-140			
Aroclor-1260 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Surrogate: Decachlorobiphenyl	*1.84*		µg/L	2.00		91.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.83*		µg/L	2.00		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.80*		µg/L	2.00		89.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.87*		µg/L	2.00		93.7	30-150			
Matrix Spike (B053181-MS1)		**Source: 12F0325-01**		Prepared & Analyzed: 06/12/12						
Aroclor-1016	0.43	0.20	µg/L	0.500	ND	85.4	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500	ND	105	40-140			
Aroclor-1260	0.48	0.20	µg/L	0.500	ND	95.2	40-140			
Aroclor-1260 [2C]	0.46	0.20	µg/L	0.500	ND	91.0	40-140			
Surrogate: Decachlorobiphenyl	*2.04*		µg/L	2.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.02*		µg/L	2.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	*1.67*		µg/L	2.00		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.75*		µg/L	2.00		87.7	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1016	CT,NY,ME,NC,NH
Aroclor-1016	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1016 [2C]	CT,NY,ME,NC,NH
Aroclor-1221	CT,NH,NY,RI,NC,ME
Aroclor-1221	CT,NY,ME,NC,NH
Aroclor-1221 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1221 [2C]	CT,NY,ME,NC,NH
Aroclor-1232	CT,NY,ME,NC,NH
Aroclor-1232	CT,NH,NY,RI,NC,ME
Aroclor-1232 [2C]	CT,NY,ME,NC,NH
Aroclor-1232 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1242	CT,NY,ME,NC,NH
Aroclor-1242	CT,NH,NY,RI,NC,ME
Aroclor-1242 [2C]	CT,NY,ME,NC,NH
Aroclor-1242 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NH,NY,RI,NC,ME
Aroclor-1248	CT,NY,ME,NC,NH
Aroclor-1248 [2C]	CT,NY,ME,NC,NH
Aroclor-1248 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1254	CT,NY,ME,NC,NH
Aroclor-1254	CT,NH,NY,RI,NC,ME
Aroclor-1254 [2C]	CT,NY,ME,NC,NH
Aroclor-1254 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NH,NY,RI,NC,ME
Aroclor-1260	CT,NY,ME,NC,NH
Aroclor-1260 [2C]	CT,NY,ME,NC,NH
Aroclor-1260 [2C]	CT,NH,NY,RI,NC,ME
Aroclor-1262	NC
Aroclor-1262 [2C]	NC
Aroclor-1268	NC
Aroclor-1268 [2C]	NC

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
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Email: info@contestlabs.com
www.contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page____of____

12F0325

Company Name: Woodard + Curran
Address: 41 Hutchins
Portland ME 04102
Attention: Amy Wallace
Project Location: Cambridge
Sampled By: Amy Wallace

Telephone: 2077742112
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email:
Format: ☒ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
☒ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	TCLP PCB	PCB 8082 SAMPLE										
01	PH-CBC-510	5/26/12	13:40		X	conc	L	X											
02	PH-VBCQ-575	6/11/12	11:15		X	water	L		X										

# of Containers
** Preservation
***Container Code

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments:
@ME 6/13/12

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Amy Wallace	6/11/12 1145
Received by: (signature)	Date/Time: 6/11/12 1145
Relinquished by: (signature)	Date/Time: 6/11/12 525
Received by: (signature) 3.7	Date/Time: 6/11/12 1725

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut:
Other:

Is your project MCP or RCP ?
☒ MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

NELAC & AIHA Certified
WBE/DBE Certified

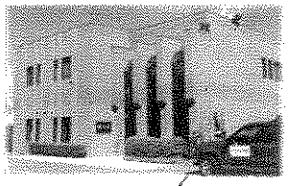
†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Sample Receipt Checklist



CLIENT NAME: Woodard & Curran **RECEIVED BY:** WF **DATE:** 6/11/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.7

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified NA Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	1	8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	2
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials:	# HCl _____	# Methanol _____	Time and Date Frozen:
Doc# 277	# Bisulfate _____	# DI Water _____	
Rev. 2 Sept 2011	# Thiosulfate _____	Unpreserved _____	

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12F0325
Project Location: Cambridge	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12F0325-01 thru 12F0325-02

Matrices: Product/Solid Water

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: Position: Laboratory Director

Printed Name: Michael A. Erickson Date: 06/13/12

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

June 18, 2012

Amy Wallace
Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102

Project Location: Cambridge, MA
Client Job Number:
Project Number: 223868
Laboratory Work Order Number: 12F0486

Enclosed are results of analyses for samples received by the laboratory on June 14, 2012. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Meghan E. Kelley
Project Manager

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

Woodard & Curran - Portland, ME
41 Hutchins Drive
Portland, ME 04102
ATTN: Amy Wallace

REPORT DATE: 6/18/2012

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 223868

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 12F0486

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

PROJECT LOCATION: Cambridge, MA

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
PH-VBC-575	12F0486-01	Concrete		SW-846 8082A	
PH-VBC-576	12F0486-02	Concrete		SW-846 8082A	
PH-VBC-577	12F0486-03	Concrete		SW-846 8082A	
PH-VBC-578	12F0486-04	Concrete		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Daren J. Damboragian
Laboratory Manager

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

Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0486

Date Received: 6/14/2012

Field Sample #: PH-VBC-575
Sampled: 6/14/2012 07:05

Sample ID: 12F0486-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/14/12	6/16/12 7:13	MJC
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/14/12	6/16/12 7:13	MJC
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/14/12	6/16/12 7:13	MJC
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/14/12	6/16/12 7:13	MJC
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/14/12	6/16/12 7:13	MJC
Aroclor-1254 [1]	1.5	0.45	mg/Kg	5		SW-846 8082A	6/14/12	6/16/12 7:13	MJC
Aroclor-1260 [2]	2.1	0.45	mg/Kg	5		SW-846 8082A	6/14/12	6/16/12 7:13	MJC
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/14/12	6/16/12 7:13	MJC
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	6/14/12	6/16/12 7:13	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	122	30-150		6/16/12 7:13
Decachlorobiphenyl [2]	117	30-150		6/16/12 7:13
Tetrachloro-m-xylene [1]	109	30-150		6/16/12 7:13
Tetrachloro-m-xylene [2]	115	30-150		6/16/12 7:13

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0486

Date Received: 6/14/2012

Field Sample #: PH-VBC-576
Sampled: 6/14/2012 07:10

Sample ID: 12F0486-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:22	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:22	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:22	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:22	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:22	MJC
Aroclor-1254 [1]	0.86	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:22	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:22	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:22	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:22	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	117	30-150		6/16/12 1:22
Decachlorobiphenyl [2]	112	30-150		6/16/12 1:22
Tetrachloro-m-xylene [1]	115	30-150		6/16/12 1:22
Tetrachloro-m-xylene [2]	121	30-150		6/16/12 1:22

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0486

Date Received: 6/14/2012

Field Sample #: PH-VBC-577
Sampled: 6/14/2012 07:15

Sample ID: 12F0486-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:35	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:35	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:35	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:35	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:35	MJC
Aroclor-1254 [2]	1.1	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:35	MJC
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:35	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:35	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:35	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	110	30-150		6/16/12 1:35
Decachlorobiphenyl [2]	106	30-150		6/16/12 1:35
Tetrachloro-m-xylene [1]	105	30-150		6/16/12 1:35
Tetrachloro-m-xylene [2]	110	30-150		6/16/12 1:35

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Project Location: Cambridge, MA
Sample Description:
Work Order: 12F0486

Date Received: 6/14/2012

Field Sample #: PH-VBC-578
Sampled: 6/14/2012 07:20

Sample ID: 12F0486-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:48	MJC
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:48	MJC
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:48	MJC
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:48	MJC
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:48	MJC
Aroclor-1254 [2]	0.37	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:48	MJC
Aroclor-1260 [2]	0.34	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:48	MJC
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:48	MJC
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	6/14/12	6/16/12 1:48	MJC

Surrogates	% Recovery	Recovery Limits	Flag	
Decachlorobiphenyl [1]	106	30-150		6/16/12 1:48
Decachlorobiphenyl [2]	102	30-150		6/16/12 1:48
Tetrachloro-m-xylene [1]	96.7	30-150		6/16/12 1:48
Tetrachloro-m-xylene [2]	101	30-150		6/16/12 1:48

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
12F0486-01 [PH-VBC-575]	B053432	2.20	10.0	06/14/12
12F0486-02 [PH-VBC-576]	B053432	2.10	10.0	06/14/12
12F0486-03 [PH-VBC-577]	B053432	2.10	10.0	06/14/12
12F0486-04 [PH-VBC-578]	B053432	2.10	10.0	06/14/12

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B053432 - SW-846 3540C										
Blank (B053432-BLK1)				Prepared: 06/14/12 Analyzed: 06/15/12						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.981*		mg/Kg	1.00		98.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			
LCS (B053432-BS1)				Prepared: 06/14/12 Analyzed: 06/15/12						
Aroclor-1016	0.30	0.10	mg/Kg	0.250		118	40-140			
Aroclor-1016 [2C]	0.31	0.10	mg/Kg	0.250		124	40-140			
Aroclor-1260	0.29	0.10	mg/Kg	0.250		117	40-140			
Aroclor-1260 [2C]	0.29	0.10	mg/Kg	0.250		116	40-140			
Surrogate: Decachlorobiphenyl	*1.15*		mg/Kg	1.00		115	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.12*		mg/Kg	1.00		112	30-150			
Surrogate: Tetrachloro-m-xylene	*1.15*		mg/Kg	1.00		115	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.21*		mg/Kg	1.00		121	30-150			
LCS Dup (B053432-BSD1)				Prepared: 06/14/12 Analyzed: 06/15/12						
Aroclor-1016	0.28	0.10	mg/Kg	0.250		112	40-140	5.23	30	
Aroclor-1016 [2C]	0.29	0.10	mg/Kg	0.250		118	40-140	5.76	30	
Aroclor-1260	0.28	0.10	mg/Kg	0.250		112	40-140	3.67	30	
Aroclor-1260 [2C]	0.28	0.10	mg/Kg	0.250		113	40-140	3.28	30	
Surrogate: Decachlorobiphenyl	*1.07*		mg/Kg	1.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC
Aroclor-1016 [2C]	CT,NH,NY,ME,NC
Aroclor-1221	CT,NH,NY,ME,NC
Aroclor-1221 [2C]	CT,NH,NY,ME,NC
Aroclor-1232	CT,NH,NY,ME,NC
Aroclor-1232 [2C]	CT,NH,NY,ME,NC
Aroclor-1242	CT,NH,NY,ME,NC
Aroclor-1242 [2C]	CT,NH,NY,ME,NC
Aroclor-1248	CT,NH,NY,ME,NC
Aroclor-1248 [2C]	CT,NH,NY,ME,NC
Aroclor-1254	CT,NH,NY,ME,NC
Aroclor-1254 [2C]	CT,NH,NY,ME,NC
Aroclor-1260	CT,NH,NY,ME,NC
Aroclor-1260 [2C]	CT,NH,NY,ME,NC

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2014
MA	Massachusetts DEP	M-MA100	06/30/2012
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2013
NY	New York State Department of Health	10899 NELAP	04/1/2013
NH	New Hampshire Environmental Lab	2516 NELAP	02/5/2013
RI	Rhode Island Department of Health	LAO00112	12/30/2012
NC	North Carolina Div. of Water Quality	652	12/31/2012
NJ	New Jersey DEP	MA007 NELAP	06/30/2012
FL	Florida Department of Health	E871027 NELAP	06/30/2012
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2012
WA	State of Washington Department of Ecology	C2065	02/23/2013
ME	State of Maine	2011028	06/9/2013
VA	Commonwealth of Virginia	1381	12/14/2012

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East longmeadow, MA 01028

Page 1 of 1

12F0486

Company Name: Woodard + Curran
Address: 41 Hutchins Drive
Portland Maine
Attention: Amy Wallace
Project Location: Cambridge, MA
Sampled By: JAR

Telephone:
Project # 223868
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ● EMAIL ○ WEBSITE
Fax #
Email: jhamel@woodardcurran.com; awallace@ "; jrussell@ "
Format: ● PDF ● EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

ANALYSIS REQUESTED

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs 8082	# of Containers	** Preservation	***Container Code
									1	I	A
01	PH-VBC-575	6/14/12	0705		X	L	Concrete	X			
02	PH-VBC-576	6/14/12	0710		X	L	Concrete	X			
03	PH-VBC-577	6/14/12	0715		X	L	Concrete	X			
04	PH-VBC-578	6/14/12	0720		X	L	Concrete	X			

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:
A=amber glass
G=glass
P=plastic
ST=sterile
V= vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other_____

*Matrix Code:
GW= groundwater
WW= wastewater
DW= drinking water
A = air
S = soil/solid
SL = sludge
O = other_____

Comments: PCBs 8082 Soxhlet
R.L. <1.0mg/kg

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Jr Russell	6/14/12 13:05
Received by: (signature)	Date/Time:
Paul Racicot	6/14/12 13:05
Relinquished by: (signature)	Date/Time:
Paul Racicot	6/14/12 18:10
Received by: (signature)	Date/Time:
[illegible]	6/14/12 18:10

Turnaround ††
☐ 7-Day
☐ 10-Day
☐ Other ____
RUSH †
☐ †24-Hr ☒ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts: R.L < 1.0mg/kg
Connecticut:
Other:

Is your project MCP or RCP ?
● MCP Analytical Certification Form Required
○ RCP Analysis Certification Form Required
○ MA State DW Form Required PWSID # _____

ACCREDITED IN ACCORDANCE WITH nelac
ACCREDITED LABORATORY AIHA Environmental Lead & Industrial Hygiene

NELAC & AIHA Certified
WBE/DBE Certified

†† TURNAROUND TIME (business days) STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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East Longmeadow, MA. 01028
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Sample Receipt Checklist

CLIENT NAME: Woodard & Curran **RECEIVED BY:** SD **DATE:** 6/14/12

1) Was the chain(s) of custody relinquished and signed? Yes No No CoC Included

2) Does the chain agree with the samples? Yes No

If not, explain:

3) Are all the samples in good condition? Yes No

If not, explain:

4) How were the samples received:

On Ice ☑ Direct from Sampling ☐ Ambient ☐ In Cooler(s) ☑

Were the samples received in Temperature Compliance of (2-6°C)? Yes No N/A

Temperature °C by Temp blank _____ Temperature °C by Temp gun 3.7

5) Are there Dissolved samples for the lab to filter? Yes No

Who was notified _____ Date _____ Time _____

6) Are there any RUSH or SHORT HOLDING TIME samples? Yes No

Who was notified _____ Date _____ Time _____

7) Location where samples are stored: 19

Permission to subcontract samples? Yes No
(Walk-in clients only) if not already approved
Client Signature: _____

8) Do all samples have the proper Acid pH: Yes No N/A _____

9) Do all samples have the proper Base pH: Yes No N/A _____

Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz amber/clear jar	4
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Air Cassette	
500 mL Plastic		Hg/Hopcalite Tube	
250 mL plastic		Plastic Bag / Ziploc	
40 mL Vial - type listed below		PM 2.5 / PM 10	
Colisure / bacteria bottle		PUF Cartridge	
Dissolved Oxygen bottle		SOC Kit	
Encore		TO-17 Tubes	
Flashpoint bottle		Non-ConTest Container	
Perchlorate Kit		Other glass jar	
Other		Other	

Laboratory Comments:

40 mL vials: # HCl _____ # Methanol _____

Bisulfate _____ # DI Water _____

Thiosulfate _____ Unpreserved _____

Time and Date Frozen:

MADEP MCP Analytical Method Report Certification Form

Laboratory Name: Con-Test Analytical Laboratory	Project #: 12F0486
Project Location: Cambridge, MA	RTN:

This Form provides certifications for the following data set: [list Laboratory Sample ID Number(s)]

12F0486-01 thru 12F0486-04

Matrices: Product/Solid

CAM Protocol (check all that below)

8260 VOC CAM II A ( )	7470/7471 Hg CAM IIIB ( )	MassDEP VPH CAM IV A ( )	8081 Pesticides CAM V B ( )	7196 Hex Cr CAM VI B ( )	MassDEP APH CAM IX A ( )
8270 SVOC CAM II B ( )	7010 Metals CAM III C ( )	MassDEP EPH CAM IV A ( )	8151 Herbicides CAM V C ( )	8330 Explosives CAM VIII A ( )	TO-15 VOC CAM IX B ( )
6010 Metals CAM III A ( )	6020 Metals CAM III D ( )	8082 PCB CAM V A (X)	9014 Total Cyanide/PAC CAM VI A ( )	6860 Perchlorate CAM VIII B ( )	

Affirmative response to Questions A throughF is required for "Presumptive Certainty" status

A	Were all samples received in a condition consistent with those described on the Chain-of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times?	☑ Yes	☐ No[1]
B	Were the analytical method(s) and all associated QC requirements specificed in the selected CAM protocol(s) followed?	☑ Yes	☐ No[1]
C	Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?	☑ Yes	☐ No[1]
D	Does the laboratory report comply with all the reporting requirements specified in CAM VII A, Quality Assurance and Quality Control Guidlines for the Acquisition and Reporting of Analytical Data?	☑ Yes	☐ No[1]
E a	VPH, EPH, and APH Methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).	☐ Yes	☐ No[1]
E b	APH and TO-15 Methods only: Was the complete analyte list reported for each method?	☐ Yes	☐ No[1]
F	Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all No responses to Qestions A through E)?	☑ Yes	☐ No[1]

A response to questions G, H and I below is required for "Presumptive Certainty" status

G	Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

***Data User Note:* Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350.**

H	Were all QC perfomance standards specified in the CAM protocol(s) achieved?	☑ Yes	☐ No[1]
I	Were results reported for the complete analyte list specified in the selected CAM protocol(s)?	☑ Yes	☐ No[1]

[1] *All Negative responses must be addressed in an attached Environmental Laboratory case narrative.*

I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, accurate and complete.

Signature: _____ Position: Laboratory Manager

Printed Name: Daren J. Damboragian Date: 06/18/12

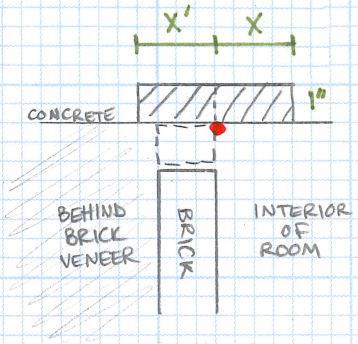
APPENDIX C: CONCRETE CEILING DETAILS

WOODARD & CURRAN
41 HUTCHINS DRIVE
PORTLAND, MAINE 04102
TEL. (207) 774-2112
FAX (207) 774-6635

● = CAULKED JOINT

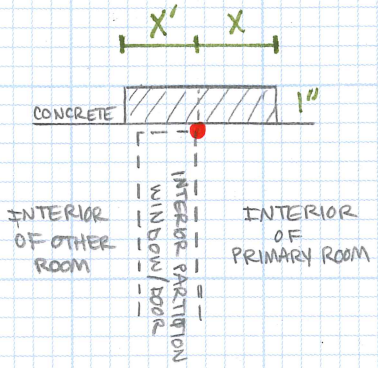
CLIENT: HARVARD
PROJECT: POUND HALL
DESIGNED BY: A. WALLACE DATE: 4/9/12
CHECKED BY: DATE:
PROJECT NO. 223868 SHEET NO. 1 OF 1

DETAIL 1A



X = X' = 10"

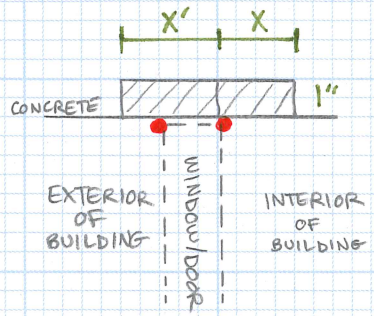
DETAIL 1B



X = X' = 14"

X' ONLY TO BE APPLIED IN ABSENCE OF ANOTHER CHARACTERIZED JOINT

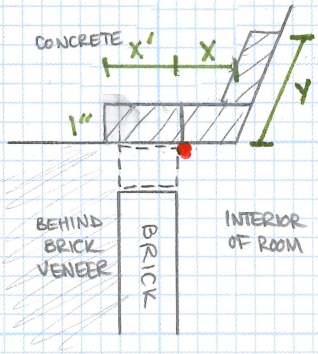
DETAIL 1B



X = 10"

X' = FRAME DEPTH + 3"

DETAIL 2A

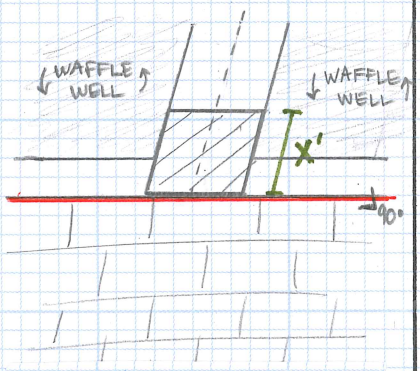


X = 4"

Y = 1" (1ST/2ND FL.) OR 7" (3RD FL.)

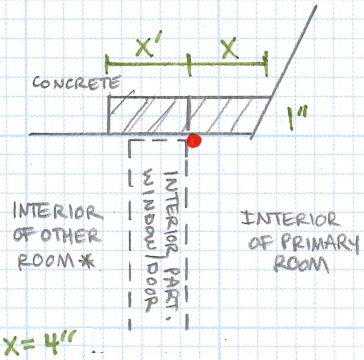
X' = X + Y

DETAIL 2A



X' = X + Y
(SAME DISTANCE AS THIS X')

DETAIL 2B

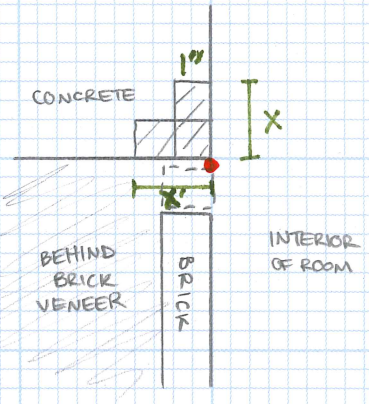


X = 4"

X' = 4" + 1" = 5" → ONLY TO BE APPLIED IN ABSENCE OF ANOTHER CHARACTERIZED JOINT ON OPPOSITE SIDE OF WINDOW/DOOR

* INTERIOR ONLY; WAFFLES DO NOT ABUT EXTERIOR

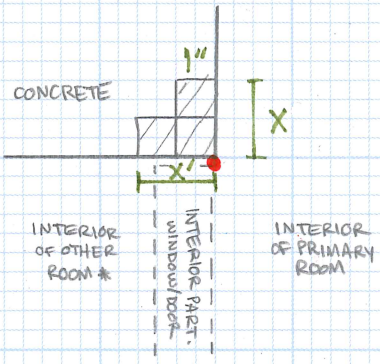
DETAIL 3A



X = 3"

X' = 3"

DETAIL 3B



X = 3" (EXCEPT 1ST FL EXIT TO PED. RAMP: 1")

X' = 3" → ONLY TO BE APPLIED IN ABSENCE OF ANOTHER CHARACTERIZED JOINT IN OPPOSITE ROOM.

* CAN ONLY BE INTERIOR; CONDITION DOES NOT EXIST @ EXT. WALLS.

APPENDIX D: MASSDEP CORRESPONDENCE

Jeff Hamel

From: Reynolds, Gordon R <gordon_reynolds@harvard.edu>
Sent: Tuesday, May 15, 2012 12:47 PM
To: LeBlanc, Christine R; Jeff Hamel
Cc: McQueeney, Kelly J.; Wang, Audrey K
Subject: FW: PCB Paint Questions
Attachments: PCB Paint Questions.htm

All,

Scenario 1 is consistent with what we expect at Pound on the concrete with a painted surface. As indicated, if the substrate and paint (>50 ppm) test less than 2 ppm, then it will not be considered MA02. We would, under TSCA, still consider this a Bulk Product Waste, since the paint is >50 PPM, but would be able to remove the MA02 classification.

Regards,

Gordon Reynolds

From: Paterson, James (DEP) [mailto:james.paterson@state.ma.us]
Sent: Tuesday, May 15, 2012 11:43 AM
To: Reynolds, Gordon R
Subject: PCB Paint Questions

Per our conversation.

James Paterson
617.556.1096

From: Emond, Paul (DEP)
Sent: Monday, November 28, 2011 12:09 PM
To: MJRichards@tighebond.com
Cc: O'Donnell, John (DCP); Paterson, James (DEP); Sirull, William (DEP); Doucett, James (DEP)
Subject: FW: PCB Paint Questions

Marc, below is MassDEP's response to your inquiry about managing PCB containing paint.

Question 1 – If PCB paint is identified greater than 50 ppm in Massachusetts and TSCA permits a Bulk Product Waste to be managed in a state permitted landfill, would MassDEP allow the paint and corresponding substrate to be demolished/processed and then sampled to show that PCB concentrations are well below 2 ppm (typical standard that landfill adhere to in Mass) and therefore not an MA02 waste. I compare this to how we often deal with painted components in a BUD scenario. Lead paint chips would be classified as a hazardous waste from a TCLP standpoint, but we often only look at the processed waste stream to show that the material is not hazardous. This becomes applicable to the landfills in Massachusetts that can currently receive processed coated/painted brick/concrete per an existing BUD/operating permit.

Note: the above assumes that the brick/concrete, etc. that the paint is adhered to is not classified as a remediation waste per TSCA because the PCBs from paint do not typically leach into brick/block (this is not the case for PCB caulking, which is not addressed in this email)

Answer. The Department may allow mixtures of PCB paint (> 50 ppm) and corresponding substrate that have been tested to show PCB concentrations below 2 ppm to be managed as non-hazardous waste. The Department, however, would require that a generator of PCB paint (>50 ppm) that can be easily removed from its substrate (e.g. flaking paint on concrete or brick) to remove such paint by scraping and manage it as MA02 whenever practicable. A generator may not purposely dilute PCB paint (> 50 ppm) and corresponding substrate mixtures with non-PCB waste material in order to achieve concentrations of < 2 ppm PCBs.

Under this scenario the resulting PCB containing paint (> 50 ppm) and substrate may be disposed of in MassDEP approved lined non-hazardous solid waste landfills provided the receiving landfill maintains a record of the testing documentation that shows the combination of paint and substrate is < 2 ppm PCBs, and that loose paint has been removed. Reuse of such PCB containing paint (>50 ppm) and substrate as cover material, or any other type of landfill reuse, at the landfill is not allowed unless the landfill owner/operator requests and receives a written approval from MassDEP through a Beneficial Use Determination (BUD) or other permit application process. MassDEP will not entertain the reuse of PCB containing paint (>50 ppm) and substrate (even when the combination of paint and substrate has a PCB concentration < 2 ppm) outside of a landfill environment.

APPENDIX E: DRAFT DEED NOTICE

DRAFT

[ATTORNEY NAME]
[ATTORNEY ADDRESS]

NOTICE OF RESTRICTION PURSUANT TO 40 CFR § 761.61

This Notice of Restriction is made as of this _____ day of _____, 20__ by President and Fellows of Harvard College ("Harvard"), with a principal place of business at Harvard University, c/o Office of the General Counsel, 1350 Massachusetts Avenue, Holyoke Center, Suite 980, Cambridge, Massachusetts 02138-3834, together with its successors and assigns.

