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DRIVE RESULTS

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December 7, 2012

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
Former Stewart Commons Dining Hall
University of Maine, Orono, Maine

Dear Ms. Tisa:

On behalf of the University of Maine, Woodard & Curran has prepared this Final Completion Report to comply with U.S. Environmental Protection Agency (EPA) requirements under 40 CFR 761 and in accordance with EPA's June 15, 2011 PCB Cleanup and Disposal Approval under 40 CFR 761.61(a) and (c) and 761.79(h). This Report includes a narrative of the PCB remediation activities, laboratory analytical data, and copies of waste shipment records generated in association with the work completed at the former Stewart Commons Dining Hall at the UMaine campus in Orono, Maine.

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 222822

Enclosure(s)

cc: Carolyn McDonough, University of Maine
Chip Gavin, University of Maine System
Nick Hodgkins, MEDEP

Final Completion Report

PCB Remediation

Former Stewart Commons Dining Hall

University of Maine
Orono, Maine

Project No. 222822.04

University of Maine

December 2012

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1. INTRODUCTION

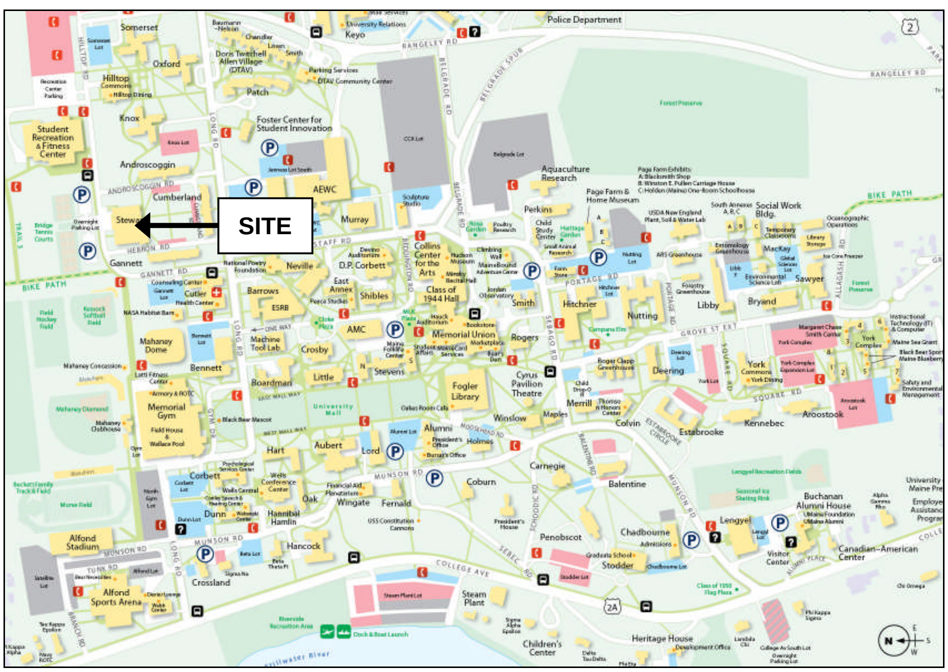
Woodard & Curran has prepared and is submitting this Final Completion Report on behalf of the University of Maine (UMaine). The remediation of polychlorinated biphenyls (PCBs) at the former Stewart Commons dining hall located on the University of Maine campus in Orono, Maine (the Site) has been completed in accordance with the Notification[1] and the U.S. Environmental Protection Agency's (EPA) June 15, 2011 PCB Cleanup and Disposal Approval granted under 40 CFR 761.61(a) and (c) and 761.79(h) (the Approval), as subsequently modified by EPA. A copy of the Approval is provided as Appendix A to this Report.

This Report documents the PCB remediation activities completed at the Site in accordance with the Notification and the Approval.

1.1 SITE DESCRIPTION

Stewart Commons is a former dining hall located near the northern end of the UMaine campus between Hilltop Road (north), Androscoggin Road (east), Long Road (south), and Hebron Road (west). A Site Locus Map of the surrounding area is provided as Figure 1-1 below. The existing Stewart Commons building, originally constructed in 1963, served as a dining hall until it was vacated in 2006. The one-story building was constructed primarily of concrete and brick masonry in the northern (rear) portion of the building and of concrete, granite, and metal in the southern (front) portion of the building. The building was constructed with three main entrance ways on the south face of the building, with various side entries present on the east and west faces, and loading dock entrances present on the north face of the building. Surrounding ground surfaces are generally flat in elevation and consist of asphalt or grass-covered soils.

Figure 1-1: Campus Map



[1] Information was prepared by Woodard & Curran on behalf of UMaine to satisfy the requirements under 40 CFR 761.61(a) and (c) and 761.79(h). Information was submitted on March 18, 2011 (PCB Remediation Plan; the "Plan"); May 26, 2011 (Response to EPA Comments); and September 9, 2011 (Plan Modification Request: Soil Removal and Metal Decontamination; the "Plan Modification"). These submittals, together, form the "Notification."

1.2 SITE BACKGROUND

The Stewart Commons building at the University of Maine was constructed during a time period when PCBs were sometimes used in certain building materials (e.g., caulking). Prior to the renovation of the building, caulking was observed along select building wall joints. Given the potential for this caulking to contain PCBs (due to a 1960's construction date) and the knowledge that it would be disturbed during the renovation work, caulking materials present at the Site were inspected and inventoried, and representative samples were collected for PCB analysis.

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. After completing the characterization of PCB-containing materials at the Site, these results were used to develop a remedial strategy that was incorporated into the overall renovation project plans as presented in the Notification.

The Site underwent large-scale renovation and rehabilitation activities beginning in January of 