W I T N E S S E T H

WHEREAS, Harvard is the owner in fee simple of land, together with buildings and improvements thereon, located at 1563 Massachusetts Avenue in the City of Cambridge, Middlesex County, Massachusetts, more fully described on Exhibit A which is attached hereto and made a part hereof and shown on Exhibit B which is attached hereto and made a part hereof (the "Property");

WHEREAS, the Property and subject building is commonly referred to as Pound Hall on the Harvard Law School campus;

WHEREAS, one or more remedial response actions have been conducted on the Property in accordance with 40 CFR Part 761. Said response actions were conducted in association with the partial demolition and renovation of the existing site structure, where the demolished portion of the structure was found to have been constructed with materials that contained and/or may have contained polychlorinated biphenyls ("PCBs"). Remedial actions completed included removal and off-site disposal of PCB containing caulking, window and door components, bricks, concrete, asphalt, and soils;

WHEREAS, PCBs at levels greater than 1 part per million and up to 5.5 parts per million remain in certain former concrete foundation walls beneath the portion of the building since demolished, with said former concrete foundation walls being fully subgrade and covered by soils and restored ground surface coverings located at the Property;

WHEREAS, the portions of the former concrete foundation walls of the building at the Property where PCBs remain in subgrade building materials at levels greater than 1 part per million are more fully described and shown on Exhibit C which is attached hereto and made a part hereof (the "Affected Areas");

WHEREAS, to prevent human exposure to said PCBs at the Property, certain restrictions have been imposed on the Affected Areas at the Property, as set forth below; and

WHEREAS, this Notice of Restriction has been provided to inform all interested parties of such restrictions, and a copy of this Notice of Restriction has been provided to the United States Environmental Protection Agency (EPA) as an appendix to the Final Completion Report documenting the remedial response actions conducted on the Property in accordance with 40 CFR Part 761.

NOW THEREFORE, notice is hereby given that:

1. The Affected Areas have been used for PCB waste disposal (i.e., residual PCB concentrations remain in certain subgrade concrete building materials). For avoidance of doubt, the Affected Areas pertain only to certain subgrade portions of the former concrete foundation walls; the Affected Areas do not include or restrict any other land or structures that may be part of the Property.

2. The Affected Areas are restricted to use as a low occupancy area as defined in 40 CFR § 761.3. The Affected Areas shall remain fully subgrade and covered by soils and restored ground surface coverings at the Property.

3. In the event that future conditions arise in which the Affected Areas or portions of the Affected Areas require removal from their current locations, then those Affected Areas or portions of the Affected Areas shall be removed from the Property as PCB remediation waste in accordance with 40 CFR Part 761.

4. It is the intention of Harvard that the restrictions set forth herein shall be construed to touch and concern the Affected Areas (and only the Affected Areas) and to run with the land, in perpetuity, and shall become effective when executed under seal and acknowledged by the undersigned and recorded with the Middlesex County South Registry of Deeds, subject to modification or removal in accordance with the provisions of 40 CFR § 761.61 or other applicable laws, rules, or regulations, as the same may be amended. The restrictions set forth herein shall not apply to or burden any land outside the boundaries of the Property.

DRAFT

IN WITNESS WHEREOF, this Notice of Restriction has been executed as an instrument under seal as of the date first above written.

President and Fellows of Harvard College

By: _____
Name: _____
Title: _____
Hereunto duly authorized

By: _____
Name: _____
Title: _____
Hereunto duly authorized

DRAFT

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss

On this ____ day of _____, 20__, before me, as the undersigned notary public, personally appeared_____, proved to me through satisfactory identification, which was _____, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose as _____ of President and Fellows of Harvard College.

_____

Notary Public

My commission expires:

COMMONWEALTH OF MASSACHUSETTS

Middlesex, ss

On this ____ day of _____, 20__, before me, as the undersigned notary public, personally appeared _____, proved to me through satisfactory identification, which was _____, to be the person whose name is signed on the preceding or attached document, and acknowledged to me that he/she signed it voluntarily for its stated purpose as _____ of President and Fellows of Harvard College.

_____

Notary Public

My commission expires:

DRAFT

EXHIBIT A

<u>LEGAL DESCRIPTION</u>

[*INSERT LEGAL DESCRIPTION HERE*]

DRAFT

EXHIBIT B

<u>SITE SURVEY PLAN</u>

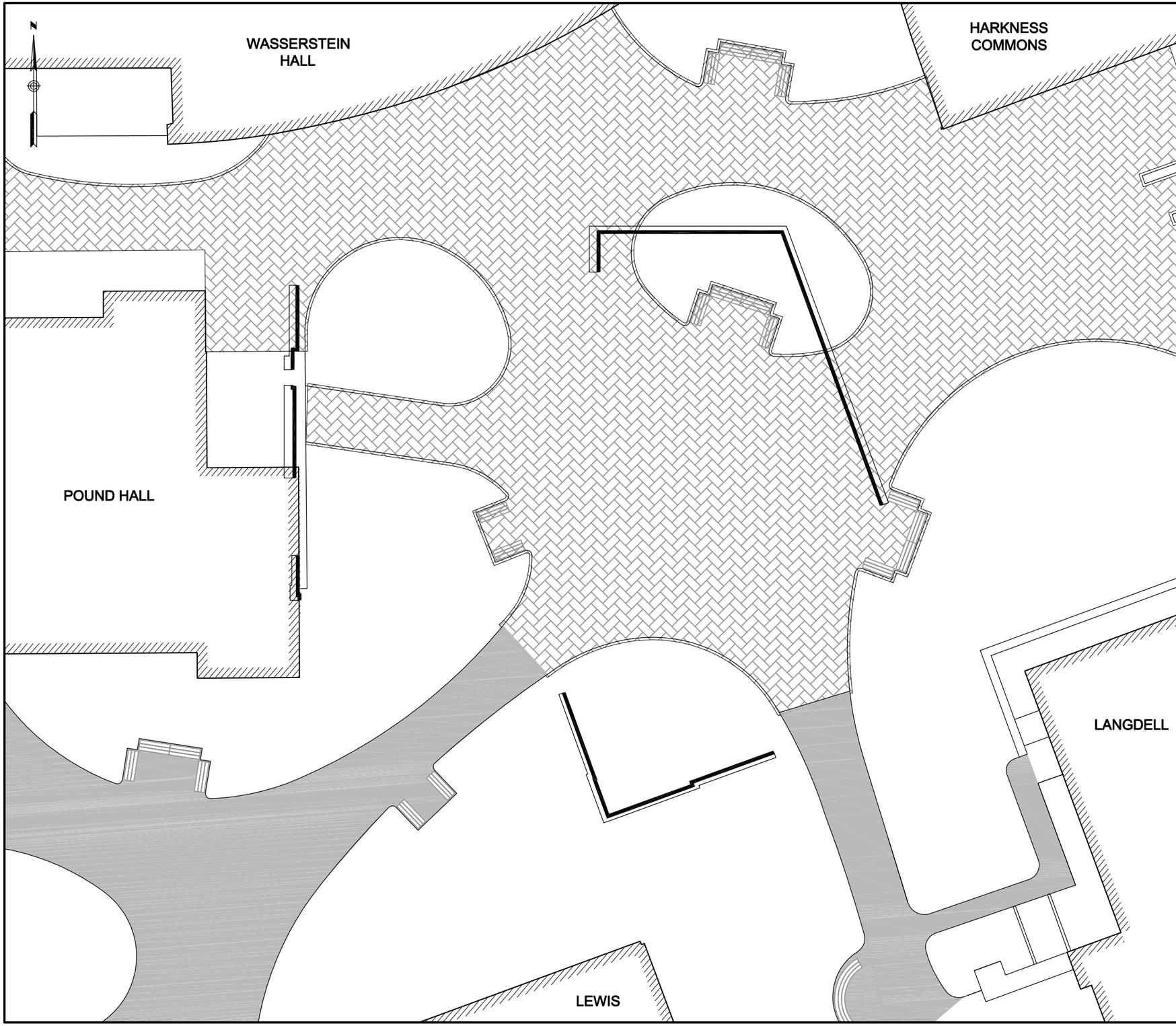
[*INSERT SITE SURVEY PLAN FOLLOWING THIS PAGE*]

DRAFT

EXHIBIT C

DESCRIPTION OF THE AFFECTED AREAS

Portions of the former concrete foundation walls beneath the demolished portion of the building formerly located on the Property where PCBs remain in subgrade building materials at levels greater than 1 part per million and are subject to restrictions as described in the Notice of Restriction (i.e., the "Affected Areas") shall consist solely of those portions of the former concrete foundation walls as shown on Figure 1, which is attached to this Exhibit C and incorporated herein by reference. The Affected Areas include only those former concrete foundation walls being fully subgrade and covered by soils and the restored ground surface coverings, as generally depicted on Figure 1. For avoidance of doubt, the Affected Areas pertain only to the above referenced portions of the building, and do not include or restrict any other land or structures that may be part of the Property.



DRAFT

LEGEND

- AFFECTED AREAS (BELOW GRADE)
- EXISTING BUILDING
- BRICK PAVERS
- ASPHALT

NOTES:

1. DRAWING ADAPTED FROM POUND HALL PARTIAL DEMOLITION PROJECT 100% CONSTRUCTION DOCUMENTS (FINEGOLD ALEXANDER + ASSOCIATES INC, 12.23.11).
2. THE AFFECTED AREAS CONSIST OF FORMER CONCRETE FOUNDATION WALLS WHICH ARE FULLY SUBGRADE AND COVERED BY SOILS AND RESTORED GROUND SURFACE COVERINGS, AS SHOWN.

0 20 40

SCALE IN FEET

40 Shattuck Road | Suite 110
Andover, Massachusetts 01810
866.702.6371 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

WOODARD & CURRAN

AFFECTED AREAS

DESIGNED BY: ALW
DRAWN BY: EVR
CHECKED BY: JAH
FIGURE 1 2.13.DWG

POUND HALL PARTIAL DEMOLITION
HARVARD LAW SCHOOL

DEED NOTICE

JOB NO: 223868
DATE: FEBRUARY 2013
SCALE: AS NOTED

FIGURE 1

APPENDIX F: WASTE SHIPMENT RECORDS

APPENDIX F

PCB Waste Shipment Summary
Pound Hall, Cambridge, Massachusetts

WASTE SHIPMENT SUMMARY

Facility	Volume (tons)	Containers
EQ Wayne Belleville	187	23 roll-offs
Minerva	2,553	63 trailers
WM Turnkey	90.6	6 roll-offs
WM Model City	17.9	1 roll-off
Total	*2,848*	*30 roll-offs, 63 trailers*

APPENDIX F

PCB Waste Shipment Summary
Pound Hall, Cambridge, Massachusetts

TOTAL BUILDING MATERIAL VOLUME DISPOSED OF AT EQ WAYNE FACILITY

Manifest Number	Volume (kg)	Volume (lb)	Volume (tons)	Containers
010233601 JJK	1,645	3,627	1.8	1 roll-off
010343234 JJK	8,327	18,358	9.2	1 roll-off
010343132 JJK	11,818	26,054	13.0	1 roll-off
010343131 JJK	8,327	18,358	9.2	1 roll-off
008027775 JJK	7,400	16,314	8.2	1 roll-off
004223809 JJK	8,200	18,078	9.0	1 roll-off
004223805 JJK	6,283	13,852	6.9	1 roll-off
004223804 JJK	7,545	16,634	8.3	1 roll-off
00802779 JJK	7,481	16,493	8.2	1 roll-off
008027920 JJK	7,545	16,634	8.3	1 roll-off
008027919 JJK	9,645	21,264	10.6	1 roll-off
008027918 JJK	7,481	16,493	8.2	1 roll-off
008027916 JJK	7,942	17,509	8.8	1 roll-off
008027826 JJK	9,500	20,944	10.5	1 roll-off
008027827 JJK	7,275	16,039	8.0	1 roll-off
008027825 JJK	6,850	15,102	7.6	1 roll-off
008027789 JJK	5,290	11,662	5.8	1 roll-off
008027780 JJK	6,531	14,398	7.2	1 roll-off
008027782 JJK	6,890	15,190	7.6	1 roll-off
008027778 JJK	5,381	11,863	5.9	1 roll-off
008027915 JJK	5,863	12,926	6.5	1 roll-off
008027886 JJK	5,290	11,662	5.8	1 roll-off
008027863 JJK	10,796	23,801	11.9	1 roll-off
Subtotal	*169,305*	*373,253*	*187*	*23 roll-offs*

008027863JJK

lead

SLH

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 MAD001963263	2. Page 1 of	3. Emergency Response Phone 781-844-2347	4. Manifest Tracking Number 008027863 JJK

5. Generator's Name and Mailing Address
Harvard University
1983 Massachusetts Avenue
Cambridge, MA 02138
Generator's Phone: 617-496-9152

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: EQ Northeast Inc — U.S. EPA ID Number: MAD 084814136

8. Designated Facility Name and Site Address
Wayne Disposal, Inc Site 2 Landfill
[illegible] N1-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID048090633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	10,796	K	PCB1	MA02	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C125059WDI / (S) PCB Debris - Brick & Asphalt / Storage Start Date 2/4/12 Container number 3066

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: Lance D. Schumacher — Signature: [signature] — Month 03 Day 21 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Kevin Edmiston — Signature: [signature] — Month 3 Day 21 Year 12
Transporter 2 Printed/Typed Name: Steven Connor — Signature: [signature] — Month 3 Day 21 Year 12

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. PCB 2. 3. 4.

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: David Tarnacki — Signature: [signature] — Month 3 Day 22 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

COD #2

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Soil

and specified on Manifest # 00 8027863 JJK, Line Item 1 has been landfilled on

March 22, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Walter

TAKE 13000

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: MAD[illegible]001963263
2. Page 1 of 1
3. Emergency Response Phone: 970-360-0049
4. Manifest Tracking Number: 008027886 JJK

5. Generator's Name and Mailing Address
Harvard University
1583 Massachusetts Avenue
Cambridge, MA 02138
Generator's Phone: 617-496-9152

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

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

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

8. Designated Facility Name and Site Address
Wayne Disposal, Inc Site 2 Landfill
49350 N1-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID048090633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	15,500	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. CT25050WD1 / (8) PCB Debris - Brick & Asphalt / Storage Start Date 01-03-12 Container number 3081
Weight Estimated

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: [illegible] Signature: [signature] Month 04 Day 11 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman Signature: Carl Sherman Month 04 Day 11 Year 12
Transporter 2 Printed/Typed Name: Monte Miles Signature: Monte Miles Month 04 Day 16 Year 12

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 5,290 kg ok per Glenn Topping Manifest Reference Number: EB 4/19/12 JV

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. PCB 2. 3. 4.

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: Josh [illegible] Signature: [signature] Month 04 Day 18 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Soil

and specified on Manifest # 00 802 7886 JJK, Line Item 1 has been landfilled on

April 18, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Walker

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: MAD082180672 00 198323
2. Page 1 of: 1
3. Emergency Response Phone: 781-944-0347
4. Manifest Tracking Number: 00002791 5 JJK

GENERATOR

5. Generator's Name and Mailing Address: Harvard University, 1000 Massachusetts Avenue, Cambridge, MA 02138
Generator's Site Address (if different than mailing address):
Generator's Phone: 617-496-0152

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505859

7. Transporter 2 Company Name: PRILE TRUCKING CORP
U.S. EPA ID Number: NYD046765574

8. Designated Facility Name and Site Address: Wayne Disposal, Inc Site 2 Landfill, 49350 N I-94 Service Drive, Belleville, MI 48111
U.S. EPA ID Number: MDD980800633
Facility's Phone: 800-592-5180

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 0, PGIII, ERG#171	001	CM	8,000	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. CTR000505859 / (S) PCB Debris - Brick & Asphalt / Storage Start Date 04-11-12 Container number 3088
Weight Estimated

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: LANCE D. Schwesler
Signature:
Month 04 Day 17 Year 12

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 04 Day 17 Year 12
Transporter 2 Printed/Typed Name: MALCOLM METZLER
Signature: M. Metzler
Month 4 Day 17 Year 12

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest weight 5,843 kg vs per CTR000505859 CEO 4/25/12 JV
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
PCB

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

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: Mark Weeks
Signature: Mark Weeks
Month 4 Day 25 Year 12

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027915 JJK, Line Item 1 has been landfilled on

April 25, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Walker

TK 1300

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: MAD081983368
2. Page 1 of
3. Emergency Response Phone: 781-944-3347
4. Manifest Tracking Number: 008027778 JJK

5. Generator's Name and Mailing Address
Harvard University - Altrc Env Affairs
46 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-9152

Generator's Site Address (if different than mailing address)
1563 Massachusetts Avenue
Cambridge, MA 02138

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

7. Transporter 2 Company Name: Pure Trucking Corp. — U.S. EPA ID Number: NYD047165574

8. Designated Facility Name and Site Address
Wayne Disposal, Inc Unit 1 Landfill
49350 N I-94 Service Drive
Belleville, MI 48111
800-592-5489
Facility's Phone:
U.S. EPA ID Number: MID048090633

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
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, 9, PG III, ERG#171	001	CM	6350	K	PCBT MA07
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1-012000WM / (16) PCB Debris - Brick & Asphalt / Stanley Polen Date 4-17-12 Container number 5083
Weight Estimated

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: Lance D Schneider — Signature: [signature] — Month 04 Day 24 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman — Signature: [signature] — Month 04 Day 24 Year 12
Transporter 2 Printed/Typed Name: Monte Miles — Signature: [signature] — Month 4 Day 26 Year 12

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 5,381 lbs per Gilbin Tonnage ED 5/2/12 JV
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
PCB

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. D99 2. 3. 4.

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: Josh Hearle — Signature: [signature] — Month 05 Day 01 Year 12

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete. DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027778 JJK, Line Item 1 has been landfilled on

5/01/2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:

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: MAD001063203
2. Page 1 of
3. Emergency Response Phone: 781-944-2347
4. Manifest Tracking Number: 006027782 JJK

5. Generator's Name and Mailing Address: Harvard University - Attn: Ann Affairs, 46 Blackstone Street, Cambridge, MA 02139
Generator's Site Address (if different than mailing address): 1583 Massachusetts Avenue, Cambridge, MA 02138
Generator's Phone: 617-496-9153

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

7. Transporter 2 Company Name: Pico Trucking Inc — U.S. EPA ID Number: NYD076765574

8. Designated Facility Name and Site Address: Wayne Disposal, Inc elite 2 Landfill, 49350 N I-94 Service Drive, Belleville, MI 48111 — U.S. EPA ID Number: MID048090633
Facility's Phone: 800-592-5489

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	8800	K	PCB1	MAD1	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. CT250505WOH (8) PCB Debris - Brick & Asphalt / Storage Start Date 5-1-12 Container number 3001
Weight in Section 11 is Estimate

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: Lance Schuster — Signature: [signature] — Month 05 Day 01 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Justin Chichester — Signature: [signature] — Month 05 Day 01 Year 12
Transporter 2 Printed/Typed Name: James Sisson — Signature: [signature] — Month 5 Day 1 Year 12

18. Discrepancy
18a. Discrepancy Indication Space: ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Gross weight 4,890 kg at Pico Glenn 11:37 PM 5/1/12 Core
OK to add Storage Date per Glenn Topping @ EQUE 5/9/12 JJK
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. PCB 2. 3. 4.

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: Charles Swope — Signature: [signature] — Month 5 Day 8 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 00 8027782 JJK, Line Item 1 has been landfilled on

May 8, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Weber

TANK 3000 Rear

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: MAD001002203
2. Page 1 of
3. Emergency Response Phone: 781-884-2347
4. Manifest Tracking Number: 008027780 **JJK**

5. Generator's Name and Mailing Address: Harvard University - Alt/Grne Affairs, 40 Blackstone Street, Cambridge, MA 02138
Generator's Site Address (if different than mailing address): 1583 Massachusetts Avenue, Cambridge, MA 02138
Generator's Phone: 617-496-0152

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000015859

7. Transporter 2 Company Name: Price Trucking Corp.
U.S. EPA ID Number: NYX-616-5579

8. Designated Facility Name and Site Address: Wayne Disposal, Inc Site 2 Landfill, 49350 N I-94 Service Drive, Belleville, MI 48111
U.S. EPA ID Number: MID048090633
Facility's Phone: 800-592-5489

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	4309	K	PCB1	MA02	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C120D60WDI / (6) PCB Debris - Brick & Asphalt / Storage Start Date 5-1-12 Container number 3066
what in Sec. II estimate

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: Lance D. Schmeda
Signature:
Month 05 Day 08 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mark Andrade Jr.
Signature:
Month 05 Day 08 Year 12
Transporter 2 Printed/Typed Name: Monte Miles
Signature:
Month 5 Day 9 Year 12

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 6.531kg ok per Alena Tarpang @ FR 5/14/12 JV
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. PCB 2. 3. 4.

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: Mark Wenke
Signature:
Month 5 Day 11 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Soil

and specified on Manifest # 0C80 27780 JJK, Line Item 1 has been landfilled on

May 11, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Walker

TNK # 13000

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: MAD001963203
2. Page 1 of 1
3. Emergency Response Phone: 781-844-2347
4. Manifest Tracking Number: 008027789 JJK

5. Generator's Name and Mailing Address: Harvard University - Attn: Env Affairs, 46 Blackstone Street, Cambridge, MA 02139
Generator's Phone: 617-498-9162
Generator's Site Address (if different than mailing address): 1563 Massachusetts Avenue, Cambridge, MA 02138

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

7. Transporter 2 Company Name: Prime Trucking Corp. — U.S. EPA ID Number: NYD046765574

8. Designated Facility Name and Site Address: Wayne Disposal, Inc site 2 Landfill, 49350 NI-94 Service Drive, Belleville, MI 48111 — U.S. EPA ID Number: MID040090633
Facility's Phone: 800-592-5489

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
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	8,663	K	PCB1 MA01
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1. C1950000WDI / (8) PCB Debris - Brick & Asphalt / Storage Start Date _____ Container number 3062
Weight in Section 11 is Estimate

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: Lance D. Schumacher — Signature: [signature] — Month 05 Day 21 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Justin Chichester — Signature: [signature] — Month 05 Day 21 Year 12
Transporter 2 Printed/Typed Name: Monte Miles — Signature: Monte Miles — Month 05 Day 22 Year 12

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 5,290 kg OK per Don Zeamun @ EDNE 5/24/12 JV
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
PCB

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

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: David Tarnacki — Signature: [signature] — Month 5 Day 24 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027789 JJK, Line Item 1 has been landfilled on

May 24, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Walker

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: MAD001963263
2. Page 1 of 1
3. Emergency Response Phone: 781-844-2347
4. Manifest Tracking Number: 008027825 JJK

5. Generator's Name and Mailing Address
Harvard University - Attn:Env Affairs
46 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-9152

Generator's Site Address (if different than mailing address)
1563 Massachusetts Avenue
Cambridge, MA 02138

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

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

8. Designated Facility Name and Site Address
Wayne Disposal, Inc Site 2 Landfill
49350 NI-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID048090033

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGII, ERG#171	001	CM	6,850	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C126039WD / (G) PCB Debris - Brick & Asphalt / Storage Start Date 5-21-12 Container number 3061
Weight Estimated

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: [illegible] Schwarzle
Signature: [signature]
Month 05 Day 29 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 05 Day 29 Year 12
Transporter 2 Printed/Typed Name: [illegible] Zinkiv
Signature: [signature]
Month 5 Day 29 Year 12

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
PCB

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. PCB 2. 3. 4.

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: David Tarnacki
Signature: [signature]
Month 5 Day 31 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.I.

and specified on Manifest # 008027825 JJK, Line Item 1 has been landfilled on

May 31, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark White

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: MAD001983263
2. Page 1 of 1
3. Emergency Response Phone: 781-844-2347
4. Manifest Tracking Number: 008027827 JJK

5. Generator's Name and Mailing Address: Harvard University - Attn: Env Affairs, 46 Blackstone Street, Cambridge, MA 02130
Generator's Phone: 617-496-9152
Generator's Site Address (if different than mailing address): 1569 Massachusetts Avenue, Cambridge, MA 02139

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505959

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

8. Designated Facility Name and Site Address: Wayne Disposal, Inc elite 2 Landfill, 49350 N I-94 Service Drive, Belleville, MI 48111
Facility's Phone: 800-592-5408
U.S. EPA ID Number: MID048090833

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGII, ERG#171	001	CM	7,275	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. D126071WDI/(5)PCB Debris - Metal/Storage Start Date 3-23-12 Container number 4031 EXT Yards
30 yds
Weight Estimated

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: Lance Schroeder
Signature: [signature]
Month 05 Day 29 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 05 Day 29 Year 12
Transporter 2 Printed/Typed Name: Dan Zinkiu
Signature: [signature]
Month 5 Day 29 Year 12

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
PCB

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)
1. DCD 2. 3. 4.

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: David Tarnacki
Signature: [signature]
Month 5 Day 31 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027827 JJK, Line Item 1 has been landfilled on

May 31, 292 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Weber

TNK# K3000

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: MAD001983283
2. Page 1 of 1
3. Emergency Response Phone: 781-844-2347
4. Manifest Tracking Number: 008027826 JJK

GENERATOR

5. Generator's Name and Mailing Address
Harvard University - Attn: Env Affairs
46 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-495-9152

Generator's Site Address (if different than mailing address)
1582 Massachusetts Avenue
Cambridge, MA 02139

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505058

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

8. Designated Facility Name and Site Address
Waste Disposal, Inc Site 2 Landfill
48350 N1-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID040000639

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGII, ERG#171	001	CM	9,500	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C125058WDI / (S) PCB Debris - Brick & Asphalt / Storage Start Date 5-31-12 Container number 3062
weight Estimated

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: Lance D Schumacher
Signature: [signature]
Month 06 Day 05 Year 12

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 06 Day 05 Year 12
Transporter 2 Printed/Typed Name: Monte Miles
Signature: Monte Miles
Month 06 Day 06 Year 12

DESIGNATED FACILITY

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. PCB
2.
3.
4.

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: Mark Weeks
Signature: Mark Weeks
Month 6 Day 11 Year 12

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027826 JJK, Line Item 1 has been landfilled on

June 11, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Wehr

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: MAD001963263
2. Page 1 of 1
3. Emergency Response Phone: 781-844-2347
4. Manifest Tracking Number: 008027916 JJK

5. Generator's Name and Mailing Address:
Harvard University - Attn: Env Affairs
46 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-9152

Generator's Site Address (if different than mailing address):
1563 Massachusetts Avenue
Cambridge, MA 02138

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505959

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

8. Designated Facility Name and Site Address:
Wayne Disposal, Inc Site 2 Landfill
49350 NJ-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID048090633

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGII, ERG#171	001	CM	7,942	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
ID12607 (WD17(S)PCB Metal/Storage Start Date 5-31-12 Container number 3069 EXT Yards 20

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: Alexander Schneider
Signature: [signature]
Month 06 Day 11 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kevin Edmisson
Signature: Kevin Edmisson
Month 6 Day 11 Year 12

Transporter 2 Printed/Typed Name: Monte Miles / James Simpson
Signature: Monte Miles
Month 06 Day 12 Year 12

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.
PCB			

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: Mark Weeks
Signature: Mark Weeks
Month 6 Day 11 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027916 JJK, Line Item 1 has been landfilled on

June 19, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Wahr

TMK # 3000

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: MAD001983263
2. Page 1 of 1
3. Emergency Response Phone: 781-644-2347
4. Manifest Tracking Number: 008027918 JJK

GENERATOR

5. Generator's Name and Mailing Address
Harvard University - Attn:Env Affairs
46 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-9152

Generator's Site Address (if different than mailing address)
1583 Massachusetts Avenue
Cambridge, MA 02138

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505050

7. Transporter 2 Company Name: Price Trucking Corp.
U.S. EPA ID Number: NYD046165574

8. Designated Facility Name and Site Address
Wayne Disposal, Inc Site 2 Landfill
49350 NI-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID048090633

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes	
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	11350	K	PCB1	MA01
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
1. C125059WDI / (S) PCB Debris - Brick & Asphalt / Storage Start Date 6-5-12 Container number 3080
weight Estimated

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: [signature] Schumacher
Signature: [signature]
Month 06 Day 12 Year 12

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman
Signature: Carl Sherman
Month 06 Day 12 Year 12

Transporter 2 Printed/Typed Name: Monte Miles
Signature: Monte Miles
Month 06 Day 18 Year 12

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 7,481kg ok per Don Zeaman @ Manifest Reference Number: EQNE 6/18/12 JV

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. PCB 2. 3. 4.

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: Josh Heath
Signature: [signature]
Month 06 Day 18 Year 12

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Soil

and specified on Manifest # 008027918 JJK, Line Item 1 has been landfilled on

June 18, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Weber

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: MAD001063209
2. Page 1 of 1
3. Emergency Response Phone: 781-844-2247
4. Manifest Tracking Number: 008027919 JJK

5. Generator's Name and Mailing Address
Harvard University - Attn:Env Affairs
40 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-9152

Generator's Site Address (if different than mailing address)
1503 Massachusetts Avenue
Cambridge, MA 02139

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000098960

7. Transporter 2 Company Name: Price Trucking Corp
U.S. EPA ID Number: NYD046065579

8. Designated Facility Name and Site Address
Wayne Disposal, Inc Site 2 Landfill
49350 N I-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-8489

U.S. EPA ID Number: MID048020633

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	14,960	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C125058WDI / (8) PCB Debris - Brick & Asphalt / Storage Start Date 6-12-12 Container number 3066
Weight in Section 11 is Estimate

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: Lance D. Schumacher | Signature | Month 06 Day 12 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Justin Chichester | Signature | Month 06 Day 12 Year 12
Transporter 2 Printed/Typed Name: Monte Miles | Signature | Month 06 Day 12 Year 12

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 14,645 kg per DOT Seaman Drive
Offload SSD per Louise Cadavid & Rentech 6-18-12 JS 6/19/12 JV
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. PCB 2. 3. 4.

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: Mark Weeks | Signature | Month 6 Day 15 Year 12

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027919 JJK, Line Item 1 has been landfilled on

June 18, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Walsh

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: MAD001863203
2. Page 1 of 1
3. Emergency Response Phone: 791-044-2347
4. Manifest Tracking Number: 008027920 JJK

5. Generator's Name and Mailing Address
Harvard University - Attn: Env Affairs
48 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-9152

Generator's Site Address (if different than mailing address)
1583 Massachusetts Avenue
Cambridge, MA 02139

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505050

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

8. Designated Facility Name and Site Address
Wayne Disposal, Inc Site 2 Landfill
49350 NI-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID048080833

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	8,456	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C126050WDI / (S) PCB Debris - Brick & Asphalt / Storage Start Date 6-5-12 Container number 3088

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: Gaule D Schumacher
Signature: [signature]
Month 06 Day 12 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Kevin Edmiston
Signature: [signature]
Month 6 Day 12 Year 12

Transporter 2 Printed/Typed Name: Dennis Stanek
Signature: [signature]
Month 6 Day 13 Year 12

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 7,545 kg OK per Don Zeeman @ EQNE 6/19/12 JV
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. PCB 2. 3. 4.

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: Mark Weeks
Signature: [signature]
Month 6 Day 18 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027920 JK, Line Item 1 has been landfilled on

June 18, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Wahr

TKD 13000

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: MAD001003289
2. Page 1 of: 1
3. Emergency Response Phone: 781-944-2317
4. Manifest Tracking Number: 008027790 JJK

GENERATOR

5. Generator's Name and Mailing Address
Harvard University - Attn: Env Affairs
46 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-8152

Generator's Site Address (if different than mailing address)
1563 Massachusetts Avenue
Cambridge, MA 02138

6. Transporter 1 Company Name: RED Technologies LLC — U.S. EPA ID Number: CTR000506659

7. Transporter 2 Company Name: Price Trucking Corp — U.S. EPA ID Number: NJD041671655 74

8. Designated Facility Name and Site Address
Waste Disposal, Inc Site 2 Landfill
49950 M-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID048090633

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	12,640	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C125050WU1 / (S) PCB Debris - Brick & Asphalt / Storage Start Date 6-12-12 Container number 3082
Weight in Section 11 is Estimate

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: Lance J. Schuzale — Signature: [signature] — Month 06 Day 13 Year 12

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Justin Chichester — Signature: [signature] — Month 6 Day 13 Year 12
Transporter 2 Printed/Typed Name: Mone Miles — Signature: Mone Miles — Month 06 Day 14 Year 12

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space: ☒ Quantity 18,160 kg.0K ☐ Type per DOT ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight on load 550 per Louise Cadavid @ Red Tech 6-18-12 20 — Manifest Reference Number: 6/18/12 JV
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. PCB 2. 3. 4.

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: Josh Hegtz — Signature: [signature] — Month 06 Day 18 Year 12

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027790 JJK, Line Item 1 has been landfilled on

June 18, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Walker

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: MAD001809263
2. Page 1 of 1
3. Emergency Response Phone: 781-944-2417
4. Manifest Tracking Number: 004223804 JJK

5. Generator's Name and Mailing Address
Harvard University - Attorney Affairs
48 Blackstone Street
Cambridge, MA 02138
617-496-8103
Generator's Phone:

Generator's Site Address (if different than mailing address)
1963 Massachusetts Avenue
Cambridge, MA 02138

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505999

7. Transporter 2 Company Name: Price Trucking Corp.
U.S. EPA ID Number: NJD046765574

8. Designated Facility Name and Site Address
Wayne Disposal, Inc Gibb's Landfill
49350 N I-94 Service Drive
Belleville, MI 48111
800-592-5489
Facility's Phone:
U.S. EPA ID Number: MID048090693

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		
A	1. RQ, UN3432, Polychlorinated biphenyls, solid, 9, PGIII, ERG#171	001	CM	11,460	K	PCB1	MAD1	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. 012605WDI / (8) PCB Debris - Brick & Asphalt / Storage Start Date 6-10-12 Container number 3081

Weight in section 11 is Estimate

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: LAUCES Schwarzler
Signature:
Month 06 Day 05 Year 12

GENERATOR

INT'L

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

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Justin Chichester
Signature:
Month 6 Day 14 Year 12
Transporter 2 Printed/Typed Name: Dennis Slanok
Signature:
Month 6 Day 14 Year 12

DESIGNATED FACILITY

18. Discrepancy
18a. Discrepancy Indication Space: [X] Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
actual weight 7,545 kg OK PCL DWD 7/19/12 EBNE 6/19/12
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. PCB 2. 3. 4.

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: Mark Wirks
Signature: Mark Wirks
Month 6 Day 18 Year 12

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.W.

and specified on Manifest # 009223804 JJK, Line Item 1 has been landfilled on

June 18, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Wilk

TRK# 13000

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: MAD001983263
2. Page 1 of 1
3. Emergency Response Phone: 781-844-2347
4. Manifest Tracking Number: 004223805 JJK

5. Generator's Name and Mailing Address
Harvard University - Attn: Env Affairs
46 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-9152

Generator's Site Address (if different than mailing address)
1563 Massachusetts Avenue
Cambridge, MA 02138

6. Transporter 1 Company Name: RED Technologies LLC
U.S. EPA ID Number: CTR000505658

7. Transporter 2 Company Name: Price Trucking
U.S. EPA ID Number: DYP040765574

8. Designated Facility Name and Site Address
Wayne Disposal, Inc Site 2 Landfill
49350 N I-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5489
U.S. EPA ID Number: MID049090839

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGII, ERG#171	001	CM	6,283	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
TD125071WDI / (8) PCB Metal / Storage Start Date 6-10-12 Container number 3061 EXT Yards 25

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: Carole D. Schumacher
Signature: [signature]
Month 06 Day 14 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Kevin Edmiston
Signature: [signature]
Month 6 Day 14 Year 12

Transporter 2 Printed/Typed Name: Robert Regan
Signature: [signature]
Month 6 Day 14 Year 12

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.

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: Jacob Wilson
Signature: [signature]
Month 6 Day 20 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 004223805 JJK, Line Item 1 has been landfilled on

6/20/2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____

Trx # 3600 # 3093

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: MAD001803289
2. Page 1 of 1
3. Emergency Response Phone: 781-944-3347
4. Manifest Tracking Number: 004223809 JJK

5. Generator's Name and Mailing Address
Harvard University - Attn: Env Affairs
46 Blackstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-9152

Generator's Site Address (if different than mailing address)
1650 Massachusetts Avenue
Cambridge, MA 02138

6. Transporter 1 Company Name: RED Technologies LLC — U.S. EPA ID Number: CTR000505859

7. Transporter 2 Company Name: Price Trucking Corp. — U.S. EPA ID Number: NYD986565574

8. Designated Facility Name and Site Address
Veolia Disposal, Inc Site 2 Landfill
49350 M-94 Service Drive
Belleville, MI 48111
Facility's Phone: 800-592-5889
U.S. EPA ID Number: MID048090633

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		
X	1. RQ, UN3432, Polychlorinated Biphenyls, solid, 9, PGIII, ERG#171	001	CM	8,200	K	PCB1	WA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1. C125050WDT / (G) PCB Debris - Brick & Asphalt / Storage Start Date 6-14-12 Container number 3093
Weight Estimated

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: [illegible] — Signature: [illegible] — Month 06 Day 18 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Carl Sherman — Signature: [illegible] — Month 06 Day 18 Year 12
Transporter 2 Printed/Typed Name: Monte Miles — Signature: [illegible] — Month 06 Day 18 Year 12

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. D00 2. 3. 4.

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: David Tornachi — Signature: [illegible] — Month 6 Day 26 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 004223809 JJK, Line Item 1 has been landfilled on

June 26, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Wh

TNK 13000 PR #3070

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: MAD001063264
2. Page 1 of 1
3. Emergency Response Phone: 781-644-3947
4. Manifest Tracking Number: 003027775 JJK

5. Generator's Name and Mailing Address
Harvard University - Attn: Env Affairs
46 Gladstone Street
Cambridge, MA 02139
Generator's Phone: 617-496-0162

Generator's Site Address (if different than mailing address)
1583 Massachusetts Avenue
Cambridge, MA 02138

6. Transporter 1 Company Name: RED Technologies LLC — U.S. EPA ID Number: CTR000505659

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

8. Designated Facility Name and Site Address
Waste Disposal, Inc Site 2 Landfill
4950 Ulm-Pa Service Drive
Bellevilla, PA 16011
Facility's Phone: 800-692-6419

U.S. EPA ID Number: MDD049080633

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		
X	1. RQ, UN3432, Polychlorinated Diphenyls, solid, 9, PGIII, ERG#171	001	CM	7400	K	PCB1	MA01	
	2.							
	3.							
	4.							

14. Special Handling Instructions and Additional Information
1-CI2005WIX (6) PCB Debris Brick & Asphalt/ Storage Start Date 6/18/12 Container number 3070

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: [illegible] — Signature: [illegible] — Month 06 Day 20 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Kevin Ellinston — Signature: [illegible] — Month 6 Day 20 Year 12

Transporter 2 Printed/Typed Name: Monte Miles — Signature: [illegible] — Month 06 Day 21 Year 12

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. D010 2. 3. 4.

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: David Tornachi — Signature: [illegible] — Month 6 Day 25 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 008027775555K, Line Item 1 has been landfilled on

June 25th, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: _____

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: MAD 001 963 263
2. Page 1 of 1
3. Emergency Response Phone: (800) 535-5053
4. Manifest Tracking Number: 010343131 JJK

5. Generator's Name and Mailing Address: HARVARD UNIVERSITY
ATTN: ENV. AFFAIRS
46 BLACKSTONE STREET
CAMBRIDGE, MA 02139
Generator's Phone: (617) 496-9152

Generator's Site Address (if different than mailing address): 1563 MASSACUSETTS AVE, CAMBRIDGE, MA 02138

6. Transporter 1 Company Name: GOULET TRUCKING, INC — U.S. EPA ID Number: MAC 300 006 038

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

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 PCB1	13. Waste Codes MA02
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, 9, PGIII, ERG #171	1	CM	7	T		
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
1. CT250 [illegible] (S) PCB DEBRIS - BRICK, ASPHALT & METAL / STORAGE START DATE 6-1-2012 CONTAINER NUMBER 3086, EST YARDS 25
TRAILER 118966 NY TRACTOR 84168 MA / PLACARDS TENDED

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: GORDON REYNOLDS — Signature: Gordon R Reynolds — Month 8 Day 17 Year 2012

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Glen Wood — Signature: [signature] — Month 8 Day 17 Year 12
Transporter 2 Printed/Typed Name: Randy Purinton — Signature: [signature] — Month 8 Day 20 Year 12

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 8,327 Kg or per Glenn Topping @ EQNE 8/21/12 JV
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. PCB 2. 3. 4.

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: Mark Wady — Signature: Mark Wady — Month 8 Day 21 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB S.I.J

and specified on Manifest # 610373 131 JDK, Line Item 1 has been landfilled on

August 21, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Wh

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: MAD 001 963 263
2. Page 1 of 1
3. Emergency Response Phone: (800) 535-5053
4. Manifest Tracking Number: 010343132 JJK

5. Generator's Name and Mailing Address: HARVARD UNIVERSITY
ATTN: ENV. AFFAIRS
46 BLACKSTONE STREET
CAMBRIDGE, MA 02139
Generator's Phone: (617) 496-9152

Generator's Site Address (if different than mailing address): 1563 MASSACUSETTS AVE, CAMBRIDGE, MA 02138

6. Transporter 1 Company Name: GOULET TRUCKING, INC — U.S. EPA ID Number: MAC 000 006 038

7. Transporter 2 Company Name: — U.S. EPA ID Number:

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

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 PCB1	MA02
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, 9, PGIII, ERG #171	1	CM	EST. 11818	K		
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
1. C125050WDL/ (S) PCB DEBRIS - BRICK, ASPHALT & METAL / STORAGE START DATE 1-1-2019 CONTAINER NUMBER 3141, EST YARDS 25
TRAILER # 1189C6NY; TRACTOR 84168MA / PLACARDS TENDERED /

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: GORDON R. REYNOLDS JR — Signature: [signature] — Month 8 Day 17 Year 2012

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Ebun Wood — Signature: [signature] — Month 8 Day 17 Year 12
Transporter 2 Printed/Typed Name: CARLTON R LOOMIS — Signature: [signature] — Month 8 Day 22 Year 12

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. PCB 2. 3. 4.

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: Jacob Wilson — Signature: [signature] — Month 08 Day 23 Year 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB solid

and specified on Manifest # 010393132 JVK, Line Item 1 has been landfilled on

August 23, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: Mark Wilm

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: MAD 001 963 263
2. Page 1 of 1
3. Emergency Response Phone: (800) 535-5053
4. Manifest Tracking Number: 010343234 JJK

5. Generator's Name and Mailing Address: HARVARD UNIVERSITY
ATTN: ENV. AFFAIRS
46 BLACKSTONE STREET
CAMBRIDGE, MA 02139
Generator's Phone: (617) 496-9152

Generator's Site Address (if different than mailing address): 1563 MASSACUSETTS AVE
CAMBRIDGE, MA 02138

6. Transporter 1 Company Name: GOULET TRUCKING, INC
U.S. EPA ID Number: MAC 300 006 038

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

8. Designated Facility Name and Site Address: WAYNE DISPOSAL, INC
49350 N I-94 SERVICE DRIVE
BELLEVILLE, MI 48111
Facility's Phone: (800) 592-5489
U.S. EPA ID Number: MID 048 090 633

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 PCB1	13. Waste Codes MA02
X	1. RQ, UN3432, Polychlorinated biphenyls, solid, 9, PGIII, ERG #171	01	CM				
	2.						
	3.						
	4.						

14. Special Handling Instructions and Additional Information
1. C125059WDI / (5) PCB DEBRIS - BRICK, ASPHALT & METAL / STORAGE START DATE 7/18, CONTAINER NUMBER 378, EST YARDS 25

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: LANCE D. Schumacher
Signature: [signature]
Month 8 Day 17 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Glenn Wood
Signature: [signature]
Month 8 Day 17 Year 12

Transporter 2 Printed/Typed Name: Randy Turiston
Signature: [signature]
Month 8 Day 20 Year 12

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 8,327 kg OK per Glenn Turiston @ EQUE 8/21/12 JV
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. PCB
2.
3.
4.

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: Mark Wells
Signature: Mark Wells
Month 8 Day 21 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 010393293 JJK, Line Item 1 has been landfilled on

August 21, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

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: MAD980508563
2. Page 1 of 1
3. Emergency Response Phone: 1-800-424-9300
4. Manifest Tracking Number: 010233601 JJK

5. Generator's Name and Mailing Address: Harvard University, 1 Bow Street, Cambridge, MA 02138
Generator's Site Address (if different than mailing address): 1583 Massachusetts Ave, Cambridge MA 02138
Generator's Phone:

6. Transporter 1 Company Name: Goulet Trucking, Industrial Dr. S. Deerfield, MA 413-665-1283
U.S. EPA ID Number: MAC 300006038

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

8. Designated Facility Name and Site Address: Wayne Disposal, Inc Site 2 Landfill, 49350 N I-94 Service Drive, Belleville, MI 48111
U.S. EPA ID Number: MID048090639
Facility's Phone: 800-592-6489

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
X	1. NA, UN3432, Polychlorinated Diphenyls, solid, mixture, 9, PGIII, ERG#171	1	CM	2,300	KP K	PCB1 MA02
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: (8) PCB Metal / Storage Start Date: 7-1-2012 Container number 4014 EST TRUCK # 81774 MA
Yards
WEIGHT IS ESTIMATED; CHEMTREC CUSTOMER - HARVARD U. PLACARDS TENDERED

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: GORDON R. REYNOLDS JR.
Signature
Month 09 Day 26 Year 2012

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Jordan Bak
Signature
Month 9 Day 26 Year 2012
Transporter 2 Printed/Typed Name: Jim Mescoe
Signature
Month 10 Day 3 Year 12

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Actual weight 1,045 kg OK per Alternative approval CBONE 10/5/12
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.

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: Charles Jungel
Signature
Month 10 Day 04 Year 12

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

CERTIFICATE OF DISPOSAL

FOR MANIFESTED PCB WASTE

This certificate is to verify the wastes identified as PCB Solid

and specified on Manifest # 010233601 JJK, Line Item 1 has been landfilled on

Oct 4, 2012 in accordance with all local, state and federal regulations by:

Wayne Disposal, Inc.

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111
Telephone: 1-800-KWALITY (592-5489)
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy. I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: [signature]

APPENDIX F

PCB Waste Shipment Summary

Pound Hall, Cambridge, Massachusetts

TOTAL BUILDING MATERIAL VOLUME DISPOSED OF AT MINERVA

Manifest Number	Volume (kg)	Volume (lb)	Volume (tons)	Containers
B10223	21,700	47,740	23.9	1 trailer
B10224	24,009	52,820	26.4	1 trailer
B10226	36,964	81,320	40.7	1 trailer
B10225	38,055	83,720	41.9	1 trailer
B09910	52,482	115,460	57.7	1 trailer
B10249	40,555	89,220	44.6	1 trailer
B09909	37,155	81,740	40.9	1 trailer
B10250	39,355	86,580	43.3	1 trailer
B09905	36,818	81,000	40.5	1 trailer
B09908	28,555	62,820	31.4	1 trailer
B09900	34,882	76,740	38.4	1 trailer
B09907	22,973	50,540	25.3	1 trailer
B09903	34,764	76,480	38.2	1 trailer
B09892	39,282	86,420	43.2	1 trailer
B09895	40,873	89,920	45.0	1 trailer
B09899	41,573	91,460	45.7	1 trailer
B09898	34,336	75,540	37.8	1 trailer
B09904	44,018	96,840	48.4	1 trailer
B09897	35,545	78,200	39.1	1 trailer
B10227	42,527	93,560	46.8	1 trailer
B09906	40,327	88,720	44.4	1 trailer
B09896	20,736	45,620	22.8	1 trailer
B09901	46,755	102,860	51.4	1 trailer
B09888	31,782	69,920	35.0	1 trailer
B09890	43,182	95,000	47.5	1 trailer
B09894	38,682	85,100	42.6	1 trailer
B09891	34,291	75,440	37.7	1 trailer
B09883	41,882	92,140	46.1	1 trailer
B0971	34,500	75,900	38.0	1 trailer
B09874	50,191	110,420	55.2	1 trailer
B09889	34,673	76,280	38.1	1 trailer
B09875	29,236	64,320	32.2	1 trailer
B09872	30,982	68,160	34.1	1 trailer
B09870	42,427	93,340	46.7	1 trailer
B09876	22,009	48,420	24.2	1 trailer
B09873	25,809	56,780	28.4	1 trailer
B09877	24,382	53,640	26.8	1 trailer
B09878	60,018	132,040	66.0	1 trailer
BO9879	53,809	118,380	59.2	1 trailer

B09902	32,082	70,580	35.3	1 trailer
B09882	39,545	87,000	43.5	1 trailer
B09869	33,900	74,580	37.3	1 trailer
B09880	34,400	75,680	37.8	1 trailer
B09881	32,218	70,880	35.4	1 trailer
10757	40,718	89,580	44.8	1 trailer
10758	31,873	70,120	35.1	1 trailer
10760	38,782	85,320	42.7	1 trailer
10761	42,891	94,360	47.2	1 trailer
10765	45,982	101,160	50.6	1 trailer
10763	42,973	94,540	47.3	1 trailer
10759	30,464	67,020	33.5	1 trailer
10766	45,618	100,360	50.2	1 trailer
10764	49,718	109,380	54.7	1 trailer
10762	35,455	78,000	39.0	1 trailer
10768	37,609	82,740	41.4	1 trailer
10769	42,464	93,420	46.7	1 trailer
10770	55,327	121,720	60.9	1 trailer
10772	45,927	101,040	50.5	1 trailer
10771	44,364	97,600	48.8	1 trailer
10773	21,318	46,900	23.5	1 trailer
B09883	17,991	39,580	19.8	1 trailer
--	20,573	45,260	22.6	1 trailer
10756	26,400	58,080	29.0	1 trailer
Subtotal	*2,320,682*	*5,105,500*	*2,553*	*63 trailers*

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 10223

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER'S NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
City 1365 Main St, Waltham, MA 02451 State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title See Attached *Signature* *Month/ Day / Year*

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 26[illegible]

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility Kim Roberts *Signature* [signature] *Month/ Day / Year* 7/26/12

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN 8000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-868-3435 Fax: 330-868-3488	Customer Name **North American Site Dvlp Inc.**	Ticket # Date: Time:	262259 07/26/2012 9:03:21 AM

Customer #:	**10001**	Gross Weight:	80160
Transporter:	Weigle/CTI	Tare Weight:	32420
Truck Type:	Trailer dump	Net Weight(tons):	**23.87**
Truck License #:	**350**	Volume Recieved(yards):	65
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1069~~
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons. _____

Driver: W WRIGHT Minerva Enterprises Representative:

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 10224

1. FACILITY NAME Pound Hall
Address ~~1653~~ 1563 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax: 330-866-3488
Onsite Disposal: Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
~~Construction & Demolition Debris~~ Containing <50 PPM PCB ~~Bulk Product~~ Waste	1	Trailer	60

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: DENNIS J. QUEREUX /PM
Signature: [signature]
Month/ Day / Year: 7/25/12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Tru (Coordinators)
Address Lynden PA Phone 570-326-5438 Fax
Printed or Typed Name & Title: Sheldon Morris
Date: 7-25-12
Signature: Sheldon Morris

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title
Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP — If Yes (LIST & Identify Transporter 10.A: Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except Item 12 notes.
~~MINERVA Ent~~ 262287
TICKET # ~~Waynesburg OH~~

12. Waste Facility Discrepancy Indication Space
Minerva Enterprises
Waynesburg OH

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Kim Roberts
Signature: [signature]
Month/ Day / Year: 7/26/12

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White, Yellow, Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

2

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3468

Customer Name
North American Site Dvlp Inc.

Ticket #: **262287**
Date: **07/26/2012**
Time: 12:33:55 PM

Customer #:	**10001**	Gross Weight:	85440
Transporter:	CTI	Tare Weight:	32620
Truck Type:	Trailer dump	Net Weight(tons):	**28.41**
Truck License #:	**564**	Volume Recieved(yards):	60
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1000~~
ME REP/P.O.#:	kor		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: [signature] Minerva Enterprises Representative: [signature]

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

2

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 10226

1. FACILITY NAME Pound Hall
Address ~~1633~~ 1563 Massachusetts Ave
City Cambridge, MA 02138 State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax: 330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials: ~~Construction & Demolition Debris~~ Containing <50 PPM PCB ~~Bulk Product~~ Waste
NON TSCA per Profile

6. Containers No: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons): 70

8. Special Handling Instructions & Additional Information:

9. Generator - Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: DENNIS J. QUEREUP /PM Signature: [signature] Month Day Year: 7/25/12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Trucking Co.
Address Linden, Pa Phone Fax
Printed or Typed Name & Title: Chris Franciko Date: 7-25-12
Signature: Chris Franciko

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-LISTED materials ADDED or REMOVED during transit? (EXCEPT correcting Material Weight at loading location.)
If NO SKIP — If Yes (LIST & Identify Transporter -10.A: Trans-1 or 10.B: Trans-2.) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except Item 12 (above).
TICKET # 262585
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Kim Roberts Signature: K Roberts Month Day Year: 7/26/12

DISPOSAL FACILITY

12. Waste Facility Discrepancy Indication Space

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)

3

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3466	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	**262285** **07/26/2012** 12:25:49 PM

Customer #:	**10001**	Gross Weight:	113840
Transporter:	weigle/C&P	Tare Weight:	32620
Truck Type:	Trailer dump	Net Weight(tons):	**40.66**
Truck License #:	**533**	Volume Recieved(yards):	70
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	1000
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons. _____

Driver: Chris Francisco Minerva Enterprises Representative: [signature]

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

3

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 10225

1. FACILITY NAME Pound Hall
Address ~~1653~~ Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax: 330-866-3488
Onsite Disposal Yes, or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials: Construction & Demolition Debris Containing <50 PPM PCB ~~Bulk Product~~ Waste
NON TSCA per profile

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons): 70 yds

8. Special Handling Instructions & Additional Information:

9. Generator - Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: DENNIS J. QUEREUX / PM
Signature: [signature]
Month/ Day / Year: 7/25/12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Trucking
Address 274 Reynolds Rd
Linden, PA 17744
Phone 570 321 5438
Fax
Printed or Typed Name & Title: Jared Mitchell Sr
Date: 7-25-12
Signature: [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP
If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except Item 12 notes.
TICKET # 262284

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Sharon Dunne
Signature: [signature]
Month/ Day / Year: 7/26/12

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

4

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-868-3435
Fax: 330-868-3480

Customer Name
North American Site Dvlp Inc.

Ticket #: 202284
Date: 07/26/2012
Time: 12:16:46 PM

Customer #:	10001	Gross Weight:	114160
Transportarr:	Weigle Trucking	Tare Weight:	30440
Truck Type:	Trailer dump	Net Weight(tons):	41.86
Truck License #:	008	Volume Recieved(yards):	70
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	1006
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

4

E SHIPMENT RECORD

DOCUMENT NUMBER B 09910

CILITY NAME Pound Hall
ress 1653 Massachusetts Ave
1563 Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal: Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
~~Construction & Demolition Debris~~ Containing <50 PPM PCB ~~Bulk Product~~ Waste JAR Non TSCA per profile		Trailer	80

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: DENNIS J QUERECIA PROJ EXEC
Signature
Month Day Year: 7/25/12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Trucking LB 2803
Address 304 Gates Mountain Road Howard PA 16841
Phone Fax 814.355.4283
Printed or Typed Name & Title: Charles Bock
Signature: Charles Bock
Date:

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title
Signature
Date:

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP — If Yes (LIST & identify Transporter -10.A ; Trans-1 or 10.B; Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except Item 12 notes.
TICKET # 262353
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name – WDS Facility: Kim Roberts
Signature
Month Day Year: 7/27/12

12. Waste Facility Discrepancy Indication Space

DISPOSITAL

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

5

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3488	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	202353 07/27/2012 10:32:52 AM

Customer #	10001	Gross Weight:	149860
Transporterr:	LG Trucking	Tare Weight:	~~9440~~ 34400 lb
Truck Type:	Trailer dump	Net Weight(tons):	~~73.21~~ 57.73 lb
Truck License #:	2803	Volume Recieved(yards):	80
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	1000
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: Charles Beck Minerva Enterprises Representative: K. Roberts

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

5

262342

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 10249

1. FACILITY NAME Pound Hall
Address ~~1658~~ Massachusetts Ave
Cambridge, MA 02138
City 1563 State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
City 1365 Main St, Waltham, MA 02451 State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC
8955 Minerva Road SE
P.O. Box 709
Waynesburg, Ohio 44688-0709
Phone: 330-866-3435
Fax: 330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP
Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB ~~[illegible]~~ ~~[illegible]~~ Waste
Non TSCA per profile

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons) 75

8. Special Handling Instructions & Additional Information:

9. Generator - Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: DENNIS J. QUEREUX PE
Signature: [signature]
Month/ Day / Year: 7/26/12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Weigle Trucking
274 Reynolds Rd
Linden Pa
Phone Fax
Printed or Typed Name & Title: Robert Bean
Date: 7-26-12
Signature: Robert Bean

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title
Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP
If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except Item 12 notes.
TICKET #
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Kristina Loftis
Signature: [signature]
Month/ Day / Year: 7/27/12

12. Waste Facility Discrepancy Indication Space

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

6

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3468

Customer Name
North American Site Dvlp Inc.

Ticket #: 202342
Date: 07/27/2012
Time: 9:24:22 AM

Customer #:	**10001**	Gross Weight:	120880
Transportorr:	Wgt/B&K Trucking	Tare Weight:	31660
Truck Type:	Trailer dump	Net Weight(tons):	**44.61**
Truck License #:	**7734**	Volume Recieved(yards):	75
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pond Hall	Minerva Job #:	:ambridge,ma*c&d
ME REP/P.O.#:	kll		

Accepted: Yes If No, this material was rejected for the following reasons.

Driver: Robert Beam

Minerva Enterprises Representative:

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

6

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09909

1. FACILITY NAME Pound Hall
Address ~~1653~~ Massachusetts Ave
Cambridge, MA 02138
City 6563 State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
Operator's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC
8955 Minerva Road SE
P.O. Box 709
Waynesburg, Ohio 44688-0709
Phone: 330-866-3435
Fax: 330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency MA DEP
Address One Winter St
City Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB ~~Bulk~~ ~~Waste~~ NON TSCA Per Profile	1	Trailer	65

8. Special Handling Instructions & Additional Information:

9. Generator - Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: DENNIS J. QUERELX / PM
Signature: [signature]
Month/Day/Year: 7 26 12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
WEIGLE / WEISEL
Address 326 REYNOLDS RD LINDEN PA
Phone 508 326 4584
Fax
Printed or Typed Name & Title: JACK WEISEL
Date: 7 26 12
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address
Phone
Fax
Printed or Typed Name & Title
Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP: If YES, LIST & Identify Transporter -10.A: Trans-1 or 10.B: Trans-2 | Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except Item 12 notes.
TICKET # 262322
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Sharon Dunne
Signature: S Dunne
Month/Day/Year: 7/27/12

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

7

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White, Yellow, Pink Gold)
... Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-868-3435 Fax: 330-866-3468	Customer Name **North American Site Dvlp Inc.**	Ticket #: **202322** Date: **07/27/2012** Time: 8:01:04 AM

Customer #	**10001**	Gross Weight:	111680
Transporterr:	Weigle Trucking /	Tare Weight:	29940
Truck Type:	Trailer dump	Net Weight(tons):	**40.87**
Truck License #:	**408**	Volume Recieved(yards):	65
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	1000
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

7

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 10250

1. FACILITY NAME Pound Hall
Address ~~1653~~ 1563 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax: 330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers No:	Type:	7. Total Quantity (Cubic Yards or Tons)
~~Construction & Demolition Debris~~ Containing <50 PPM PCB ~~Bulk Product~~ Waste Non TSCA per profile	1	Trailer	~5/10

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: DENNIS J. QUEREUX /PM Signature: [signature] Month Day / Year: 9/24/12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
weigle trucking
Address 274 Reynolds Rd Lindon PA 17744 Phone 570-326-4445 Fax
Printed or Typed Name & Title: John walter Date: 9/26/12
Signature: [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP — If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #
Certification of Receipt of asbestos materials covered by this manifest except as noted in item 12.
Printed/typed name - WDS Facility Signature Month Day / Year

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - (Green: Gen. REMAINS at Shipment)

8

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-868-3435 Fax: 330-866-3488	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	**282312** **07/27/2012** 7:25:47 AM

Customer #:	**10001**	Gross Weight:	118440
Transporter:	Wgt/Whitmer Fuels	Tare Weight:	32860
Truck Type:	Trailer dump	Net Weight(tons):	**43.29**
Truck License #:	**12**	Volume Recieved(yards):	70
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	cambridge,ma*c&d
ME REP/P.O.#:	kll		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

8

E SHIPMENT RECORD

DOCUMENT NUMBER B 09905

FACILITY NAME Pound Hall
Address 1563 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC
8955 Minerva Road SE
P.O. Box 709
Waynesburg, Ohio 44688-0709
Phone: 330-866-3435
Fax: 330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP
Address One Winter St
City: Boston State MA Zip

5. Description of Materials: Construction & Demolition Debris Containing <50 PPM PCB ~~Bulk~~ ~~Product~~ Waste Non TSCA per profile
6. Containers NO: 1 TYPE: Trailer
7. Total Quantity (Cubic Yards or Tons) 50

8. Special Handling Instructions & Additional Information:

9. Generator - Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: DENNIS J. QUEREUP / PM
Signature
Month Day / Year: 7/26/12

TRANSPORTER

10.A Name of Transporter-1 - Verifies Receipt of above described materials
Weigle Trucking
Address 274 Reynolds Rd
Linden, PA 17744
Phone 570-326-5438
Fax
Printed or Typed Name & Title: Bryan Hayter
Date: 7-26-12
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address
Phone
Fax
Printed or Typed Name & Title
Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP
If Yes (LIST & Identify Transporter - 10.A Trans-1 or 10.B Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except Item 12 notes.
TICKET # 262309
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Kim Roberts
Signature
Month Day / Year: 7/27/12

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-868-3435
Fax: 330-868-3468

Customer Name
North American Site Dvlp Inc.

Ticket #: 282309
Date: 07/27/2012
Time: 7:22:39 AM

Customer #:	10001	Gross Weight:	114000
Transporter:	Weigle/Whitmer	Tare Weight:	33000
Truck Type:	Trailer dump	Net Weight(tons):	40.5
Truck License #:	1	Volume Recieved(yards):	50
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	1000
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons. _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

9

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09908

1. FACILITY NAME Pound Hall
Address 1033 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste Non TSCA per onsite	1	Trailer	75

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedtyped name & title: [illegible] Signature: [illegible] Month/ Day / Year

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Trans. Truck 563 - [illegible]
Address Phone Fax
Williamsport PA 570-326-[illegible]
Printed or Typed Name & Title Date:
Signature [illegible] 7-27-12

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Coordinated Trans. Truck 563 - [illegible]
Address Phone Fax
Box 30
N 30 Everett PA 717-639-[illegible]
Printed or Typed Name & Title Date:
Signature [illegible] 7-27-12

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

DISPOSAL FACILITY

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 302387
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedtyped name - WDS Facility: [illegible] Signature: [illegible] Month/ Day / Year: 7-28-12

12. Waste Facility Discrepancy Indication Space

10

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3480

Customer Name
North American Site Dvlp Inc.

Ticket #: **262387**
Date: **07/28/2012**
Time: 9:16:47 AM

Customer #:	**10001**	Gross Weight:	90400
Transporteir:	Wgt/Coordinators I	Tare Weight:	27580
Truck Type:	Trailer dump	Net Weight(tons):	**31.41**
Truck License #:	**563**	Volume Recieved(yards):	75
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#:	kll		

Accepted: Yes If No, this material was rejected for the following reasons. _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

10

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09900

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard C
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0303

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste Non TSCA per profile	1	Trailer	90

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title *Signature* *Month/ Day / Year*

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Green Umpire Phone 484 256 2408 Fax
101 Mine Rd
Bowers Pa 19511
Printed or Typed Name & Title Date: 7/27/12
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11.ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 90232

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility *Signature* *Month/ Day / Year* 7-28-12

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3489	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	202382 07/28/2012 8:09:16 AM

Customer #	10001	Gross Weight:	110960
Transporter:	Grims Hauling	Tare Weight:	34220
Truck Type:	Trailer dump	Net Weight(tons):	38.37
Truck License #:	8600	Volume Recieved(yards):	90
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#	xll		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

11

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09907

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB ~~Product~~ Waste Non TSCA per profile	1	Trailer	100

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title: [illegible] Signature: [signature] Month/ Day / Year: [illegible]

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address 7515 RT 30 Irwin, MI Phone 724-564-2116 Fax
Printed or Typed Name & Title: Justin Wright Truck Driver Date: 7-27-12
Signature [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.

DISPOSAL FACILITY

TICKET # 362442

12. Waste Facility Discrepancy Indication Space

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility: [illegible] Signature: [signature] Month/ Day / Year: 7/30/12

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

12

MINERVA ENTERPRISES, IN 9000 Minerva Rd P.O. Box 709 Waynesburg, OH 44688 Ph. 330-866-3435 Fax: 330-866-3400	Customer Name **North American Site Dvlp Inc.**	Ticket # Date Time:	202442 07/30/2012 11:53:43 AM

Customer #:	10001	Gross Weight:	83160
Transporter:	Coordinators INC	Tare Weight:	32620
Truck Type:	Trailer dump	Net Weight(tons):	25.27
Truck License #:	528	Volume Recieved(yards):	60
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1900~~
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

12

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09903

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste	1	Trailer	

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title *Signature* *Month/ Day / Year*

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11.ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

DISPOSAL FACILITY

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 20240
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility *Signature* *Month/ Day / Year*
K. P. 7/2/10

12. Waste Facility Discrepancy Indication Space

13

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-868-3435
Fax: 330-868-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: **282402**
Date: **07/30/2012**
Time: 7:49:55 AM

Customer #:	**10001**	Gross Weight:	110700
Transporterr:	Grims Hauling	Tare Weight:	34220
Truck Type:	Walking Floor	Net Weight(tons):	**38.24**
Truck License #:	**6801**	Volume Recieved(yards):	100
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1080~~
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons. _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

13

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09892

1. FACILITY NAME Pound Hall
Address 1655 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard C
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB [illegible] Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title [illegible] *Signature* [illegible] *Month/ Day / Year* 7/24/12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Trucking Co
Address 474 R. Molds Rd Phone [illegible] Fax [illegible]
Linden Pa 17144

Printed or Typed Name & Title Duane Granite Date: 7-18-12
Signature [illegible]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax

Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.

TICKET # [illegible]

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility *Signature* *Month/ Day / Year*

14

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-868-3435
Fax: 330-868-3468

Customer Name
North American Site Dvlp Inc.

Ticket #: 202432
Date: 07/30/2012
Time: 10:35:24 AM

Customer #:	10001	Gross Weight:	120720
Transportor:	Weigle Trucking	Tare Weight:	34300
Truck Type:	Trailer dump	Net Weight(tons):	43.21
Truck License #:	2	Volume Recieved(yards):	100
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1000~~
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

14

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09895

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President & Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-0259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC — P.O. Box 709 — Phone: 330-866-3435
8955 Minerva Road SE — Waynesburg, Ohio 44688-0709 — Fax:330-866-3488

Onsite Disposal: Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste	1	Trailer	

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title Signature Month/ Day / Year

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address 274 Reynolds Road
Phone Fax
Printed or Typed Name & Title Date:
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

DISPOSAL

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility Signature Month/ Day / Year

12. Waste Facility Discrepancy Indication Space

15

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

15

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3488	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	282489 07/31/2012 9:37:06 AM

Customer #:	10001	Gross Weight:	124520
Transporter:	Weigle Trucking	Tare Weight:	34600
Truck Type:	Trailer dump	Net Weight(tons):	44.98
Truck License #:	4	Volume Recieved(yards):	65
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1000~~
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

15

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09899

1. FACILITY NAME Pound Hall
Address 7053 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB [illegible] Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title [illegible] *Signature* [signature] *Month/ Day / Year*

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address 274 Reynolds RD Phone 1-(70) 326-5438 Fax
Linden PA
Printed or Typed Name & Title Warren Mayer Date: 1-30-12
Signature Warren Mayer

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility *Signature* *Month/ Day / Year*

16

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9009 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3460

Customer Name
North American Site Dvlp Inc.

Ticket #: 262477
Date: 07/31/2012
Time: 8:34:14 AM

Customer #:	10001	Gross Weight:	126560
Transporter:	Weigle Trucking /	Tare Weight:	35100
Truck Type:	Trailer dump	Net Weight(tons):	45.73
Truck License #:	116	Volume Recieved(yards):	80
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1030~~
ME REP/P.O.#	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

16

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09898

1. FACILITY NAME Pound Hall
Address 1093 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard C
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB [illegible] Waste [illegible]

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons) 100

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title [illegible] Signature [illegible] Month/ Day / Year

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Grimes Hauling 101 Mine Road Boyers Pa 19511 Phone 484-256-2428 Fax

Printed or Typed Name & Title Kurt Hicks Date: 7/30/[illegible]
Signature [illegible]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax

Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 262475

12. Waste Facility Discrepancy Indication Space

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility [illegible] Signature [illegible] Month/ Day / Year 7/[illegible]

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

17

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 708
Waynesburg, OH 44688
Ph: 330-868-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: **262475**
Date: **07/31/2012**
Time: 8:17:49 AM

Customer #	**10001**	Gross Weight:	109120
Transporter:	Grims Hauling	Tare Weight:	33580
Truck Type:	Walking Floor	Net Weight(tons):	**37.77**
Truck License #:	**6600**	Volume Recieved(yards):	100
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1000~~
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09904

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB BULK Product Waste Non TSCA [illegible]

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons) 75

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title [illegible] Signature [illegible] Month/ Day / Year

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Trucking
Address 274 Renegade Rd Phone Fax
Lindsay PA

Printed or Typed Name & Title Michael Jones Date: 7-27-12
Signature [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax

Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 262462

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility [illegible] Signature [signature] Month/ Day / Year 7-31-12

18

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3436
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: 282483
Date: 07/31/2012
Time: 7:12:32 AM

Customer #	10001	Gross Weight:	127400
Transporter:	Wgt/LG Trucking	Tare Weight:	30860
Truck Type:	Trailer dump	Net Weight(tons):	48.42
Truck License #:	2802	Volume Recieved(yards):	75
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	:ambridge,mat*c&d
ME REP/P.O.#:	kll		

Accepted: Yes If No, this material was rejected for the following reasons:

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

18

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09897

1. FACILITY NAME
Address Pound Hall
1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
City 1365 Main St, Waltham, MA 02451 State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB [illegible] Waste Non TSC Aper Profile	1	Trailer	70

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title [illegible] Signature [illegible] Month/ Day / Year

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Weigh Trucking
274 Reynolds Rd
Linden, PA 17744
Phone 570-326-5438 Fax
Printed or Typed Name & Title Bryan Hart / Driver Date: 7-30-12
Signature [illegible]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 262460

12. Waste Facility Discrepancy Indication Space

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility Kristin White Signature [illegible] Month/ Day / Year 7-31-12

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

19

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3400	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	262400 07/31/2012 7:07:50 AM

Customer #:	**10001**	Gross Weight:	111200
Transporter:	Wgt/Whitmer Fuels	Tare Weight:	33000
Truck Type:	Trailer dump	Net Weight(tons):	**39.1**
Truck License #:	1	Volume Recieved(yards):	70
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	cambridge,ma*c&d
ME REP/P.O.#:	kll		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 10227

1. FACILITY NAME Pound Hall
Address ~~1653~~ Massachusetts Ave
Cambridge, MA 02138
1563
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3433
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax: 330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials ~~Construction & Demolition Debris~~ Containing <50 PPM PCB ~~[illegible]~~ ~~[illegible]~~ Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons) 75

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: DENNIS J. QUERECY PM
Signature: [signature]
Month/Day/Year: 7/25/12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weisle Trucking
Address 274 Reynolds Rd.
Linden PA.
Phone Fax
Printed or Typed Name & Title: STUART DIXINGTON
Date: 7/25/12
Signature: [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter: 10.A: Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except Item 12 notes.
TICKET # 262459
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Kim Roberts
Signature: [signature]
Month/Day/Year: 7/31/12

12. Waste Facility Discrepancy Indication Space

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

20

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-868 3435 Fax: 330-866-3468	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	282459 07/31/2012 7:01:20 AM

Customer #:	10001	Gross Weight:	123680
Transporterr:	Weigle/J&A Haulin	Tare Weight:	30120
Truck Type:	Trailer dump	Net Weight(tons):	46.78
Truck License #:	118	Volume Recieved(yards):	75
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	1000
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

20

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09906

1. FACILITY NAME Pound Hall
Address 1355 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
City 1365 Main St, Waltham, MA 02451 State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB ~~[illegible]~~ ~~[illegible]~~ Waste Non-TSCA per profile

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons) 10

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title [illegible] Signature [signature] Month/ Day / Year [illegible]

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address [illegible] Phone Fax
Linden Pa
Printed or Typed Name & Title Date: [illegible]
Signature [signature] 7-2-12

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 262457

12. Waste Facility Discrepancy Indication Space

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility [illegible] Signature [signature] Month/ Day / Year 7-31-12

21

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3468	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	**282457** **07/31/2012** 6:52:31 AM

Customer #:	**10001**	Gross Weight:	119420
Transporter:	Wgt/SW Trucking	Tare Weight:	30700
Truck Type:	Trailer dump	Net Weight(tons):	**44.36**
Truck License #:	**1144**	Volume Recieved(yards):	75
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	cambridge,ma*c&d
ME REP/P.O.#:	kll		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

21

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09896

1. FACILITY NAME
Address: Pound Hall
1653 Massachusetts Ave
City: Cambridge, MA 02138 State Zip

OWNER's NAME: President & Fellows of Harvard College
Address: 18 Everett Ave
City: Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-0259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address: NASDI, LLC
City: 1365 Main St, Waltham, MA 02451 State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC — P.O. Box 709 — Phone: 330-866-3435
8955 Minerva Road SE — Waynesburg, Ohio 44688-0709 — Fax:330-866-3488

Onsite Disposal: Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP
Address: One Winter St
City: Boston State: MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste	1	Trailer	

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title — *Signature* — *Month/ Day / Year*

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address: [illegible] Phone: [illegible] Fax: [illegible]
Printed or Typed Name & Title: [illegible] Date: [illegible]
Signature: [illegible]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address: 274 Reynolds Rd Phone: Fax:
Printed or Typed Name & Title: Date:
Signature:

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

DISPOSAL FACILITY

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # [illegible]
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility — *Signature* — *Month/ Day / Year*

12. Waste Facility Discrepancy Indication Space

22

22

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph. 330-866-3435
Fax. 330-866-3499

Customer Name
North American Site Dvlp Inc.

Ticket #: 262497
Date: 07/31/2012
Time: 10:31:23 AM

Customer #:	10001	Gross Weight:	79020
Transporterr:	Weigle Trucking /	Tare Weight:	33400
Truck Type:	Trailer dump	Net Weight(tons):	22.81
Truck License #:	332	Volume Recieved(yards):	55
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	1000
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____
I certify that all materials meet Stark County/ohio EPA specifications.

Minerva Enterprises Representative: _____
This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

22

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09901

1. FACILITY NAME Found Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste	1	Trailer	

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedtyped name & title Signature Month/ Day / Year

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Lovejoy Trucking
Address 317 Rogers Rd Phone 570 326-5138 Fax
Lodi, PA
Printed or Typed Name & Title Paul Rickards Date: 7-27-12
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedtyped name - WDS Facility Signature Month/ Day / Year

12. Waste Facility Discrepancy Indication Space

DISCREPOLSIALY

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-868-3435
Fax: 330-868-3468

Customer Name
North American Site Dvlp Inc.

Ticket #: **262503**
Date: **07/31/2012**
Time: 11:27:33 AM

Customer #:	**10001**	Gross Weight:	132740
Transporter:	Weigle Trucking /R	Tare Weight:	29880
Truck Type:	Trailer dump	Net Weight(tons):	**51.43**
Truck License #:	**106**	Volume Recieved(yards):	75
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	1000
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

23

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09888

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City 1653 State Zip

OWNER's NAME President + Fellows of Harvard C
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste Non-TSCA	1	Trailer	100

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedtyped name & title: Dennis Quarry Manager
Signature:
Month/ Day / Year:

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title: Larry Reed Date: 7-31-10
Signature:

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11.ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSITAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 70037
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedtyped name - WDS Facility
Signature
Month/ Day / Year

12. Waste Facility Discrepancy Indication Space

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

24

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3463

Customer Name
North American Site Dvlp Inc.

Ticket #: **202537**
Date: **08/01/2012**
Time: 8:14:53 AM

Customer #:	**10001**	Gross Weight:	100360
Transporter:	Wgt/Weisle	Tare Weight:	30440
Truck Type:	Trailer dump	Net Weight(tons):	**34.96**
Truck License #:	**410**	Volume Recieved(yards):	60
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hill	Minerva Job #:	cambridge,ma*c&d
ME REP/P.O.#:	kll		

Accepted: Yes If No, this material was rejected for the following reasons:

Driver: Minerva Enterprises Representative:

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

24

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09890

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
1563
City State Zip

OWNER's NAME President & Fellows of Harvard College
Address 18 Everett Ave
Cambridge, MA 02138
City State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC
8955 Minerva Road SE
P.O. Box 709
Waynesburg, Ohio 44688-0709
Phone: 330-866-3435
Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: Boston
Address: MA
City: State Zip

5. Description of Materials Containing <50 PPM PCB Auth Project Waste
[illegible]

6. Containers NO: 1 Trailer TYPE:

7. Total Quantity (Cubic Yards or Tons) [illegible]

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title: Dennis Quenan Manager
Signature: [signature]
Month/ Day / Year: 1-31-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
[illegible]
Address [illegible]
Phone 570 [illegible]
Fax 5430
Printed or Typed Name & Title [illegible]
Date:
Signature [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address
Phone
Fax
Printed or Typed Name & Title
Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP
If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # [illegible]
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility: [illegible]
Signature: [signature]
Month/ Day / Year: [illegible]

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

25

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9300 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-868-3435
Fax: 330 868 3468

Customer Name
North American Site Dev Inc.

Ticket #: **262575**
Date: **08/01/2012**
Time: 12:56:07 PM

Customer #:	**10001**	Gross Weight:	125440
Transporter:	Weigle	Tare Weight:	30440
Truck Type:	Trailer dump	Net Weight(tons):	**47.5**
Truck License #:	6	Volume Recieved(yards):	70
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hill	Minerva Job #:	1000
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons:

Driver: [signature]

I certify that all materials meet Stark County/ohio EPA specifications.

Minerva Enterprises Representative: [signature]

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

25

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09894

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard C
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC
8955 Minerva Road SE
P.O. Box 709
Waynesburg, Ohio 44688-0709
Phone: 330-866-3435
Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP
Address One Winter St
City: Boston State MA Zip

5. Description of Materials: Construction & Demolition Debris Containing <50 PPM PCB Bulk Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedtyped name & title: [illegible] Signature: [illegible] Month/ Day / Year: 7-31-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weight Trucking Co
Address 274 Rt 105 PO
Lyndon Rd 17944
Phone Fax
Printed or Typed Name & Title: Dana Grande
Date:
Signature: [illegible]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

If NO SKIP

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # [illegible]
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedtyped name - WDS Facility: [illegible] Signature: [illegible] Month/ Day / Year: 8/1/12

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

26

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3408

Customer Name
North American Site Dvlp Inc.

Ticket #: **262570**
Date: **08/01/2012**
Time: 12:13:11 PM

Customer #:	**10001**	Gross Weight:	119400
Transporter:	Weigle Trucking	Tare Weight:	34300
Truck Type:	Trailer dump	Net Weight(tons):	**42.55**
Truck License #:	2	Volume Recieved(yards):	40
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pount Hall	Minerva Job #:	1080
ME REP/P.O.#:	ken		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

26

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09891

1. FACILITY NAME

Address: Pound Hall
1653 Massachusetts Ave
City: Cambridge, State: MA Zip: 02138

OWNER's NAME

Address: President + Fellows of Harvard College
18 Everett Ave
City: Cambridge, MA 02138 State: Zip:

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME

Address: NASDI, LLC
City: State: Zip: 1365 Main St, Waltham, MA 02451

Operator's Phone: 781-250-6710
OPERATOR's Fax:

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location

Minerva Enterprises, LLC — P.O. Box 709 — Phone: 330-866-3435
8955 Minerva Road SE — Waynesburg, Ohio 44688-0709 — Fax:330-866-3488

Onsite Disposal: Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)

Agency: MA DEP
Address: One Winter St
City: Boston
State: MA
Zip:

5. Description of Materials	6. Containers NO: TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk.		70

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedtyped name & title	Signature	Month/ Day / Year
Dennis Curreux Manager		7-31-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)

Weigle Trucking
Address: Lyndon, PA
Phone:
Fax:

Printed or Typed Name & Title: Chris Francisk
Date: 7-31-12
Signature: Chris Francisk

10.B Name of Transporter-2 (Verifies Receipt of above described materials)

Address:
Phone:
Fax:

Printed or Typed Name & Title:
Date:
Signature:

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)

If NO SKIP — If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

13. Waste Disposal Site Owner or Auth. Agent:

DISCREPANCY

Certification of Receipt of Asbestos Materials except item 12 notes.

TICKET #

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.

Printedtyped name - WDS Facility	Signature	Month/ Day / Year

12. Waste Facility Discrepancy Indication Space

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: 282551
Date: 08/01/2012
Time: 9:32:57 AM

Customer #:	**10001**	Gross Weight:	107960
Transporter:	Weigle/ C&P	Tare Weight:	32520
Truck Type:	Trailer dump	Net Weight(tons):	**37.72**
Truck License #:	**533**	Volume Recieved(yards):	70
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1000~~
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons.

Driver: Chris Francisco

Minerva Enterprises Representative:

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

27

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09893

1. FACILITY NAME Pound Hall
Address 1033 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB [illegible] Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title [illegible] Signature [signature] Month/ Day / Year 7-31-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Green Outlook (Eagle) 9 Angelo Dr Sparta, NJ Phone Fax
Printed or Typed Name & Title [illegible] Date: 7/31/12
Signature [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility Signature Month/ Day / Year

12. Waste Facility Discrepancy Indication Space

28

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: **262552**
Date: **08/01/2012**
Time: 9:31:30 AM

Customer #:	**10001**	Gross Weight:	127300
Transporter:	Weigle Trucking /	Tare Weight:	35160
Truck Type:	Trailer dump	Net Weight(tons):	**46.07**
Truck License #:	**108**	Volume Recieved(yards):	65
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1000~~
ME REF/P.O.#:	std		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

28

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09871

1. FACILITY NAME Pound Hall
Address 1600 Massachusetts Ave
1813 Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste Non TSCA PCB Waste	1	Trailer	70

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: Dennis Duggan Signature: Month/ Day / Year: 8-1-16

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address: 284 Rear St, Lawrence, MA 01724-1 Phone: 978-320-3481 Fax
Printed or Typed Name & Title: Brad Hoyt Date: 8-1-16
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP — If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

DISPOSAL FACILITY

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 262611
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Signature: Month/ Day / Year: 8/1/16

12. Waste Facility Discrepancy Indication Space

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

29

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph. 330-866-3435
Fax. 330-866-3489

Customer Name
North American Site Dvlp Inc.

Ticket #: 202010
Date: 08/02/2012
Time: 9:06:37 AM

Customer #:	10001	Gross Weight:	108300
Transporter:	Weigle/ Whitmer F	Tare Weight:	33000
Truck Type:	Trailer dump	Net Weight(tons):	37.95
Truck License #:	1	Volume Recieved(yards):	70
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1000~~ Pound Hall Yd h
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

29

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09874

1. FACILITY NAME Pound Hall
Address 1659 Massachusetts Ave
1663 Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
City 1365 Main St, Waltham, MA 02451 State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: Dennis Quervex
Signature: [signature]
Month/ Day / Year: 8-1-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address [illegible] Phone Fax
Printed or Typed Name & Title Date:
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name
SKIP

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #

12. Waste Facility Discrepancy Indication Space

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility Signature Month/ Day / Year

30

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330 868 3435 Fax: 330-868-3468	Customer Name **North American Site Dvlp Inc.**	Ticket #: 262614 Date: 08/02/2012 Time: 9:38:55 AM

Customer #:	10001	Gross Weight:	143000
Transporter:	Weigle Trucking	Tare Weight:	32580
Truck Type:	Trailer dump	Net Weight(tons):	55.21
Truck License #:	1	Volume Recieved(yards):	75
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

30

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09885

1. FACILITY NAME

Address 1563 Pound Hall
1650 Massachusetts Ave
City Cambridge, State MA Zip 02138

OWNER's NAME

Address President + Fellows of Harvard College
City 18 Everett Ave State Zip
Cambridge, MA 02138

Owner's Phone:
Owner's Fax: 617-495-8259
617-495-0595

GENERATOR

2. CONTRACTOR or OPERATOR's NAME

Address
City State NASDI, LLC Zip
1365 Main St, Waltham, MA 02451

Operator's Phone:
OPERATOR's Fax: 781-250-6600

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location

Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)

Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: Dennis Guarnaux Signature: [signature] Month/ Day / Year: 8-1-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)

Address Phone Fax

Printed or Typed Name & Title Date:

Signature [signature] 8-1-12

10.B Name of Transporter-2 (Verifies Receipt of above described materials)

Address Phone Fax

Printed or Typed Name & Title Date:

Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)

If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:

DISPOSAL FACILITY

Certification of Receipt of Asbestos Materials except item 12 notes.

TICKET #

12. Waste Facility Discrepancy Indication Space

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.

Printed/typed name - WDS Facility Signature Month/ Day / Year

31

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

31

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: 262609
Date: 06/02/2012
Time: 9:00:00 AM

Customer #:	**10001**	Gross Weight:	109860
Transporter:	Grims Hauling	Tare Weight:	33580
Truck Type:	Walking Floor	Net Weight(tons):	38.14
Truck License #:	**6600**	Volume Recieved(yards):	100
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	ambridge,ma"c&d
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____

I certify that all materials meet Stark County/ohio EPA specifications.

Minerva Enterprises Representative: _____

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09875

1. FACILITY NAME Pound Hall
Address ~~1653~~ Massachusetts Ave
1563 Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials ~~Construction & Demolition Debris~~ Containing <50 PPM PCB ~~Bulk~~ ~~Product~~ Waste NON TSCA per Profile

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: Dennis Quenvex
Signature: [signature]
Month/ Day / Year: 8-1-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Trees
Address Phone Fax #
Williamsport PA 570-326-5438
Printed or Typed Name & Title: 563-D-901
Date:
Signature: [signature] 8-1-12

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Coordinators Inc - 563-D-901
Address Phone Fax
515 RT 30 East
Erwin PA 15623 PA
Printed or Typed Name & Title
Date:
Signature: [signature] 8-1-12

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP
If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 262597

12. Waste Facility Discrepancy Indication Space

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Sharon Dunne
Signature: [signature]
Month/ Day / Year: 8/2/12

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

32

MINERVA ENTERPRISES, IN
5000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph. 330-868-3435
Fax 330-868-3408

Customer Name

North American Site Dirp Inc

Ticket # 242597
Date 08/02/2012
Time 7:44:15 AM

Customer #	10001	Gross Weight	91900
Transporter	Weigle Trucking Inc	Tare Weight	27580
Truck Type	Trailer dump	Net Weight(tons)	32.16
Truck License #	383	Volume Received(yards)	30
Location	MA, Cambridge	Waste Type	Mixed C&D
Generator	Pound Hall	Minerva Job #	[illegible]
MERCP/P.O #	[illegible]		
Accepted	Yes	If no, this material was rejected for the following reason:	

Driver

Minerva Enterprises Representative

I certify that all materials meet State County/and EPA specifications

This certifies that the waste specified on this ticket has been properly dispensed of in accordance with all local state and federal regulations

32

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09872

1. FACILITY NAME Pound Hall
Address ~~1653~~ 1563 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
City State 1365 Main St, Waltham, MA 02451 Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB ~~Bulk~~ ~~Product~~ Waste
NON TSCA Per Profile

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: Dennis Quervey
Signature:
Month/ Day / Year: 8-1-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Neigle trucking 274 Reynolds Rd Linden PA 17744
Phone Fax
Printed or Typed Name & Title: John Walker
Date: 8-1-12
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 262595

12. Waste Facility Discrepancy Indication Space

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Sharon Dunne
Signature: SDunne
Month/ Day / Year: 8/2/12

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

33

33

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3408

Customer Name
North American Site Dwlp Inc

Ticket # 262595
Date 08/02/2012
Time 7:34:40 AM

Customer #	10001	Gross Weight:	101020
Transporter:	Weigle Trucking /	Tare Weight:	32860
Truck Type:	Trailer dump	Net Weight(tons):	34.08
Truck License #	12A	Volume Recieved(yards):	70
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator	Pound Hall	Minerva Job #	
ME REP/P.O #:	std		

Pound hall * 1563 mass ave * Cambridge, ma * C&d

Accepted: Yes If No, this material was rejected to the following reasons

Driver: [signature] Minerva Enterprises Representative: [signature]

I certify that all materials meet Stark County/ohio EPA specifications

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

...highway to acceptable international and governmental regulations.

Printed/typed name & title	Signature	Month/ Day / Year
Dennis Quincy	[signature]	[illegible]

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)			Printed or Typed Name & Title	Date:
Address	Phone	Fax	Signature	
10.B Name of Transporter-2 (Verifies Receipt of above described materials)			Printed or Typed Name & Title	Date:
Address	Phone	Fax	Signature	

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials, ADDED or REMOVED during transit? (EXCEPT Correction Material Weight at loading location.)

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 99870

1. FACILITY NAME Pound Hall
Address 1563 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
City State 1365 Main St, Waltham, MA 02451 Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste Non TSCA Pest Trafile

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: Dennis Gueneux Signature: [signature] Month/ Day / Year: 8-1-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Trickers
Address Phone Fax
274 Reynolds RD Linden PA
Printed or Typed Name & Title Date:
Signature [signature] 8-1-12

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility Signature Month/ Day / Year

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

34

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: **262587**
Date: **08/02/2012**
Time: 7:13:56 AM

Customer #:	**10001**	Gross Weight:	128460
Transporter:	Weigle Trucking /	Tare Weight:	35120
Truck Type:	Trailer dump	Net Weight(tons):	**46.67**
Truck License #:	**33**	Volume Recieved(yards):	80
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	~~1003~~ pound hall * 1563 mass ave * Cambridge, ma * C&d
ME REP/P.O.#:	srd		
Accepted:	Yes	If No, this material was rejected for the following reasons.	

Driver: [signature]

Minerva Enterprises Representative: [signature]

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

34

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09876

1. FACILITY NAME Pound Hall
Address 1033 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8250
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste	1	Trailer	55

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: Dennis Curran Signature: Month/ Day / Year: 8-1-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
CTL Transport 724-239-9193
Address 1000 Rt 286 Phone Fax
Saltsburg PA 15681
Printed or Typed Name & Title: [illegible] Date: 8/1/12
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP — If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 262623
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility: Michael Gibb Signature: [illegible] Month/ Day / Year: 8-2-12

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

35

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330 866-3435
Fax: 330-866-3468

Customer Name
North American Site Dvlp Inc

Ticket #: **262623**
Date: **08/02/2012**
Time: 10:21:01 AM

Customer #:	**10001**	Gross Weight:	82800
Transporter:	Wgt/CTI	Tare Weight:	34380
Truck Type:	Trailer dump	Net Weight(tons):	**24.21**
Truck License #:	**338**	Volume Recieved(yards):	55
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hill	Minerva Job #:	cambridge,ma*c&d
ME REP/P.O.#:	kll		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/Ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

35

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09873

1. FACILITY NAME
Address Pound Hall
1355 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
City State 1365 Main St, Waltham, MA 02451 Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: Dennis Greaney
Signature: D. Greaney
Month/ Day / Year: 8-2-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address 7565 RT 30 Irwin PA
Phone 724-314-2100
Fax
Printed or Typed Name & Title: Justin Wright Truck Driver
Date: 8-2-12
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP
If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #

12. Waste Facility Discrepancy Indication Space

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility Signature Month/ Day / Year 8/2/12

36

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-868-3435 Fax: 330-868-3408	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	262693 **08/03/2012** 11:46:20 AM

Customer #:	**10001**	Gross Weight:	83400
Transporter:	CTI	Tare Weight:	32620
Truck Type:	Trailer dump	Net Weight(tons):	**28.39**
Truck License #:	**529**	Volume Recieved(yards):	60
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	cambridge,ma*c&d
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____

I certify that all materials meet Stark County/ohio EPA specifications.

Minerva Enterprises Representative: _____

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

36

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09877

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Fully Profiled [illegible]
6. Containers NO: 1 TYPE: Trailer
7. Total Quantity (Cubic Yards or Tons) 60

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title: Dennis Quercy Manager
Signature: [signature]
Month/ Day / Year: 8-2-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address [illegible] Phone 124-664-2166 Fax
Printed or Typed Name & Title: George Fallon Driver
Date: 8-2-12
Signature: [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title
Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*
SKIP

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 2626-11
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility: [illegible]
Signature: [signature]
Month/ Day / Year: 2/3/12

12. Waste Facility Discrepancy Indication Space

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-868-3435 Fax: 330-868-3408	Customer Name **North American Site Dvlp Inc.**	Ticket # Date: Time:	**282094** **08/03/2012** 11:41:59 AM

Customer #:	**10001**	Gross Weight:	88680
Transporter:	CTI	Tare Weight:	35020
Truck Type:	Trailer dump	Net Weight(tons):	**26.82**
Truck License #:	**333**	Volume Recieved(yards):	60
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09878

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President & Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste
6. Containers NO: 1 TYPE: Trailer
7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title Signature Month/ Day / Year

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility Signature Month/ Day / Year

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

38

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 700 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3488	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	262773 08/06/2012 10:27:56 AM

Customer #:	**10001**	Gross Weight:	166440
Transporter:	Weigle Trucking / L	Tare Weight:	34400
Truck Type:	Trailer dump	Net Weight(tons):	**66.02**
Truck License #:	**2803**	Volume Recieved(yards):	80
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons. _____

Driver: Charles Beck Minerva Enterprises Representative: [signature]

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09879

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
City Cambridge, MA 02138 State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-0600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC — P.O. Box 709 — Phone: 330-866-3435
8955 Minerva Road SE — Waynesburg, Ohio 44688-0709 — Fax:330-866-3488
Onsite Disposal: Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste
6. Containers NO: 1 TYPE: Trailer
7. Total Quantity (Cubic Yards or Tons) 15

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedtyped name & title — Signature — Month/ Day / Year

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address — Phone — Fax
Printed or Typed Name & Title — Date:
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address — Phone — Fax
Printed or Typed Name & Title — Date:
Signature

11.ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP — If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 26270
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedtyped name - WDS Facility — Signature — Month/ Day / Year

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

39

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket # **262765**
Date: **08/06/2012**
Time: 9:39:45 AM

Customer #	**10001**	Gross Weight:	152980
Transporter:	Weigle Trucking	Tare Weight:	34600
Truck Type:	Trailer dump	Net Weight(tons):	**59.19**
Truck License #:	**04**	Volume Recieved(yards):	65
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hill	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09902

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal: Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste	1	Trailer	75

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title Signature Month/ Day / Year

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

DISPOSAL

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printed/typed name - WDS Facility Signature Month/ Day / Year

12. Waste Facility Discrepancy Indication Space

40

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-868-3435 Fax: 330-866-3480	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	**282820** **08/07/2012** 8:44:10 AM

Customer #:	**10001**	Gross Weight:	101020
Transporter:	Weigle/ Kevin Bea	Tare Weight:	30440
Truck Type:	Trailer dump	Net Weight(tons):	**35.29**
Truck License #:	**102**	Volume Recieved(yards):	75
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pount Hall	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: Kevin Bean Minerva Enterprises Representative: K. Krute

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09882

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials	6. Containers NO:	TYPE:	7. Total Quantity (Cubic Yards or Tons)
Containing <50 PPM PCB Bulk Product Waste	1	Trailer	[illegible]

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedtyped name & title: [illegible] Signature: [illegible] Month/ Day / Year: 8-8-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*

DISPOSAL FACILITY

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET #
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedtyped name - WDS Facility Signature Month/ Day / Year

12. Waste Facility Discrepancy Indication Space

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 703
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: **263014**
Date: **08/09/2012**
Time: 12:21:18 PM

Customer #:	**10001**	Gross Weight:	117440
Transporter:	Weigle Trucking	Tare Weight:	30440
Truck Type:	Trailer dump	Net Weight(tons):	**43.5**
Truck License #:	**006**	Volume Recieved(yards):	70
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	cambridge,ma*c&d
ME REP/P.O.#:	std		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

41

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09869

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President & Fellows of Harvard C
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title	Signature	Month/ Day / Year
Dennis Cuevas Manager	[signature]	8-8-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date: 8/8/12
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials *ADDED or REMOVED* during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver *Name*
SKIP

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # [illegible]

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.

Printed/typed name - WDS Facility	Signature	Month/ Day / Year
[illegible]	[illegible]	[illegible]

42

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph. 330-866-3435
Fax: 330-866-3468

Customer Name
North American Site Dvlp Inc.

Ticket #: 263092
Date: 08/10/2012
Time: 12:18:31 PM

Customer #:	**10001**	Gross Weight:	109740
Transporterr:	Weiglo Trucking/ G	Tare Weight:	35160
Truck Type:	Trailer dump	Net Weight(tons):	**37.29**
Truck License #:	**109**	Volume Recieved(yards):	65
Location:	MA, Cambridge	Waste Type:	Mixed C&D
Generator:	Pound Hall	Minerva Job #:	cambridge,ma*c&d
ME REP/P.O.#:	ard		

Accepted: Yes If No, this material was rejected for the following reasons. _____

Driver: _____

I certify that all materials meet Stark County/ohio EPA specifications.

Minerva Enterprises Representative: _____

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

42

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09880

1. FACILITY NAME Pound Hall
Address 21693 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME
Address NASDI, LLC
City State 1365 Main St, Waltham, MA 02451 Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB [illegible] Product Waste Non TSCA per [illegible]
6. Containers NO: 1 TYPE: Trailer
7. Total Quantity (Cubic Yards or Tons) 80

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title: Dennis Cuvenne
Signature: [signature]
Month/ Day / Year: [illegible]

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Weigle Trucking
Address Phone Fax
274 Reynolds RD
Printed or Typed Name & Title Date:
Signature [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 26 [illegible]
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility: [illegible]
Signature: [signature]
Month/ Day / Year: [illegible]

12. Waste Facility Discrepancy Indication Space

43

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd P.O. Box 709
Waynesburg, OH 44688
Ph: 330 866-3435
Fax: 330 866-3491

Customer Name
North American Site Dvlp Inc.

Ticket # **283383**
Date: **08/16/2012**
Time: 11:06:55 AM

Customer #	**10001**	Gross Weight:	110800
Transporter:	Weigle/Green Outll	Tare Weight:	35120
Truck Type:	Trailer dump	Net Weight(tons):	**37.84**
Truck License #	**33**	Volume Recieved(yards):	80
Location:	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #	arrbridge,ma*c&d
ME REP/P.O #:	kor		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: Eric Bacon

Minerva Enterprises Representative:

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09881

1. FACILITY NAME Pound Hall
Address 1653 Massachusetts Ave
Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip

Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip

Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC
8955 Minerva Road SE
P.O. Box 709
Waynesburg, Ohio 44688-0709
Phone: 330-866-3435
Fax:330-866-3488

Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP
Address One Winter St
City: Boston State MA Zip

5. Description of Materials Construction & Demolition Debris Containing <50 PPM PCB Bulk Product Waste

6. Containers NO: 1 TYPE: Trailer

7. Total Quantity (Cubic Yards or Tons) 65

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printed/typed name & title: Donna Guerrier
Signature: [signature]
Month/ Day / Year: 8 [illegible]

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
Printed or Typed Name & Title Date:
Signature

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP
If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
Certification of Receipt of Asbestos Materials except item 12 notes.

12. Waste Facility Discrepancy Indication Space

DISPOSAL FACILITY

TICKET # [illegible]

Certification of Receipt of asbestos materials covered by this manifest except as noted in item 12.
Printed/typed name - WDS Facility
Signature: [signature]
Month/ Day / Year: 8/11/12

44

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3480

Customer Name
North American Site Dvlp Inc.

Ticket #: 283355
Date: 08/16/2012
Time: 9:50:42 AM

Customer #	10001	Gross Weight:	102700
Transporter:	Weigle Trucking	Tare Weight:	31820
Truck Type:	Trailer dump	Net Weight(tons):	35.44
Truck License #	7	Volume Recieved(yards):	65
Location:	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#	kar		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

44

PLEASE PRESS FIRMLY - USE INK

HARVARD UNIVERSITY

ASBESTOS WASTE SHIPMENT RECORD

RECORD # 10757
263443

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 Mass Ave (No. Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: President & Fellows (Name) Tel. No

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 Everett St (No. Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASOI (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 Main St (No. Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 y3	Dump Trailer	(1)

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) (Signature) 8/16/12 (Date (month/day/year))

NON TSCA Per Profile RQ, ASBESTOS, 9, NA2212, PG III / PCB < 50 ppm

TRANSPORTER(S)

TRANSPORTER 1: (Name) (Tel. No.)

ADDRESS: Weigle Tx. 274 Reynolds Rd Linden PA (No. Street) (City) (State) (Zip)

VEHICLE TYPE: Tractor Trailer (Make/Description) LICENSE PLATE: AF78855 PA (State) (Mo..)

SIGNATURE: DATE OF TRANSPORT:

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No. Street) (City) (State) (Zip)

OPERATOR: (No. Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No. Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo..)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent. LLC (Name) 330-866-3435 (Tel. No.)

ADDRESS: PO Box 709, 8955 Minerva Rd Wayncsburgh OH 44688 (No. Street) (City) (State) (Zip)

OPERATOR: (No. Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) S Dunne (Signature) 8/17/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

MINERVA ENTERPRISES, IN
5000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph. 330-868-3435
Fax: 330-868-3489

Customer Name
North American Site Dvlp Inc.

Ticket #: 283443
Date: 08/17/2012
Time: 12:03:13 PM

Customer #	10001	Gross Weight:	117720
Transporter:	Weigle Trucking/R	Tare Weight:	28140
Truck Type:	Trailer dump	Net Weight(tons):	44.79
Truck License #:	126	Volume Recieved(yards):	75
Location:	MA, Cambridge	Waste Type	~~Mixed C&D~~ Non Friable
Generator:	Pound Hill	Minerva Job #	cambridge,ma*c&d
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons

Driver:

I certify that all materials meet Stark County/Ohio EPA specifications.

Minerva Enterprises Representative:

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

1

PLEASE PRESS FIRMLY — USE INK

HARVARD UNIVERSITY

ASBESTOS WASTE SHIPMENT RECORD

RECORD # 10758
263446

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: President & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASDE (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 43	DUMP TRAILER	(1)

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J King (FHI) (Print Name) [signature] (Signature) 8/16/12 (Date (month/day/year))

Non TSCA per profile RQ, ASBESTOS, 9, NA2212, PG III / PCB < 50 ppm

TRANSPORTER(S)

TRANSPORTER 1: Weigh Trucking (Name) (Tel. No.)

ADDRESS: 274 (No.) Reynolds Rd (Street) Lindan Pa (City) 18744 (State) (Zip)

VEHICLE TYPE: Peterbilt (Make/Description) LICENSE PLATE: AF 88458 (State) PA (Mo..)

SIGNATURE: [signature] DATE OF TRANSPORT: 8.16.12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo..)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: MINERVA ENT. LLC (Name) 330-866-3435 (Tel. No.)

ADDRESS: PO Box 709, 8955 (No.) Minerva RD (Street) Waynesburgh (City) OH (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) [signature] (Signature) 8/17/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

2

COPY 1

MINERVA ENTERPRISES, IN
9000 Minerva Rd P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3480

Customer Name
North American Site Dvlp Inc.

Ticket #: 283448
Date: 08/17/2012
Time: 12:25:50 PM

Customer #	10001	Gross Weight:	100560
Transporter:	Weigle Trucking	Tare Weight:	30440
Truck Type:	Trailer dump	Net Weight(tons):	35.06
Truck License #:	008	Volume Recieved(yards):	25
Location:	MA, Cambridge	Waste Type:	~~Mixed C&D~~ Non Friable
Generator:	Pound Hall	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#:	snd		

Accepted: Yes If No, this material was rejected for the following reasons:

Driver: _____ Minerva Enterprises Representative _____

I certify that all materials meet Stark County/Ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

2

PLEASE PRESS FIRMLY - USE INK

263413

RECORD # 10760

HARVARD UNIVERSITY

ASBESTOS WASTE SHIPMENT RECORD

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: Presidents & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett St (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NABOE (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25	(1) Dumptrailer	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew King (EHI) (Print Name) (Signature) 8/16/12 (Date (month/day/year))

NTSCA Per Profile - RQ, ASBESTOS, 9, NA2212, PG III / PCB 250 ppm

TRANSPORTER(S)

TRANSPORTER 1: Weigle Trucking (Name) TK#104 570-326-5438 (Tel. No.)

ADDRESS: 274 (No.) Reynolds Rd (Street) Linden (City) Pa (State) (Zip)

VEHICLE TYPE: Dump Trailer (Make/Description) LICENSE PLATE: AE-40725 (State) (Mo..)

SIGNATURE: [signature] DATE OF TRANSPORT: 8/16/12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo..)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent. LLC (Name) 330 866 3435 (Tel. No.)

ADDRESS: PO Box 709, 8955 (No.) Minerva Rd (Street) Wampensburg (City) OH (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) [signature] (Signature) 8/17/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

3

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: **283413**
Date: **08/17/2012**
Time: 8:13:59 AM

Customer #:	**10001**	Gross Weight:	116480
Transporter:	Weigle Trucking /	Tare Weight:	31160
Truck Type:	Trailer dump	Net Weight(tons):	**42.66**
Truck License #:	**104**	Volume Recieved(yards):	~~X~~ 25 - SKD
Location:	MA, Cambridge	Waste Type:	~~Mixed C&D~~ Non Friable
Generator:	Pound Hall	Minerva Job #:	ambridge,ma*c&d
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons _____

Driver: Bob Weigle

Minerva Enterprises Representative: S Dunne

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

3

PLEASE PRESS FIRMLY - USE INK

HARVARD UNIVERSITY
ASBESTOS WASTE SHIPMENT RECORD

RECORD # 10761
763497

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: President & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASOI (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 yards	Dump Trailer	(1)

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) Matthew J. King (Signature) 8/17/12 (Date (month/day/year))

NON TSCA Dr Profile RQ, ASBESTOS, 9, NA2212, PG III PCB < 50 PPM

TRANSPORTER(S)

TRANSPORTER 1: Weigle Trucking (Name) (Tel. No.)

ADDRESS: 274 (No.) Reynolds Rd (Street) Linden (City) PA (State) (Zip)

VEHICLE TYPE: Peterbilt 01 (Make/Description) LICENSE PLATE: PA (State) AE 56227 (Mo.)

SIGNATURE: DATE OF TRANSPORT: 8/17/12

TEMPORARY STORAGE LOCATION: Weigle (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: Weigle (Name) (Tel. No.)

ADDRESS: 274 (No.) Reynolds Rd (Street) Linden (City) PA (State) (Zip)

VEHICLE TYPE: Pete 01 (Make/Description) LICENSE PLATE: PA AE 56227 (State) (Mo.)

SIGNATURE: DATE OF TRANSPORT: 8-19-12

DISPOSAL SITE

COMPANY: Minerva Ent. LLC (Name) 330 866 3435 (Tel. No.)

ADDRESS: PO Box 709, 8955 (No.) Minerva Rd. (Street) Waynesburgh (City) OH (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) S Dunne (Signature) 8/20/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

4

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph. 330-866-3435
Fax. 330-866-3400

Customer Name
North American Site Dvlp Inc

Ticket #: **263497**
Date: **08/20/2012**
Time: 8:18:52 AM

Customer #	**10001**	Gross Weight:	126940
Transporter:	Weigle Trucking	Tare Weight	32580
Truck Type	25 cuyd Roll-off	Net Weight(tons):	**47.18**
Truck License #	1	Volume Recieved(yards)	25
Location:	MA, Cambridge	Waste Type	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #	bridge,ma*nf-acm
ME REP/P.O #	std		

Accepted Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative _____

I certify that all materials meet Stark County/ohio EPA specifications

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

4

PLEASE PRESS FIRMLY - USE INK

HARVARD UNIVERSITY
ASBESTOS WASTE SHIPMENT RECORD

RECORD # 10765
263524

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: President & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASDF (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main st (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
? 25 yards	Dump Trailer	(1)

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/17/12 (Date (month/day/year))

Non TSCA Per Profile see RQ, ASBESTOS, 9, NA2212, PG III PCB <50 ppm

TRANSPORTER(S)

TRANSPORTER 1: Weigle Trucking Inc (Name) 570-326-5455 (Tel. No.)

ADDRESS: 274 (No.) Reynolds Road (Street) Linden (City) PA (State) 17744 (Zip)

VEHICLE TYPE: Pete (Make/Description) LICENSE PLATE: AF45214 (State) PA (Mo.)

SIGNATURE: [signature] DATE OF TRANSPORT: 8-17-12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo.)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC (Name) 330-866-3435 (Tel. No.)

ADDRESS: PO Box 709, 8955 Minerva Rd (No. Street) Waynesburgh (City) OH (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) [signature] (Signature) 8/20/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

5

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph. 330-866 3435
Fax: 330-868-3469

Customer Name
North American Site Dvlp Inc.

Ticket # **283524**
Date: **08/20/2012**
Time: 11:14:57 AM

Customer #	**10001**	Gross Weight	131060
Transportion:	Weigle Trucking / T	Tare Weight	29300
Truck Type:	Trailer dump	Net Weight(tons)	**50.58**
Truck License #	20	Volume Recieved(yards):	25
Location	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #	bridge,ma*nf-acm
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons _____

Driver: _____

I certify that all materials meet Stark County/ohio EPA specifications.

Minerva Enterprises Representative: _____

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

5

PLEASE PRESS FIRMLY - USE INK

263496

HARVARD UNIVERSITY

RECORD # 10763

ASBESTOS WASTE SHIPMENT RECORD

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: Presidents & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) MA (State) 02138 (Zip)

REMOVAL CONTRACTOR: Nasdi (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 yards	Dump Trailer	(1)

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/17/12 (Date (month/day/year))

Non TSCA Per Profile RQ, ASBESTOS, 9, NA2212, PG III PCB < 50 PPM

TRANSPORTER(S)

TRANSPORTER 1: Weigle Trucking (Name) (Tel. No.)

ADDRESS: 274 (No.) Reynolds Road (Street) Linden (City) Pa (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: AF 52202 (State) (Mo.)

SIGNATURE: [signature] DATE OF TRANSPORT: 8-17-12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo.)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent. LLC (Name) 330 866 3435 (Tel. No.)

ADDRESS: PO Box 709, 8955 Minerva Rd. (No. Street) Waynesburgh (City) OH (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Kim Roberts (Print Name) [signature] (Signature) 8/20/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

6

MINERVA ENTERPRISES, IN
8000 Minerva Rd P.O. Box 709
Waynesburg, OH 44688
Ph. 330.868.3435
Fax 330.868.3488

Customer Name
North American Site Dvlp Inc

Ticket # 263498
Date 08/20/2012
Time: 8:19:33 AM

Customer #	10001	Gross Weight	129140
Transporter:	Weigle Trucking	Tare Weight	34600
Truck Type:	Trailer dump	Net Weight(tons)	47.27
Truck License #	4	Volume Recieved(yards)	26
Location:	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Point Hall	Minerva Job #	ambridge,ma*c&d
ME REP/P.O #	for		
Accepted:	Yes	If No, this material was rejected for the following reasons:	

Driver: _____ Minerva Enterprises Representative _____

I certify that all materials meet Stark County/ohio EPA specifications

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

6

PLEASE PRESS FIRMLY - USE INK

263500

HARVARD UNIVERSITY

RECORD # 10759

ASBESTOS WASTE SHIPMENT RECORD

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: President & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett (Street) Ave Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASOI (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25yd³	(1) Dump trailer	(1)

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/16/12 (Date (month/day/year))

Non TSCA per profile RQ, ASBESTOS, 9, NA2212, PG III / PCB < 50 PPM

TRANSPORTER(S)

TRANSPORTER 1: F&A Trucking Inc (Name) 484-547-8967 (Tel. No.)

ADDRESS: 92 (No.) Creek Rd (Street) Bangor (City) PA. (State) 18013 (Zip)

VEHICLE TYPE: Peterbilt (Make/Description) LICENSE PLATE: PA (State) AF 79257. (Mo..)

SIGNATURE: [signature] DATE OF TRANSPORT: 8/16/12.

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo..)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent. LLC (Name) (330) 866-3435 (Tel. No.)

ADDRESS: PO Box 709, 8955 Minerva Rd. (No. Street) Waynesburgh (City) OH (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Kim Roberts (Print Name) [signature] (Signature) 8/20/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

7

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: **203500**
Date: **08/20/2012**
Time: 8:26:13 AM

Customer #:	**10001**	Gross Weight:	98300
Transporter:	F & A Trucking	Tare Weight:	031280
Truck Type:	Trailer dump	Net Weight(tons):	~~49.15~~ 33.51
		Volume Recieved(yards):	25
Truck License #:	**1**	Waste Type:	Non Friable Asbestos
Location:	MA, Cambridge	Minerva Job #:	ambridge,ma"c&d
Generator:	Pound Hall		
MF REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons:

Driver:

I certify that all materials meet Stark County/ohio EPA specifications.

Minerva Enterprises Representative:

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

7

PLEASE PRESS FIRMLY - USE INK

863523

HARVARD UNIVERSITY

RECORD # 10766

ASBESTOS WASTE SHIPMENT RECORD

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: Presidents & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASDT (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 yards	Dump Trailer	(1)

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (FHI) (Print Name) [signature] (Signature) 8/17/12 (Date (month/day/year))

Non TSCA per profile RQ, ASBESTOS, 9, NA2212, PG III, PCB < 50

TRANSPORTER(S)

TRANSPORTER 1: Weigle Tkg. (Name) 570-326-5438 (Tel. No.)

ADDRESS: 274 (No.) Reynolds Rd. (Street) Linden (City) PA (State) (Zip)

VEHICLE TYPE: Peterbilt 40' Dump (Make/Description) LICENSE PLATE: PA (State) AF 99377 (Mo..)

SIGNATURE: [signature] DATE OF TRANSPORT: 8/17/12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo..)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC (Name) (Tel. No.)

ADDRESS: P.O. Box 709 (No.) 8955 Minerva Rd (Street) Waynesburgh (City) Ohio (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Kristina Lewis (Print Name) [signature] (Signature) 8-20-12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph 330-866-3435
Fax 330-866-3408

Customer Name
North American Site Dvlp Inc.

Ticket # **263523**
Date: **08/20/2012**
Time: 11:14:04 AM

Customer #	**10001**	Gross Weight	132840
Transporter	Wgt/TMH	Tare Weight	32480
Truck Type:	Trailer dump	Net Weight(tons):	**50.18**
Truck License #:	**21**	Volume Recieved(yards):	25
Location	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #:	ıbridge,ma*nf-acm
ME REP/P.O #	kll		

Accepted: Yes If No, this material was rejected for the following reasons

Driver: [signature]

Minerva Enterprises Representative: [signature]

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

8

PLEASE PRESS FIRMLY - USE INK

HARVARD UNIVERSITY
ASBESTOS WASTE SHIPMENT RECORD

RECORD # 10764
263525

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: Presidents & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASDI (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 yards	Dump Trailer	(1)

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/17/12 (Date (month/day/year))

NON-RCRA Profile-SED RQ, ASBESTOS, 9, NA2212, PG III PCB < 50 PPM

TRANSPORTER(S)

TRANSPORTER 1: Weigle Trucking (Name) LG 2803 (Tel. No.) 8143554273

ADDRESS: 304 (No.) Gates Mountain Road (Street) Houtzdale (City) PA (State) 16841 (Zip)

VEHICLE TYPE: Peter Car (Make/Description) LICENSE PLATE: AF 47917 (State) PA (Mo..)

SIGNATURE: Charles Beck DATE OF TRANSPORT:

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo..)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC (Name) 330 866 3435 (Tel. No.)

ADDRESS: PO Box 709, 8955 (No.) Minerva Rd. (Street) Waynesburgh (City) OH (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) [signature] (Signature) 8/20/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

9

MINERVA ENTERPRISES, IN 9000 Minerva Rd P.O. Box 709 Waynesburg, OH 44688 Ph: 330 866-3435 Fax: 330 868-3480	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	283525 08/20/2012 11:27:50 AM

Customer #:	**10001**	Gross Weight	143780
Transporter:	Weigle Trucking / L	Tare Weight:	34400
Truck Type:	Trailer dump	Net Weight(tons)	**54.69**
		Volume Received(yards)	25
Truck License #:	**2803**	Waste Type:	Non Friable Asbestos
Location:	MA, Cambridge	Minerva Job #:	ibridge,ma*nf-acm
Generator:	Pound Hall		
ME REP/P.O.#:	ard		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: Charles Beck

Minerva Enterprises Representative: [signature]

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state/and federal regulations.

9

PLEASE PRESS FIRMLY - USE INK

HARVARD UNIVERSITY

RECORD # 10762

ASBESTOS WASTE SHIPMENT RECORD 263515

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 Mass Ave (No. Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: Presidents & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 Everett Ave (No. Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASOI (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 Main St (No. Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 yards	Dump Trailer	(1)

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/17/12 (Date (month/day/year))

NON TSCA Per Profile, RQ, ASBESTOS, 9, NA2212, PG III PCBL 50 PPM

TRANSPORTER(S)

TRANSPORTER 1: Green Outlook (Weigle) (Name) (Tel. No.)

ADDRESS: 9 Angelo Drive (No. Street) Sparta (City) NJ (State) (Zip)

VEHICLE TYPE: [illegible] (Make/Description) LICENSE PLATE: AM 574 U, NY (State) (Mo.)

SIGNATURE: [signature] DATE OF TRANSPORT: 8/18/12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No. Street) (City) (State) (Zip)

OPERATOR: (No. Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No. Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo.)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent. LLC (Name) 330 866 3435 (Tel. No.)

ADDRESS: PO Box 709, 8955 Minerva Rd (No. Street) Wayneburgh (City) OH (State) 44688 (Zip)

OPERATOR: (No. Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) [signature] (Signature) 8/20/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

10

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3488

Customer Name
North American Site Dvlp Inc.

Ticket #: 203515
Date: 08/20/2012
Time: 10:11:04 AM

Customer #	10001		
Transporter:	Weigle Trucking/ G	Gross Weight	113160
Truck Type:	Trailer dump	Tare Weight	35160
Truck License #:	109	Net Weight(tons):	39
Location:	MA, Cambridge	Volume Recieved(yards)	25
Generator:	Pound Hall	Waste Type:	Non Friable Asbestos
ME REP/P.O.#:	srd	Minerva Job #:	bridge,ma*nf-acm

Accepted: Yes If No, this material was rejected for the following reasons:

Driver:

I certify that all materials meet Stark County/ohio EPA specifications.

Minerva Enterprises Representative:

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

10

PLEASE PRESS FIRMLY - USE INK

HARVARD UNIVERSITY

ASBESTOS WASTE SHIPMENT RECORD

RECORD # 10768

263600

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: Presidents & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASDE LLC (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 yards	Dump Trailer	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/21/12 (Date (month/day/year))

Non TSCA per Profile RQ, ASBESTOS, 9, NA2212, PG III PCB <50 PCB<50mg/L

TRANSPORTER(S)

TRANSPORTER 1: Weigle TK. (Name) (Tel. No.)

ADDRESS: Linden (No.) PA (Street) Revolds Rd. (City) PA (State) (Zip)

VEHICLE TYPE: Dump (Make/Description) LICENSE PLATE: PA (State) AF 78855 (Mo.)

SIGNATURE: [signature] DATE OF TRANSPORT: 8/21/12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo.)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC (Name) 330-866-3435 (Tel. No.)

ADDRESS: 8455 (No.) Minerva Rd SE (Street) Waynesburg (City) Ohio (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) [signature] (Signature) 8/22/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

11

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3468	Customer Name **North American Site Dvlp Inc.**	Ticket # Date Time	203660 08/22/2012 10:25:05 AM

Customer #:	**10001**	Gross Weight:	110880
Transporter:	Weigle Trucking /	Tare Weight:	28140
Truck Type:	Trailer dump	Net Weight(tons):	**41.37**
Truck License #:	128	Volume Recieved(yards):	25
Location:	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #:	bridge,ma*nf-acm
ME REP/P.O #:	snd		

Accepted: Yes If No, this material was rejected for the following reasons _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

11

PLEASE PRESS FIRMLY - USE INK

HARVARD UNIVERSITY

RECORD # 10769

ASBESTOS WASTE SHIPMENT RECORD

2636d4

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) MA (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: President + Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) MA (State) 02451 (Zip)

REMOVAL CONTRACTOR: NASOF LLC (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) MAIN ST (Street) WALTHAM (City) MASS (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 yards	dump trailer	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/21/12 (Date (month/day/year))

NONTSCA PCB Profile RQ, ASBESTOS, 9, NA2212, PG III PCB < 50 ppm

TRANSPORTER(S)

TRANSPORTER 1: Weigle Trucking (Name) 570 326 5438 (Tel. No.)

ADDRESS: Reynolds Rd (No. Street) Linden, Pa (City) Pa (State) (Zip)

VEHICLE TYPE: Kenworth (Make/Description) LICENSE PLATE: AF 78856 (State) (Mo.)

SIGNATURE: [signature] DATE OF TRANSPORT: 8-21-12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No. Street) (City) (State) (Zip)

OPERATOR: (No. Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No. Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo.)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC (Name) 330-868-3435 (Tel. No.)

ADDRESS: 8955 (No.) Minerva Rd SE (Street) Waynesburg, (City) OHIO (State) 44688 (Zip)

OPERATOR: (No. Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) [signature] (Signature) 8/22/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

12

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph. 330-866-3435
Fax: 330-866-3468

Customer Name
North American Site Dvlp Inc.

Ticket #: **283884**
Date: **08/22/2012**
Time: 10:55:56 AM

Customer #:	**10001**	Gross Weight:	123300
Transporter:	Weigle Trucking /	Tare Weight:	29880
Truck Type:	Trailer dump	Net Weight(tons):	**46.71**
Truck License #:	**108**	Volume Recieved(yards)	25
Location:	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #:	bridge,rma*nf-acm
ME REP/P.O.#	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

12

PLEASE PRESS FIRMLY - USE INK 2605083

HARVARD UNIVERSITY

RECORD # 10770

ASBESTOS WASTE SHIPMENT RECORD

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: President & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASOE LLC (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
85 yards	Dump Trailer	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/21/12 (Date (month/day/year))

Non TSCA per profile RQ, ASBESTOS, 9, NA2212, PG III PCB<50 PPM

TRANSPORTER(S)

TRANSPORTER 1: Weigle Trucking LG 2803 (Name) (Tel. No.)

ADDRESS: 304 (No.) Gates Martin Road (Street) Harwood (City) PA (State) 16841 (Zip)

VEHICLE TYPE: Peterbilt (Make/Description) LICENSE PLATE: AF 4777 (State) PA (Mo.) 8-21-12

SIGNATURE: [signature] DATE OF TRANSPORT: 8-21-2012

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo.)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC (Name) 330-866-3435 (Tel. No.)

ADDRESS: 8955 (No.) Minerva Rd SE (Street) Waynesburg (City) Ohio (State) 46688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Kim Roberts (Print Name) [signature] (Signature) 8/22/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

13

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3468	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	283883 08/22/2012 2:46:12 PM

Customer #	10001	Gross Weight:	156120
Transporter:	Waigle/ LG	Tare Weight:	34400
Truck Type:	Trailer dump	Net Weight(tons):	60.86
Truck License #:	2803	Volume Recieved(yards):	85
Location:	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pount Hall	Minerva Job #:	~~cambridge,ma c&d~~
ME REP/P.O.#	kar		

Accepted: Yes If No, this material was rejected for the following reasons _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

13

PLEASE PRESS FIRMLY - USE INK 263684

HARVARD UNIVERSITY

RECORD # 10772

ASBESTOS WASTE SHIPMENT RECORD

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) MA (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: President + Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett (Street) Ave (City) Cambridge (State) MA (Zip) 02138

REMOVAL CONTRACTOR: N ASDI LLC (Name) 781 250 6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St. (Street) Waltham (City) MA (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 Yards	dump trailer	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/12/21 (Date (month/day/year))

Non TSCA per profile. ~~Not pcbt~~

RQ, ASBESTOS, 9, NA2212, PG III PCB<50

TRANSPORTER(S)

TRANSPORTER 1: Weigle Trucking (Name) (Tel. No.)

ADDRESS: 274 (No.) Reynolds Road (Street) Linden (City) PA (State) 17744 (Zip)

VEHICLE TYPE: Pete (Make/Description) LICENSE PLATE: AF 45214 (State) (Mo.)

SIGNATURE: [signature] DATE OF TRANSPORT: 8-21-12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo.)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC (Name) 330-866-3435 (Tel. No.)

ADDRESS: 8955 (No.) Minerva Rd (Street) SE (City) Waynesburg (State) OH (Zip) 44688

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Kristina Lewis (Print Name) [signature] (Signature) 8-22-12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

14

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-868-3435 Fax: 330-868-3468	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date: Time:	263684 08/22/2012 2:49:48 PM

Customer #:	10001	Gross Weight:	130940
Transportation:	Wgt/TMH	Tare Weight:	29900
Truck Type:	Trailer dump	Net Weight(tons):	50.52
Truck License #:	20	Volume Recieved(yards):	~~22~~ 25 KL
Location:	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #:	cbridge,rra*nf-acm
ME REP/P.O.#:	kll		

Accepted: Yes If No, this material was rejected for the following reasons _____

Driver: _____ Minerva Enterprises Representative _____

I certify that all materials meet Stark County/Ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

14

PLEASE PRESS FIRMLY - USE INK

HARVARD UNIVERSITY

ASBESTOS WASTE SHIPMENT RECORD

RECORD # 10771

263685

GENERATOR

BUILDING NAME: Found Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) Mass Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: Presidents & Fellow (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett Ave (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: Nasdi LLC (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 Yards	Dump Trailer	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) 8/21/12 (Date (month/day/year))

NON TSCA Dev Profile RQ, ASBESTOS, 9, NA2212, PG III PCB <50 ppm

TRANSPORTER(S)

TRANSPORTER 1: Weigle Tkg. (TMH) (Name) 570-326-5438 (Tel. No.)

ADDRESS: 274 (No.) Reynolds Road (Street) Linden (City) PA (State) (Zip)

VEHICLE TYPE: '00 Peterbilt 40' Dump (Make/Description) LICENSE PLATE: PA (State) AF 99377 (Mo..)

SIGNATURE: [signature] DATE OF TRANSPORT: 8/21/12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo..)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC (Name) 330-866-3435 (Tel. No.)

ADDRESS: 8955 (No.) Minerva Rd SE (Street) Waynesburg (City) Ohio (State) 44688 (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne (Print Name) [signature] (Signature) 8/22/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within [illegible] days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

15

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3135 Fax: 330-866-3468	Customer Name **North American Site Dvlp Inc.**	Ticket #	263885
		Date	08/22/2012
		Time	2:43:23 PM

Customer #	10001	Gross Weight:	130080
Transporter:	Weigle Trucking / T	Tare Weight:	32430
Truck Type:	Trailer dump	Net Weight(tons):	48.8
Truck License #	21	Volume Recieved(yards):	25
Location:	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #:	bridge,ma"nf-acm
NE REP/P.O.#	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

15

PLEASE PRESS FIRMLY - USE INK

HARVARD UNIVERSITY

RECORD # 10773

ASBESTOS WASTE SHIPMENT RECORD

263732

GENERATOR

BUILDING NAME: Poun Hall | JOB # / NAME:

BUILDING ADDRESS: 1563 Mass Ave Cambridge Mass 02138
No. Street City State Zip

HARVARD UNIV. PROJECT MGR/CONTACT: President & Fellows 617-495-8259
Name Tel. No

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 Everett Ave Cambridge Mass 02138
No. Street City State Zip

REMOVAL CONTRACTOR: Nasdf LLC
Name Tel. No

REMOVAL CONTRACTOR ADDRESS: 1365 Main St Waltham Mass 02451
No. Street City State Zip

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25 yards	Dump Trailer	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EH1) [signature] 8/12/21
Print Name Signature Date (month/day/year)

NON TSCA Per profile RQ, ASBESTOS, 9, NA2212, PG III PCB<50 PPM

TRANSPORTER(S)

TRANSPORTER 1: Page Trans.
Name Tel. No.

ADDRESS: 2758 Tromley Rd Weedsport, N.Y.
No. Street City State Zip

VEHICLE TYPE: 2006 Peterbilt LICENSE PLATE: MK 5009
Make/Description State Mo..

SIGNATURE: [signature] DATE OF TRANSPORT: 8-20-12

TEMPORARY STORAGE LOCATION:
Name

ADDRESS:
No. Street City State Zip

OPERATOR:
No. Street City State Zip

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2:
Name Tel. No.

ADDRESS:
No. Street City State Zip

VEHICLE TYPE: LICENSE PLATE:
Make/Description State Mo..

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC 330-866-3435
Name Tel. No.

ADDRESS: 8955 Minerva Rd SE Waynesburg Ohio 44688
No. Street City State Zip

OPERATOR:
No. Street City State Zip

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Sharon Dunne [signature] 8/23/12
Print Name Signature Date of Receipt (month/day/year)

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

16

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-868-3435 Fax: 330-868-3480	Customer Name **North American Site Dvlp Inc**	Ticket #	283732
		Date	08/23/2012
		Time	9:57:45 AM

Customer #	10001	Gross Weight:	80360
Transportar:	Page Transportatio	Tare Weight:	~~0~~ 33460
Truck Type:	Trailer dump	Net Weight(tons):	~~40.18~~ 23.45 SKD
Truck License #:	4818	Volume Recieved(yards):	25
Location:	MA, Cambridge	Waste Type	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #	bridge,ma*nf-acm
ME REP/P.O.#	srd		

Accepted: Yes If No, this material was rejected for the following reasons _____

Driver _____ Minerva Enterprises Representative _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations

16

WASTE SHIPMENT RECORD

DOCUMENT NUMBER B 09883

1. FACILITY NAME Pound Hall
Address ~~1653~~ Massachusetts Ave
1563 Cambridge, MA 02138
City State Zip

OWNER's NAME President + Fellows of Harvard College
Address 18 Everett Ave
City Cambridge, MA 02138 State Zip
Owner's Phone: 617-495-8259
Owner's Fax: 617-495-0593

GENERATOR

2. CONTRACTOR or OPERATOR's NAME NASDI, LLC
Address 1365 Main St, Waltham, MA 02451
City State Zip
Operator's Phone: 781-250-6600
OPERATOR's Fax: 781-250-6710

3. Waste disposal Site (WDS): Name, Mailing Address, and physical location
Minerva Enterprises, LLC P.O. Box 709 Phone: 330-866-3435
8955 Minerva Road SE Waynesburg, Ohio 44688-0709 Fax:330-866-3488
Onsite Disposal Yes or List:

4. Responsible Agency (Local, District, State, or EPA Office where notification was sent)
Agency: MA DEP Address One Winter St
City: Boston State MA Zip

5. Description of Materials ~~Construction & Demolition Debris~~ Containing <50 PPM PCB ~~Bulk~~ ~~Product~~ Waste Non TSCA per profile
6. Containers NO: 1 TYPE: Trailer
7. Total Quantity (Cubic Yards or Tons)

8. Special Handling Instructions & Additional Information:

9. Generator -Authorized Agent Certification: I hereby declare that the contents of this consignment are fully and accurately described by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transportation by highway to acceptable international and governmental regulations.

Printedityped name & title: Dennis Quereux Manager
Signature: [signature]
Month/ Day / Year: 8-28-12

TRANSPORTER

10.A Name of Transporter-1 (Verifies Receipt of above described materials)
Address Phone Fax
Wigle/ J. C Brink Tr
LINDEN, PA
Printed or Typed Name & Title: JEFF BRINK Date: 8-28-12
Signature: [signature]

10.B Name of Transporter-2 (Verifies Receipt of above described materials)
Address Phone Fax
724 286-3156
7065 RT 210 HWY
Printed or Typed Name & Title: Pres. Date: 8/28/12
Signature: [signature]

11. ALL TRANSPORTERS: ANY REJECTED OR NON-Listed materials ADDED or REMOVED during transit? (EXCEPT Correcting Material Weight at loading location.)
If NO SKIP
If Yes (LIST & Identify Transporter -10.A : Trans-1 or 10.B: Trans-2) Destination Facility for Rejected Materials: Driver Name

13. Waste Disposal Site Owner or Auth. Agent:
DISPOSAL FACILITY
Certification of Receipt of Asbestos Materials except item 12 notes.
TICKET # 264033
Certification of Receipt of asbestos materials covered by this manifest except as noted in Item 12.
Printedityped name - WDS Facility: Kim Roberts
Signature: [signature]
Month/ Day / Year: 8/29/12

12. Waste Facility Discrepancy Indication Space

45

WHITE SIGNATURE Page MUST STAY ATTACHED! Until Delivery to MINERVA Facility (White,Yellow,Pink Gold)
White: Generator - Yellow: WDS - Pink: Transporter 1 - Gold: Transporter 2 - Blue: Contractor - [Green: Gen. REMAINS at Shipment]

MINERVA ENTERPRISES, IN
9000 Minerva Rd. P.O. Box 709
Waynesburg, OH 44688
Ph: 330-866-3435
Fax: 330-866-3468

Customer Name

North American Site Dvlp Inc.

Ticket #: 284033
Date: 08/29/2012
Time: 12:42:51 PM

Customer #:	10001	Gross Weight	74020
Transporter:	Weigle/ JC Brink	Tare Weight:	34440
Truck Type:	Trailer dump	Net Weight(tons):	19.79
Truck License #	B1	Volume Recieved(yards):	40
Location:	MA, Cambridge	Waste Type:	Non Friable Asbestos
Generator:	Pound Hall	Minerva Job #	ambridge,ma ~~[illegible]~~ nfacm pcbbulk
ME REP/P.O.#:	ker		

Accepted: Yes If No, this material was rejected for the following reasons _____

Driver: [signature]

I certify that all materials meet Stark County/ohio EPA specifications.

Minerva Enterprises Representative [signature]

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

45

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330-866-3435 Fax: 330-866-3488	Customer Name **North American Site Dvlp Inc.**	Ticket #: Date Time:	284035 08/29/2012 12:56:12 PM

Customer #:	**10001**	Gross Weight:	79660
Transporter:	Weigle Trucking /	Tare Weight:	~~34400~~
Truck Type:	Trailer dump	Net Weight(tons):	~~39.63~~ 22.63
Truck License #:	**2497**	Volume Recieved(yards):	25
Location:	MA, Cambridge	Waste Type:	~~mixed C&D~~ Non Friable
Generator:	Pound Hall	Minerva Job #:	ambridge,ma C&D
ME REP/P.O.#:	srd		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: _____ Minerva Enterprises Representative: _____

I certify that all materials meet Stark County/ohio EPA specifications.

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

46

PLEASE PRESS FIRMLY - USE INK

264098

HARVARD UNIVERSITY

RECORD # 10756

ASBESTOS WASTE SHIPMENT RECORD

GENERATOR

BUILDING NAME: Pound Hall | JOB # / NAME: Pound Hall Harvard

BUILDING ADDRESS: 1563 Mass Ave (No. Street) Cambridge (City) Mass (State) 0438 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: President & Fellows (Name) 617-495-8259 (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) Everett St (Street) Cambridge (City) Mass (State) 02138 (Zip)

REMOVAL CONTRACTOR: Nasoi LLC (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) Main St (Street) Waltham (City) Mass (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
25	Trailer	1
Friable		

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J. King (EHI) (Print Name) [signature] (Signature) Date (month/day/year)

Non TSCA per profile RQ, ASBESTOS, 9, NA2212, PG III <50 PPM PCBs

TRANSPORTER(S)

TRANSPORTER 1: Weigle Trucking LG #2803 (Name) 814 355 4283 (Tel. No.)

ADDRESS: 304 (No.) Gates Mountain Road (Street) Howard (City) PA (State) 16841 (Zip)

VEHICLE TYPE: Peterbilt (Make/Description) LICENSE PLATE: PA (State) AF 47717 (Mo..)

SIGNATURE: Charles Beck DATE OF TRANSPORT: 8, 29-12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No. Street City State Zip)

OPERATOR: (No. Street City State Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No. Street City State Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State Mo..)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Minerva Ent LLC Ent (Name) 330-866-3435 (Tel. No.)

ADDRESS: P.O. Box 709 8955 Minerva RD (No. Street) Waynesburg (City) Ohio (State) 44688 (Zip)

OPERATOR: (No. Street City State Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Kristina Lofis (Print Name) [signature] (Signature) 8-30-12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

17

MINERVA ENTERPRISES, IN 9000 Minerva Rd. P.O. Box 709 Waynesburg, OH 44688 Ph: 330 868-3435 Fax: 330 868-3468	Customer Name **North American Site Dvlp Inc.**	Ticket # Date: Time:	**264098** **08/30/2012** 12:39:12 PM

Customer #	**10001**	Gross Weight	92480
Transporter:	Wgt/LG	Tare Weight	34400
Truck Type:	Trailer dump	Net Weight(tons):	**29.04**
Truck License #	**2803**	Volume Recieved(yards):	80
Location:	MA, Cambridge	Waste Type:	Friable Asbestos
Generator	Pound Hall	Minerva Job #	mbridge,ma*f-acm
ME REP/P.O.#	kll		

Accepted: Yes If No, this material was rejected for the following reasons: _____

Driver: Charles Beck Minerva Enterprises Representative: [signature]

I certify that all materials meet Stark County/ohio EPA specifications

This certifies that the waste specified on this ticket has been properly disposed of in accordance with all local, state and federal regulations.

17

APPENDIX F

PCB Waste Shipment Summary
Pound Hall, Cambridge, Massachusetts

TOTAL BUILDING MATERIAL VOLUME DISPOSED OF AT TREE FACILITY

Harvard Record / Waste Manifest #	Volume (kg)	Volume (lb)	Volume (tons)	Containers
10752	10,682	23,500	11.75	1 roll-off
10751	8,891	19,560	9.78	1 roll-off
10753	11,527	25,360	12.68	1 roll-off
10754	14,036	30,880	15.44	1 roll-off
64215	18,018	39,640	19.82	1 roll-off
64216	19,173	42,180	21.09	1 roll-off
Subtotal	*82,327*	*181,120*	*90.6*	*6 roll-offs*

Daily Tonnage Report
Criteria: 07/19/2012 12:00 AM to 03/27/2013 11:59 PM
Business Unit Name: WM of NH - Tree (Turnkey) - S03833 (USA)
Date: Mar 27 2013, 11:39:07 AM - Central Standard Time
Profile: 489699NH

Ticket Date	Time	Operator	Ticket	Customer	Carrier	le	Material	Tons	Status
8/14/2012	12:10:25 PM	eric metzler	822219	NORTH AMERICAN SITE DEVELOPERS 57969	CHARLES GEO	437	Asb Non Fri-Tons	11.75	Completed
8/14/2012	12:19:51 PM	eric metzler	822220	NORTH AMERICAN SITE DEVELOPERS 57969	CHARLES GEO	438	Asb Non Fri-Tons	9.72	Completed
8/14/2012	12:47:50 PM	eric metzler	822237	NORTH AMERICAN SITE DEVELOPERS 57969	CHARLES GEO	435	Asb Non Fri-Tons	12.68	Completed
8/15/2012	1:59:14 PM	eric metzler	822538	NORTH AMERICAN SITE DEVELOPERS 57969	CHARLES GEO	90	Asb Non Fri-Tons	15.44	Completed
Ticket Totals								**49.59**	**4**

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 822219

Customer Name NORTHAMERICAN12 NORTH AMERICA
Ticket Date 08/14/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest na
Destination
Generator NE-PRESIDENTNADFELLOWSHARVARD

Carrier CHARLES GEO CHARLES GEORGE TRUCKING
Vehicle# 437 Volume
Container
Driver
Check#
Billing # 0111242
Gen EPA ID Not Required
PO
Profile 489699NH (NON FRIABLE ASBESTOS DEB
President & Fellows of Harvard College

	Time	Scale	Operator	Inbound		
In	08/14/2012 11:36:46	scale 1 inbou	eric metzler		Gross	61700 lb
Out	08/14/2012 12:10:25	scale 2 outbo	phil boisvert		Tare	38200 lb
					Net	23500 lb
					Tons	11.75

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Asb Non Fri-Tons-A	100	11.75	Tons				MA
2	FUEL-Fuel Surcharg	100		%				MA
3	EVF-P-Standard Env	100		%				MA

Total Fees
Total Ticket

SOLID WASTE TRANSPORTER DECLARATION: I certify under penalty of perjury that the information provided is true and correct to the best of my knowledge and belief. TO THE BEST OF MY KNOWLEDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE.

Driver's Signature 457

405WM-Gonic.

WASTE SHIPMENT RECORD

437

GENERATOR

1. Work site (Generator): Pound Hall
   Name
   Mailing Address 1653 Massachusetts Ave
   City/State/Zip Cambridge, MA 02138

Owner's Name: President & Fellows of Harvard College, 18 Everett Avenue, Cambridge, MA 02138

Owner's telephone no.: 617-495-8259

2. Remover's name and address: NASDI, LLC, 1365 Main St, Waltham, MA 02451

Remover's telephone no.: 781-250-6600

3. Waste Disposal site (WDS): Turnkey Landfill
   Name
   Mailing Address P.O. Box 7065
   City/State/Zip Rochester, NH 03839

WDS telephone no. 800-963-4776

Additional Information:

Physical Site Location: 90 Rochester Neck Rd, Rochester, NH 03839

Profile No. 4 8 9 6 9 9 NH

4. Name and address of responsible agency: MA - DEP, one winter st, Boston, MA

5. Description of materials: Concrete with <50ppm of PCBs & non friable ACM

RQ, ASBESTOS, 9, NA2212, III
RQ = 1 LB (ONE POUND)

6. Containers
   No. 1
   Type Roll Off

7. Total quantity m³ (yd³): 15 yds

8. Special handling instructions and additional information (provided by generator.)
   * EMERGENCY RESPONSE NUMBER: (860) 342-0667

9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. NOTE: Generator must retain a copy of this form.

Printed/typed name & title	Signature	Month	Day	Year
[illegible]	[illegible]	8	14	12

TRANSPORTER

10. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name & title	Signature	Month	Day	Year
Charles Cause Trucking	[illegible]	8	14	12

Address and telephone no.: Rt 102 P.O. Box 857 Londonderry NH

11. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name & title	Signature	Month	Day	Year

Address and telephone no.:

DISPOSAL SITE

12. Discrepancy indication space

Rejected: Yes ☑ No ☐

13. Waste disposal site owner or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.

Printed/typed name & title	Signature	Month	Day	Year
G Metcler	[illegible]	8	14	12

WASTE DISPOSAL SITE

HARVARD UNIVERSITY

ASBESTOS WASTE SHIPMENT RECORD

RECORD # 10 5

GENERATOR

BUILDING NAME: POUND HALL | OB / NAME:

BUILDING ADDRESS: 1 63 MASS AVE CAMBRIDGE MA 5 02138
No Street City State Zip

HARVARD UNIV. PROJECT MGR/CONTACT: PRESIDENT & FELLOW
Name e No

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 EVERETT AVE CAMBRIDGE MASS 02138
No. Street City State Zip

REMOVAL CONTRACTOR: NASDI 781 250 6600
Name Tel. No

REMOVAL CONTRACTOR ADDRESS: 1365 MAIN ST WALTHAM MASS 02451
No. Street City State Zip

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
15 x 1	10 x 4	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: [signature] 8/14/12
Print Name Signature Date (month/day/year)

RQ, ASBESTOS, 9, NA2212, PG III

TRANSPORTER(S)

TRANSPORTER 1: CHARLES GEORGE TRUCKING 603 ~~[illegible]~~-425 2274
Name Tel. No.

ADDRESS: RT 102 P.O. BOX 8 7 LONDONDERRY, N.H.
No. Street City State Zip

VEHICLE TYPE: [illegible] LICENSE PLATE: AP3202
Make/Description State Mo.

SIGNATURE: [signature] DATE OF TRANSPORT: 1 2

TEMPORARY STORAGE LOCATION:
Name

ADDRESS:
No Street City State Zip

OPERATOR:
No Street City State Zip

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2:
Name Tel. No

ADDRESS:
No. Street City State Zip

VEHICLE TYPE: LICENSE PLATE:
Make/Description State Mo.

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: [illegible]
Name Tel. No [illegible]

ADDRESS: [illegible] 7005 [illegible] NH
No. Street City State Zip

OPERATOR:
No. Street City State Zip

DISCREPANCY (IF ANY)

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

[signature] [signature] 8/1/10
Print Name Signature Date of Receipt (month/day/year)

Shipment Record Distribution

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy.

Copy III: To be returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

COPY 2

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 822220

Customer Name NORTHAMERICAN12 NORTH AMERICA
Ticket Date 08/14/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest na
Destination
Generator NE-PRESIDENTNADFELLOWSHARVARD

Carrier CHARLES GEO CHARLES GEORGE TRUCKING
Vehicle# 438 Volume
Container
Driver
Check#
Billing # 0111242
Gen EPA ID Not Required
PO
Profile 489699NH (NON FRIABLE ASBESTOS DEB
President & Fellows of Harvard College

	Time	Scale	Operator	Inbound		
In	08/14/2012 11:39:49	scale 1 inbou	eric metzler		Gross	59220 lb
Out	08/14/2012 12:19:51	scale 2 outbo	phil boisvert		Tare	39780 lb
					Net	19440 lb
					Tons	9.72

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Asb Non Fri-Tons-A	100	9.72	Tons				MA
2	FUEL-Fuel Surcharg	100		%				MA
3	EVF-P-Standard Env	100		%				MA

Total Fees
Total Ticket

SOLID WASTE TRANSPORTER DECLARATION: I certify under penalty of perjury that the information provided is true and correct to the best of my knowledge and belief. TO THE BEST OF MY KNOWLEDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE.

Driver's Signature Mike C

405WM-Gonic.

WASTE SHIPMENT RECORD

438

GENERATOR

1. Work site (Generator): Pound Hall
   Name
   Mailing Address 1653 Massachusetts Ave
   City/State/Zip Cambridge, MA 02138

Owner's Name: President & Fellows of Harvard College, 18 Everett Ave, Cambridge, MA 02138

Owner's telephone no.: 617-495-8259

2. Remover's name and address: NASOI, LLC, 1365 Main St, Waltham, MA 02451

Remover's telephone no.: 781-350-6600

3. Waste Disposal site (WDS): Turnkey Landfill
   Name
   Mailing Address P.O. Box 7065
   City/State/Zip Rochester, NH 03839

WDS telephone no. 800-963-4776

Additional Information:

Physical Site Location: 90 Rochester Neck Rd, Rochester, NH 03839

Profile No. 489699 NH

4. Name and address of responsible agency: MA-DEP, One Winter St, Boston, MA

5. Description of materials: Concrete with < 50 ppm of PCBs & non friable ACM

RQ, ASBESTOS, 9, NA2212, III
RQ = 1 LB (ONE POUND)

6. Containers No. 1 Type

7. Total quantity m³ (yd³) 1

8. Special handling instructions and additional information (provided by generator.)
   * EMERGENCY RESPONSE NUMBER: (860) 342-0667

9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. NOTE: Generator must retain a copy of this form.

Printed/typed name & title	Signature	Month / Day / Year
[illegible]	[signature]	8 / 14 / 12

TRANSPORTER

10. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name & title	Signature	Month / Day / Year
Charles Range Company - Driver	[signature]	8 / 14 / 2012

Address and telephone no.: PO Box 957, Londonderry, NH 03053 (603) 434-3374

11. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name & title	Signature	Month / Day / Year

Address and telephone no.:

DISPOSAL SITE

12. Discrepancy indication space

Rejected: Yes ☐ No ☐

13. Waste disposal site owner or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.

Printed/typed name & title	Signature	Month / Day / Year
[illegible]	[signature]	8 / 14 / 12

WASTE DISPOSAL SITE

HARVARD UNIVERSITY RECORD # 10751

ASBESTOS WASTE SHIPMENT RECORD

GENERATOR

BUILDING NAME: POND HALL JOB # AME:

BUILDING ADDRESS: 1563 MASS AVE CAMBRIDGE MA 02138
No. Street City State Zip

HARVARD UNIV PROJECT MGR/CONTACT: Residents & Fellowship 7458259
Name Tel. No

HARVARD UNIV PROJECT MGR/CONTACT ADDRESS: 18 EVERETT ST Camb MA. 02138
No. Street City State Zip

REMOVAL CONTRA TOR: NASOI LLC 78 25 - 66 0
Name Tel. No

REMOVAL CONTRACTOR ADDRESS: 1365 Main St. Waltham MA 02451
No. Street City State Zip

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
15 cuyd	Roll off	1

U.S EPA - REGION 1
AIR ANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(17) 565-3836

I HEREBY CE TIFY THAT THE CONTENTS OF HIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIF D, PACKAGED ND LABELLED PROPERLY FOR TRANSPORT N ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY EGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew King [signature] 8/14/1
Print Name Signature Date (month/day/year)

RQ, ASBESTOS, 9, NA2212, PG III

TRANSPORTER(S)

TRA SPORTER 1: CMAR & GEORGE COMPANIES (603) 425 2274
Name Tel. No.

ADDRESS: Dt. 102 PoBox 857 Londonderry, NH 03053
No. Street City State Zip

VEHICLE TYPE: Kenworth Roll-off LICENSE PLATE. AP3203 NH
Make/Description State

SIGN TURE: [signature] DATE OF RANSPORT: 8/14/21

TEMPORARY STORAGE LOCATION:
Name

A DRESS:
No. Street City State Zip

OPERATOR:
No. Street City State Zip

S GNATURE: DATE OF RECEIPT:

TRANSPORTER 2:
Name Tel N

ADDRESS:
No. Street State Zip

VEHICLE TYPE: LICENSE PLA E:
Mak /Description State Mo.

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Waste Management
Name Tel. No.

ADDRESS: 90 Rochester Neck Rd Rochester NH 03839
No treet City State Zi

OPERATOR:
No eet City State Zip

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECE PT OF ASBESTOS MATERIALS DESCRIBED BY THIS S IP EN ECORD, EXCEPT AS NOTED ABOVE:

[signature] [signature] 8/14/2
Print Name Signature Date of Receipt (month/day/year)

Shipment Record Distributio :

Copy I: To be completed by spo a e a d ret rne to Ha Un e ity, ñvi me tal He it & Safe ac st ne S t, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file cop

Copy III: To be returned to Harva U ersity n i o nta He th & afety, 6 Blac o e Street, amb ge, MA 02139 within 7 days.

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 822237

Customer Name NORTHAMERICAN12 NORTH AMERICA
Ticket Date 08/14/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest na
Destination
Generator NE-PRESIDENTNADFELLOWSHARVARD

Carrier CHARLES GEO CHARLES GEORGE TRUCKING
Vehicle# 435 Volume
Container
Driver
Check#
Billing # 0111242
Gen EPA ID Not Required
PO
Profile 489699NH (NON FRIABLE ASBESTOS DEB
President & Fellows of Harvard College

	Time	Scale	Operator	Inbound		
In	08/14/2012 12:16:09	scale 1 inbou	eric metzler		Gross	63300 lb
Out	08/14/2012 12:47:50	scale 2 outbo	phil bolsvert		Tare	37940 lb
					Net	25360 lb
					Tons	12.68

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Asb Non Fri-Tons-A	100	12.68	Tons				MA
2	FUEL-Fuel Surcharg	100		%				MA
3	EVF-P-Standard Env	100		%				MA

Total Fees
Total Ticket

SOLID WASTE TRANSPORTER DECLARATION: I certify under penalty of perjury that the information provided is true and correct to the best of my knowledge and belief. TO THE BEST OF MY KNOWLEDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE.

Driver's Signature

405WM-Gonic.

WASTE SHIPMENT RECORD

HU # 16753

GENERATOR

1. Work site (Generator): Hurd Hall
   Name
   Mailing Address 1653 Massachusetts Ave
   City/State/Zip Cambridge, MA 02138

Owner's Name: President & Fellows of Harvard College, 18 Everett Ave, Cambridge, MA 02138

Owner's telephone no.: 617-495-8259

2. Remover's name and address: NASDI, LLC, 1365 Main St, Waltham, MA 02451

Remover's telephone no.: 781-250-6600

3. Waste Disposal site (WDS): Turnkey Landfill
   Name
   Mailing Address P.O. Box 7065
   City/State/Zip Rochester, NH 03839

   Physical Site Location 40 Rochester Neck Rd, Rochester, NH 03839

WDS telephone no.: 800-963-4776

Additional Information:

Profile No. 4 8 9 6 9 9 N

4. Name and address of responsible agency: MA - DEP, One Winter St, Boston, MA

5. Description of materials: concrete with < 50ppm PCBs & non friable ACM

RQ, ASBESTOS, 9, NA2212, III
RQ = 1 LB (ONE POUND)

6. Containers No. Type

7. Total quantity m³ (yd³): 30 yd

8. Special handling instructions and additional information (provided by generator.)
   * EMERGENCY RESPONSE NUMBER: (860) 342-0667

9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. NOTE: Generator must retain a copy of this form.

Printed/typed name & title	Signature	Month / Day / Year
Matthew J King / hazmat (EHS)	[signature]	7 / 14 / 12

TRANSPORTER

10. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name & title	Signature	Month / Day / Year
Charles George	[signature]	8 / 14 / 12
Address and telephone no.: Londonderry NH		

11. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name & title	Signature	Month / Day / Year
Address and telephone no.		

DISPOSAL SITE

12. Discrepancy indication space

Rejected: Yes ☐ No ☐

13. Waste disposal site owner or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.

Printed/typed name & title	Signature	Month / Day / Year
G Metzell	[signature]	8 / 14 / 12

WASTE DISPOSAL SITE

HARVARD UNIVERSITY

RECORD # 10753

ASBESTOS WASTE SHIPMENT RECORD

GENERATOR

BUILDING NAME: POUND HALL | JOB # / NAME:

BUILDING ADDRESS: 1563 MASS AVE (No. Street) CAMBRIDGE (City) MASS (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: PRESIDENTS & FELLOWS (Name) Tel. No

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 EVERETT AVE (No. Street) CAMBRIDGE (City) MASS (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASDI (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1765 ~~1563~~ MAIN ST (No. Street) WALTHAM (City) MASS (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
15 YARD	ROLL OFF	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY ND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Martha J Kiry (EHI) (Print Name) [signature] (Signature) 8/14/12 (Date (month/day/year))

RQ, ASBESTOS, 9, NA2212, PG III

TRANSPORTER(S)

TRANSPORTER 1: Charles George (Name) Tel. No.

ADDRESS: Landfill Lowell NH (No. Street City State Zip)

VEHICLE TYPE: Kenworth Roll off (Make/Description) LICENSE PLATE: (State Mo.)

SIGNATURE: [signature] DATE OF TRANSPORT: 8/14/12

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No. Street City State Zip)

OPERATOR: (No. Street City State Zip)

SIGNATURE: DATE O RECEIPT:

TRANSPORTER 2: (Name) Tel. No.

ADDRESS: (No. Street City State Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State Mo.)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: Turnkey Landfill (Name) 800-963-4976 (Tel. No.)

ADDRESS: PO Box 7065 (No. Street) Rochester (City) NH (State) 03839 (Zip)

OPERATOR: (No. Street City State Zip)

DISCREPANCY (IF ANY):

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

Emerik (Print Name) [signature] (Signature) 8/14/12 (Date of Receipt (month/day/year))

Sh pment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Copy III: To be urned to Harvard University Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 7 days.

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 822538

Customer Name NORTHAMERICAN12 NORTH AMERICA
Ticket Date 08/15/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest na
Destination
Generator NE-PRESIDENTNADFELLOWSHARVARD

Carrier CHARLES GEO CHARLES GEORGE TRUCKING
Vehicle# 90 Volume
Container
Driver
Check#
Billing # 0111242
Gen EPA ID Not Required
PO
Profile 489699NH (NON FRIABLE ASBESTOS DEB
President & Fellows of Harvard College

	Time	Scale	Operator	Inbound		
In	08/15/2012 13:27:23	scale 1 inbou	eric metzler		Gross	66700 lb
Out	08/15/2012 13:59:14	scale 2 outbo	phil boisvert		Tare	35820 lb
					Net	30880 lb
					Tons	15.44

Comments

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Asb Non Fri-Tons-A	100	15.44	Tons				MA
2	FUEL-Fuel Surcharg	100		%				MA
3	EVF-P-Standard Env	100		%				MA

Total Fees
Total Ticket

SOLID WASTE TRANSPORTER DECLARATION: I certify under penalty of perjury that the information provided is true and correct to the best of my knowledge and belief. TO THE BEST OF MY KNOWLEDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE.

Driver's Signature _____

405WM-Gonic.

WASTE SHIPMENT RECORD

HU # 10754

GENERATOR

1. Work site (Generator):
   Name: Lowell Hall
   Mailing Address: 4753 ~~1653~~ Massachusetts Ave
   City/State/Zip: Cambridge, MA 02138

Owner's Name: President & Fellows of Harvard College, 18 Everett Ave, Cambridge, MA 02138

Owner's telephone no.: 617-495-8359

2. Remover's name and address: NASDI, LLC, 1365 Main St, Waltham, MA 02451

Remover's telephone no.: 781-350-6600

3. Waste Disposal site (WDS):
   Name: Turnkey Landfill
   Mailing Address: P.O. Box 7065
   City/State/Zip: Rochester, NH 03839
   Physical Site Location: 70 Rochester Neck Rd, Rochester, NH 03839

WDS telephone no.: 800-963-4776

Additional Information:

Profile No.: 4 8 9 6 9 9 N

4. Name and address of responsible agency: MA-DEP, One Winter St, Boston, MA

5. Description of materials: Concrete with <50 PPM PCBs & non friable ACM

RQ, ASBESTOS, 9, NA2212, III
RQ = 1 LB (ONE POUND)

6. Containers No. 1 Type

7. Total quantity m³ (yd³)

8. Special handling instructions and additional information (provided by generator.)
   * EMERGENCY RESPONSE NUMBER: (860) 342-0667

9. OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and government regulations. NOTE: Generator must retain a copy of this form.

Printed/typed name & title	Signature	Month	Day	Year
Matthew J. King / hygienist	[signature]	8	15	12

TRANSPORTER

10. Transporter 1 (Acknowledgement of receipt of materials)

Printed/typed name & title	Signature	Month	Day	Year
Bhail George	William Cl[illegible]	8	15	12

Address and telephone no.: 617-0720302, William Cl[illegible]
Dayton Rd
Londonderry NH

11. Transporter 2 (Acknowledgement of receipt of materials)

Printed/typed name & title	Signature	Month	Day	Year

Address and telephone no.:

DISPOSAL SITE

12. Discrepancy indication space

Rejected: Yes ☐ No ☒

13. Waste disposal site owner or operator: Certification of receipt of asbestos materials covered by this manifest except as noted in item 12.

Printed/typed name & title	Signature	Month	Day	Year
[illegible]	[signature]	8	15	12

WASTE DISPOSAL SITE

HARVARD UNIVERSITY

ASBESTOS WASTE SHIPMENT RECORD

RECORD # 10754

GENERATOR

BUILDING NAME: POUND HALL | JOB # / NAME:

BUILDING ADDRESS: 1563 (No.) MASS AVE (Street) CAMBRIDGE (City) MASS (State) 02138 (Zip)

HARVARD UNIV. PROJECT MGR/CONTACT: PRESIDENT & FELLOWS (Name) (Tel. No)

HARVARD UNIV. PROJECT MGR/CONTACT ADDRESS: 18 (No.) EVERETT AVE (Street) CAMBRIDGE (City) MASS (State) 02138 (Zip)

REMOVAL CONTRACTOR: NASOI (Name) 781-250-6600 (Tel. No)

REMOVAL CONTRACTOR ADDRESS: 1365 (No.) MAIN ST (Street) WALTHAM (City) MASS (State) 02451 (Zip)

QUANTITY (cu. yds.)	CONTAINER TYPE	NO. OF CONTAINERS
15 YARDS	ROLL OFF	1

U.S. EPA - REGION 1
AIR MANAGEMENT
JFK BUILDING
BOSTON, MA 02203
(617) 565-3836

I HEREBY CERTIFY THAT THE CONTENTS OF THIS SHIPMENT ARE FULLY AND ACCURATELY DESCRIBED ABOVE AND ARE CLASSIFIED, PACKAGED AND LABELLED PROPERLY FOR TRANSPORT IN ACCORDANCE WITH APPLICABLE GOVERNMENT AND UNIVERSITY REGULATIONS.

UNIVERSITY AUTHORIZED SIGNATURE: Matthew J King (EHI) (Print Name) (Signature) 8/15/12 (Date (month/day/year))

RQ, ASBESTOS, 9, NA2212, PG III

TRANSPORTER(S)

TRANSPORTER 1: Charles George Trucking. (Name) (Tel. No.)

ADDRESS: 209 (No.) NASHUA Rd (Street) Londonderry (City) NH. (State) (Zip)

VEHICLE TYPE: Roll off (Make/Description) LICENSE PLATE: A98916 (State) NH. (Mo..)

SIGNATURE: DATE OF TRANSPORT: 8-15-12.

TEMPORARY STORAGE LOCATION: (Name)

ADDRESS: (No.) (Street) (City) (State) (Zip)

OPERATOR: (No.) (Street) (City) (State) (Zip)

SIGNATURE: DATE OF RECEIPT:

TRANSPORTER 2: (Name) (Tel. No.)

ADDRESS: (No.) (Street) (City) (State) (Zip)

VEHICLE TYPE: (Make/Description) LICENSE PLATE: (State) (Mo..)

SIGNATURE: DATE OF TRANSPORT:

DISPOSAL SITE

COMPANY: NASOI (Na) 781 250 6600 (Tel. No.)

ADDRESS: 1 (No) Waltham. MA (City) (State) (Zip)

OPERATOR: (No) (City) (State) (Zip)

DISCREPANCY (IF

Turnkey Landfill
90 Rochester Neck Rd.
Rochester, NH. 03839
Permit # DES-SW-SP-95-001

I HEREBY CERTIFY THE RECEIPT OF ASBESTOS MATERIALS DESCRIBED BY THIS SHIPMENT RECORD, EXCEPT AS NOTED ABOVE:

(Print Name) (Signature) 8/15/12 (Date of Receipt (month/day/year))

Shipment Record Distribution:

Copy I: To be completed by disposal site and returned to Harvard University, Environmental Health & Safety, 46 Blackstone Street, Cambridge, MA 02139 within 30 days.

Copy II: Disposal site file copy

Daily Tonnage Report
Criteria: 07/19/2012 12:00 AM to 03/27/2013 11:59 PM
Business Unit Name: WM of NH - Tree (Turnkey) - S03833 (USA)
Date: Mar 27 2013, 11:42:15 AM - Central Standard Time
Profile: 489724NH

Ticket Date	Time	Operator	Ticket	Customer	Carrier	Vehicle	Material	Tons	Status
8/24/2012	10:59:49 AM	phil boisvert	824114	NORTH AMERICAN SITE DEVELOPERS 57969	CHARLES GEO	400	Special Misc-Tons	19.82	Completed
8/24/2012	1:08:38 PM	phil boisvert	824140	NORTH AMERICAN SITE DEVELOPERS 57969	CHARLES GEO	439	Special Misc-Tons	21.09	Completed
Ticket Totals								**40.91**	**2**

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 824114

Customer Name NORTHAMERICAN12 NORTH AMERICA
Ticket Date 08/24/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest 64215
Destination
Generator NE-PRESIDENTNADFELLOWSHARVARD

Carrier CHARLES GEO CHARLES GEORGE TRUCKING
Vehicle# 400 Volume
Container
Driver
Check#
Billing # 0111242
Gen EPA ID Not Required
PO
Profile 489724NH (CONTAMINATED CONCRETE (D
President & Fellows of Harvard College

	Time	Scale	Operator	Inbound		
In	08/24/2012 10:27:54	scale 1 inbou	phil boisvert		Gross	76500 lb
Out	08/24/2012 10:59:49	scale 2 outbo	erin metzler		Tare	36860 lb
					Net	39640 lb
					Tons	19.82

Comments

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	19.82	Tons				MA
2	FUEL-Fuel Surcharg	100		%				MA
3	EVF-P-Standard Env	100		%				MA

Total Fees
Total Ticket

SOLID WASTE TRANSPORTER DECLARATION: I certify under penalty of perjury that the information provided is true and correct to the best of my knowledge and belief. TO THE BEST OF MY KNOWLEDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE.

Driver's Signature _____

405WM-Gonic.

64215

400

WASTE MANAGEMENT

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

SITE INFORMATION		MAILING INFORMATION	
Generator Name	Pound Hall	Company Name	President & Fellows of Harvard College
Site Address	1563 Massachusetts Ave	Mailing Address	18 Everett Ave
City/State/Zip	Cambridge, MA 02138	City/State/Zip	Cambridge, MA 02138
Phone No.		Phone No.	617-495-8259

WM PROFILE NO. 489724NH

DESCRIPTION OF WASTE

Concrete with <50 ppm PCB's

ADDITIONAL DESCRIPTIONS / HANDLING INSTRUCTIONS FOR MATERIAL LISTED ABOVE.

CONTAINERS

Units	Truck No.	Type
1		

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable NH state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Gordon Reynolds — Generator Authorized Agent Name (Print)

[signature] for Gordon Reynolds — Signature

Shipment Date

TRANSPORTER

Transporter Name	[illegible]	Truck No.	[illegible]
Address	[illegible]	Driver Name	[illegible]
City/State/Zip	[illegible]	Vehicle License No./State	2916
Phone No.	[illegible]	Transporter's US EPA No.	

I hereby certify that the above named material was picked up at the generator site listed above.

Driver Signature — Shipment Date 05-24-12

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature — Delivery Date

DESTINATION

Facility Name: Waste Management of New Hampshire- TLR III Refuse Disposal Facility (TLR III- RDF)

Address: PO Box 7065/90 Rochester Neck Road — City/State/Zip: Rochester, NH 03839

I hereby certify that the above named material has been received at this facility and properly disposed of.

SCALE TICKET NUMBER

Signature

Receipt Date 5-24-12

T/S/D/F COPY

WM 1500-2159

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 824140

Customer Name NORTHAMERICAN12 NORTH AMERICA
Ticket Date 08/24/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest 64216
Destination
Generator NE-PRESIDENTNADFELLOWSHARVARD

Carrier CHARLES GEO CHARLES GEORGE TRUCKING
Vehicle# 439 Volume
Container
Driver
Check#
Billing # 0111242
Gen EPA ID Not Required
PO
Profile 489724NH (CONTAMINATED CONCRETE (D
President & Fellows of Harvard College

	Time	Scale	Operator	Inbound		
In	08/24/2012 11:53:20	scale 1 inbou	phil boisvert		Gross	82280 lb
Out	08/24/2012 13:08:38	scale 2 outbo	eric metzler		Tare	40100 lb
					Net	42180 lb
					Tons	21.09

Comments

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Special Misc-Tons-	100	21.09	Tons				MA
2	FUEL-Fuel Surcharg	100		%				MA
3	EVF-P-Standard Env	100		%				MA

Total Fees
Total Ticket

SOLID WASTE TRANSPORTER DECLARATION: I certify under penalty of perjury that
[redacted] d is true and correct to the best of my knowledge and belief.
[redacted] EDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE.

64 1

439

WM WASTE MANAGEMENT

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

SITE INFORMATION		MAILING INFORMATION	
Generator Name	Pound Hall	Company Name	President & Fellows of Harvard College
Site Address	563 Massachusetts Ave.	Mailing Address	18 Ever Ave
City/State/Zip	Cambridge, MA 02138	City/State/Zip	Cambridge, MA 02138
Phone No.		Phone No.	617-495-8259

WM PROFILE NO. 489724NH

DESCRIPTION OF WASTE

Concrete with 5 50ppm PCB's

ADDITIONAL DESCRIPTIONS / HANDLING INSTRUCTIONS FOR MATERIAL LISTED ABOVE.

CONTAINERS

Units	Truck No.	Type

I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR Part 261 or any applicable NH state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Gordon Reynolds — Generator Authorized Agent Name (Print)

[signature] — Signature

Reynolds

08 - 24 - 12 — Shipment Date

TRANSPORTER

Transporter Name	Charles George Co.	Truck No.	439
Address	209 Nashua Rd.	Driver Name	Chris Bryant
City/State/Zip	Londonderry, N.H.	Vehicle License No./State	AP3099 NH
Phone No.	888-568 7274	Transporter's US EPA No.	

I hereby certify that the above named material was picked up at the generator site listed above.

[signature] — Driver Signature

08 - 24 - 12 — Shipment Date

I hereby certify that the above named material was delivered without incident to the destination listed below.

Driver Signature

Delivery Date

DESTINATION

Facility Name: Waste Management of New Hampshire- TLR III Refuse Disposal Facility (TLR III RD)

Address: PO Box 7065/90 Rochester Neck Road — City/State/Zip: Rochester NH 03839

I hereby certify that the above named material has been received at this facility and properly disposed of.

SCALE TICKET NUMBER

[signature] — Signature

8 - 24 - 12 — Receipt Date

COPY

WM 1500-2159

APPENDIX F

PCB Waste Shipment Summary
Pound Hall, Cambridge, Massachusetts

TOTAL SOIL AND GROUND SURFACE MATERIAL VOLUME DISPOSED OF AT MODEL CITY

Waste Manifest #	Volume (kg)	Volume (lb)	Volume (tons)	Containers
006306881 JJK	16300	35860	17.93	1 roll-off
Subtotal	*16,300*	*35,860*	*17.9*	*1 roll-off*

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: MA0001953263
2. Page 1 of 1
3. Emergency Response Phone: 800-424-9300
4. Manifest Tracking Number: 006306881 JJK

5. Generator's Name and Mailing Address: Harvard University Attn Lance Schumacher, 46 Blackstone Street, Cambridge, MA 02139
Generator's Site Address (if different than mailing address): 1553 Massachusetts Ave, Cambridge, MA 02138
Generator's Phone: 617-495-0150

6. Transporter 1 Company Name: W.L. French Excavating Corp.
U.S. EPA ID Number: MAC300011509

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

8. Designated Facility Name and Site Address: CWM Chemical Services LLC, 1550 Balmer Road, Model City, NY 014107
U.S. EPA ID Number: NYD049836679
Facility's Phone: 716-285-1550

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 REGULATED MATERIAL, SOIL	1	CM	4597-25	T	MA99
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
PCB Impacted Soil <14 Mg/Kg
WM Profile NY201338
Item 11 is Estimated Weight
SR# 976798
Dump Date/Time: 6:30 am 3/12/12
81650732
recd 35860P

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: LANCE D. Schumacher
Signature: [signature]
Month 03 Day 09 Year 12

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

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Tom Anderson
Signature: [signature]
Month 3 Day 9 Year 12
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
qty est actual recd 35860P
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. H132
2.
3.
4.

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: Jody Parfinski
Signature: Jody Parfinski
Month 3 Day 12 Year 12

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

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

DESIGNATED FACILITY TO GENERATOR

WASTE MANAGEMENT

CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
(716) 286-1550
(716) 286-0211 Fax

HARVARD UNIVERSITY
ATTN: LANCE SCHUMACHER
MAD001963263
46 BLACKSTONE,ENV/SAFETY PROGRAMS
CAMBRIDGE MA 02139

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from HARVARD UNIVERSITY on 03/12/12 as described on Shipping Document number 006306881JJK Sequence number 01.

Profile Number: NY301358
CWM Tracking ID: 8165073201
CWM Unit #: 1*0
Disposal Date: 03/12/12

I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the date listed above.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 352951
03/13/12

For questions please call
our Customer Service Dept.
at (800) 843-3604

APPENDIX G: DATA VALIDATION SUMMARIES

POUND HALL - PROJECT SUMMARY

ConTest Analytical Laboratory Job Numbers: 12B0478, 12B0532, 12B0579, 12B0634, 12B0635, 12B0639, 12B0767, 12B0813, 12B0814, 12B0894, 12B0895, 12B0896, 12B0994, 12B0995, & 12C0113

A modified Tier II validation was performed on the data. The criteria detailed below were used to qualify the data. Raw data were not used to verify the results reported by the laboratory.

Samples were received at 2.6, 2.8, 2.9, 4.1, 4.8, 5.6, 5.9, 14.3, and 20.8 degrees Celsius. Some samples were received above 6.0 degrees Celsius. The samples were collected the same day they were submitted to the laboratory. No qualifications will be applied.

PCBs:

All polychlorinated biphenyl compound (PCB) samples were extracted and analyzed within technical holding times. No qualifications will be applied.

All PCB surrogates met acceptance criteria. No qualifications will be applied.

The PCB method blanks were non-detect (ND) for all target analytes. No qualifications will be applied.

PCB field blank samples PH-VBQ-240 (12B0995-01), PH-VBQ-260 (12B0995-02), and PH-VBQ-281 (12B0995-03) were ND for all target analytes. No qualifications will be applied.

The PCB matrix spike/matrix spike duplicate (MS/MSD) performed on samples PH-VBS-243 (12B0579-01), PH-VBS-266 (12B0813-01), and PH-VBS-278 (12B0894-01) met acceptance criteria (40%-140% & <30%RPD) with the following exceptions:

LAB ID	SAMPLE ID	PCB-1016 (%) MS/MS/MSD/MSD	PCB-1260 (%) MS/MS/MSD/MSD	QUALIFIER
12B0813-01	PH-VBS-266	OK/OK/OK/OK	301/303/311/314	None, PCB-1268 interference

The PCB laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) met recovery and relative percent difference (RPD) acceptance criteria with the following exceptions:

LCS/LCSD ID	PCB-1016 (%) RPD/RPD	PCB-1260 RPD/RPD	QUALIFIER
B046969-BS1/BSD1	OK/OK	60.7/45.4	None, not on RPD alone

PCB field duplicate samples PH-VBS-258 (12B0639-05)/PH-VBSD-259 (12B0639-06) and PH-VBS-279 (12B0894-02)/PH-VBS-280 (12B0894-03) met acceptance criteria. No qualifications will be applied.

The RPD between the column results for all detected PCBs met acceptance criteria (≤ 25%) with the following exceptions:

LAB ID	SAMPLE ID	PCB	RPD	QUALIFIER
12B0813-02	PH-VBS-267	1268	32.5	J
12B0814-01	PH-VBS-271	1260	37	J

According to the case narrative "Due to continuing calibration non-conformance on the confirmatory detector, the lower of the two results was reported." for PCB-1268 for samples PH-VBS-266 (12B0813-

ConTest Analytical Laboratory Job Numbers: 12B0478, 12B0532, 12B0579, 12B0634, 12B0635, 12B0639, 12B0767, 12B0813, 12B0814, 12B0894, 12B0895, 12B0896, 12B0994, 12B0995, & 12C0113

01), PH-VBS-267 (12B0813-02), PH-VBS-272 (12B0814-02), and PH-VBS-282 (12B0895-01). Therefore, the detected PCB-1268 results in samples PH-VBS-266 (12B0813-01), PH-VBS-267 (12B0813-02), and PH-VBS-282 (12B0895-01) will be estimated (J).

Several samples were analyzed at a 5-fold dilution due to the high concentration of PCBs present in the sample and/or due to sample matrix. Elevated quantitation limits are reported in these samples as a result of the dilution performed.

Data Check, Inc.
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Gloria J. Switalski:
President

Date: 3/13/2012

POUND HALL- PROJECT SUMMARY

Con-Test Analytical Laboratory Job Numbers: 12C0275, 12C0288, 12C0345, 12C0419, 12C0471, 12C0476, 12C0524, 12C0570, 12C0603, 12C0605, 12C0655, 12C0718, 12C0762, 12C0851, 12C0855, 12C0977, 12D0050, 12D0315, 12D0378, 12D0427, 12D0496, 12D0497, 12D0498, 12D0688, 12D0689, 12D0692, & 12D0994

A modified Tier II validation was performed on the data. The criteria detailed below were used to qualify the data. Raw data were not used to verify the results reported by the laboratory.

Samples were received at 2.0, 2.4, 3.3, 4.0, 4.2, 4.3, 4.4, 4.6, 4.9, 5.1, 5.4, 8.1, 10.7, 17.5, 17.6, 19.4, 19.5, and 22.4 degrees Celsius. Although some samples were received above 6 degrees Celsius, most of those were on ice and submitted to the laboratory direct from sampling. No qualifications will be applied. Samples PH-CK-405 (12D0427-01) and PH-VBB-418 (12D0498-01) were received above 6 degrees Celsius, were not on ice, and/or were not submitted direct from sampling. Detected and non-detected results in samples PH-CK-405 (12D0427-01) and PH-VBB-418 (12D0498-01) will be qualified as estimated (J/UJ) since the temperature receipt requirement was exceeded.

PCBs:

All polychlorinated biphenyl compound (PCB) samples were extracted and analyzed within technical holding times. No qualifications will be applied.

All PCB surrogates met acceptance criteria (30%-150%) or were diluted out with the following exceptions:

LAB ID	SAMPLE ID	TCX (%/%)	DCB (%/%)	QUALIFIER
12C0762-09	PH-VBQ-379	OK/OK	29.2/29.6	UJ, All PCBs

TCX= tetrachloro-m-xylene DCB = decachlorobiphenyl

The PCB method blanks were non-detect (ND) for all target analytes. No qualifications will be applied.

PCB field blank samples, PH-VBQ-300 (12C0288-03), PH-VBQ-326 (12C0605-11), PH-VBQ-340 (12C0605-12), PH-VBQ-361 (12C0718-01), PH-VBQ-379 (12C0762-09), and PH-VBQ-399 (12D0378-01), were ND for all target analytes. No qualifications will be applied.

The PCB matrix spike/matrix spike duplicate (MS/MSD) performed on samples PH-VBC-290 (12C0275-01), PH-VBC-318 (12C0471-02), PH-VBC-314 (12C0476-01), PH-VBC-333 (12C0524-01), PH-VBC-355 (12C0655-01), PH-VBC-380 (12C0851-01), PH-VBC-400 (12D0378-02), PH-VBC-406 (12D0496-01), and PH-VBC-421 (12D0688-01) met laboratory acceptance criteria (40-140%) with the following exceptions:

LAB ID	SAMPLE ID	PCB-1016 (%) MS/MS/MSD/MSD	PCB-1260 (%) MS/MS/MSD/MSD	QUALIFIER
12C0471-02	PH-VBC-318	OK/OK/OK/OK	276/265/228/222	None, PCB-1254 interference
12C0476-01	PH-VBC-314	OK/OK/OK/OK	212/281/229/297	None, high PCB-1260 in sample
12C0524-01	PH-VBC-333	148/212/OK/192	424/394/366/339	None, PCB-1016 ND and PCB-1254 interference
12C0655-01	PH-VBC-355	OK/289/165/301	261/142/432/323	None, PCB-1016 ND and high PCB-1260 in sample
12D0378-02	PH-VBC-400	OK/OK/OK/OK	-83.1/-35.8/-122/-48.4	None, high PCB-1260 in sample
12D0688-01	PH-VBC-421	166/212/192/241	493/18.5/512/25.4	None, PCB-1016 ND and high PCB-1260 in sample

Con-Test Analytical Laboratory Job Numbers: 12C0275, 12C0288, 12C0345, 12C0419, 12C0471, 12C0476, 12C0524, 12C0570, 12C0603, 12C0605, 12C0655, 12C0718, 12C0762, 12C0851, 12C0855, 12C0977, 12D0050, 12D0315, 12D0378, 12D0427, 12D0496, 12D0497, 12D0498, 12D0688, 12D0689, 12D0692, & 12D0994

The PCB laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) met acceptance criteria (60%-140%, 30%-RPD) with the following exceptions:

LCS/LCSD ID	PCB-1016 (%) LCS/LCSD/LCS/LCSD	PCB-1260 LCS/LCSD/LCS/LCSD	QUALIFIER
B049752-BS1/BSD1*	11.2/10.7/OK/OK	28.8/27.1/OK/OK	J/UJ All 12D0496

*The RPD for PCB-1016 (162%/164%) and PCB-1260 (111%/120%) exceeded acceptance criteria (<30%).

PCB field duplicate samples PH-VBC-298 (12C0288-01)/PH-VBCD-299 (12C0288-02), PH-VBC-321 (12C0476-05)/PH-VBCD-322 (12C0476-06), PH-VBC-335 (12C0524-03)/PH-VBCD-339 (12C0524-07), PH-VBC-375 (12C0762-05)/PH-VBCD-378 (12C0762-08), PH-VBC-400 (12D0378-02)/PH-VBCD-401 (12D0378-03), and PH-VBC-418 (12D0689-01)/PH-VBCD-419 (12D0689-2) met acceptance criteria with the following exceptions. PCB-1268 was not detected in the sample but was detected at greater than two times the reporting limit in the duplicate in field duplicate pair PH-VBC-375 (12C0762-05)/PH-VBCD-378 (12C0762-08). The detected and non-detected PCB-1268 results will be estimated (J/UJ) in all samples in SDG 12C0762-08. The relative percent difference (RPD) for PCB-1260 (65%) in field duplicate pair PH-VBC-418 (12D0689-01)/PH-VBCD-419 (12D0689-2) exceeded acceptance criteria (≤50%). The detected PCB-1260 results will be estimated (J) in samples PH-VBC-418 (12D0689-01) and PH-VBCD-419 (12D0689-2).

The RPD between the column results for all detected PCBs met acceptance criteria (≤25%) with the following exceptions:

LAB ID	SAMPLE ID	PCB	RPD	QUALIFIER
12C0275-05	PH-VBC-297	1254	28.2	J
12C0345-01	PH-VBC-302	1254	25.5	J
12C0345-02	PH-VBC-303	1254	25.1	J
12C0419-01	PH-VBC-306	1254	31.7	J
12C0476-12	PH-VBC-312	1260	25.3	J
12C0655-02	PH-VBC-357	1254	26	J
12C0655-05	PH-VBC-360	1260	27	J
12C0855-02	PH-VW-390	1254	31.3	J

Some samples were analyzed at a dilution due to the high concentration of PCBs present in the samples and/or due to sample matrix. Elevated quantitation limits are reported in these samples as a result of the dilutions performed.

Several samples contained two incompletely resolved Aroclors (flagged O-03 by the laboratory). The laboratory reported the closest matching pattern.

Several samples contained two incompletely resolved Aroclors (flagged O-19 by the laboratory). The laboratory reported the closest matching pattern. The sample possibly contains Aroclor-1260 as well.

Several samples contained two incompletely resolved Aroclors (flagged Z-01 by the laboratory). The laboratory reported the higher of the two values.

POUND HALL- PROJECT SUMMARY

Con-Test Analytical Laboratory Job Numbers: 12C0275, 12C0288, 12C0345, 12C0419, 12C0471, 12C0476, 12C0524, 12C0570, 12C0603, 12C0605, 12C0655, 12C0718, 12C0762, 12C0851, 12C0855, 12C0977, 12D0050, 12D0315, 12D0378, 12D0427, 12D0496, 12D0497, 12D0498, 12D0688, 12D0689, 12D0692, & 12D0994

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Gloria J. Switalski:
President

Date: 5/16/2012

POUND HALL - PROJECT SUMMARY

ConTest Analytical Laboratory Job Numbers: 11L0484, 12A0058, 12B0161, 12B0162, 12B0281, 12B0641, 12B0768, 12D1043, 12D1044, 12E0051, 12E0246, 12E0247, 12E0291, 12E0382, 12E0471, 12E0472, 12E0556, 12E0612, 12E0636, 12E0663, 12E0712, 12E0785, 12E0862, 12E0909, 12E1005, 12E1105, 12E1181, 12F0044, 12F0045, 12F0081, 12F0190, 12F0243, 12F0325, 12F0373, 12F0486, 12G0326, 12G0391, & 12H0025

A modified Tier II validation was performed on the data. The criteria detailed below were used to qualify the data. Raw data were not used to verify the results reported by the laboratory.

Samples were received at 2.0, 2.6, 3.0, 3.4, 3.5, 3.6, 3.7, 3.9, 4.1, 4.3, 4.4, 5.3, 5.6, 5.9, 6.0, 8.8, 9.4, 14.3, 20.0, 20.6, 22.4, 23.6, 24.4, 24.5, 26.4, and 27.8 degrees Celsius. Some samples were received above 6.0 degrees Celsius. However, most of these samples were collected the same day they were submitted to the laboratory and no qualifications will be applied. The samples in sample delivery groups (SDG) 12E0291 collected on May 4, 2012, 12E0556, and 12E1005 will be estimated (J/UJ) since sample receipt temperatures were exceeded and the samples were not submitted on the day of collection.

PCBs:

All polychlorinated biphenyl compound (PCB) samples were extracted and analyzed within technical holding times. No qualifications will be applied.

All PCB surrogates met acceptance criteria or were diluted out. No qualifications will be applied.

The PCB method blanks were non-detect (ND) for all target analytes. No qualifications will be applied.

PCB field blank samples PH-VBCQ-420 (12E0612-01), PH-VBCQ-440 (12E0612-02), PH-VBCQ-552 (12F0243-01), PH-VBCQ-568 (12F0243-02), and PH-VBCQ-575 (12F0325-02) were ND for all target analytes. No qualifications will be applied.

The PCB matrix spike/matrix spike duplicate (MS/MSD) performed on samples PH-CBA-139 (11L0484-01), PH-CBB-185 (12A0058-01), PH-VBB-222 (12B0161-01), PH-VBB-235 (12B0281-01), PH-VBC-433 (12D1043-03), PH-CBC-450 (12E0246-01), PH-VBC-511 (12E1105-01), PH-VBC-522 (12F0044-01), and PH-VBC-543 (12F0081-01) and the PCB MS performed on TCLP sample PH-CBC-510 (12F0325-01) met recovery and relative percent difference (RPD) acceptance criteria (40%-140% & <30%RPD) with the following exceptions:

LAB ID	SAMPLE ID	PCB-1016 (%) MS/MS/MSD/MSD	PCB-1260 (%) MS/MS/MSD/MSD	QUALIFIER
12E0246-01	PH-CBC-450	148/OK/145/OK	-105/-158/-35.6/-97.1	None, PCB-1254 interference

The PCB laboratory control sample (LCS)/laboratory control sample duplicate (LCSD) met recovery and RPD acceptance criteria with the following exceptions:

LCS/LCSD ID	PCB-1016 (%) LCS/LCS/LCSD/LCSD	PCB-1260 (%) LCS/LCS/LCSD/LCSD	QUALIFIER
B051771-BS1/BSD1	OK/OK/46.5/37.1	OK/OK/40.2/37.2	J/UJ All PCBs in 12E0712-01 through -08

PCB field duplicate samples PH-CBA-169 (11L0484-11)/PH-CBAD-170 (11L0484-12), PH-VBB-232 (12B0162-09)/PH-VBBD-233 (12B0162-10), PH-CN-459 (12E0291-08)/PH-CND-463 (12E0291-12),

POUND HALL - PROJECT SUMMARY

ConTest Analytical Laboratory Job Numbers: 11L0484, 12A0058, 12B0161, 12B0162, 12B0281, 12B0641, 12B0768, 12D1043, 12D1044, 12E0051, 12E0246, 12E0247, 12E0291, 12E0382, 12E0471, 12E0472, 12E0556, 12E0612, 12E0636, 12E0663, 12E0712, 12E0785, 12E0862, 12E0909, 12E1005, 12E1105, 12E1181, 12F0044, 12F0045, 12F0081, 12F0190, 12F0243, 12F0325, 12F0373, 12F0486, 12G0326, 12G0391, & 12H0025

PH-VBC-478 (12E0663-01)/PH-VBCD-479 (12E0663-02), PH-VBC-498 (12E0785-07)/PH-VBCD-499 (12E0785-08), PH-VBC-523 (12F0044-02)/PH-VBCD-524 (12F0044-03), PH-VBC-550 (12F0081-08)/PH-VBCD-551 (12F0081-09), and PH-VBC-563 (12F0190-06)/PH-VBCD-564 (12F0190-07) met acceptance criteria. No qualifications will be applied.

The RPD between the column results for all detected PCBs met acceptance criteria (≤ 25%) with the following exceptions:

LAB ID	SAMPLE ID	PCB	RPD	QUALIFIER
12D1044-01	PH-CK-436	1254	30.5	J
12E0862-01	PH-CBK-501	1254	25.1	J
12F0044-01	PH-VBC-522	1254	26	J
12F0045-01	PH-CBK-542	1254	44.7	J

According to the case narrative, for Aroclor 1254 in sample PH-CBK-542 (12F0045-01) and Aroclor 1242 in sample PH-CBK-0582 (12G0391-01); "Sample fingerprint does not match standard exactly. Aroclor with the closet matching pattern is reported." No qualifications will be applied.

According to the case narrative "Due to continuing calibration non-conformance on the confirmatory detector, the lower of the two results was reported." for Aroclor 1260 for sample PH-CBK-580 (12G0326-01). Therefore, the detected Aroclor 1260 result in sample PH-CBK-580 (12G0326-01) will be estimated (J).

According to the case narrative, for Aroclor 1260 in sample PH-CW-0583 (12H0025-01); "Sample contains two incompletely resolved Aroclors. Sample was quantitated against the closest matching standard." No qualifications will be applied.

Several samples were analyzed at a dilution due to the high concentration of PCBs present in the sample and/or due to sample matrix. Elevated quantitation limits are reported in these samples as a result of the dilution performed.

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Date: 8/24/2012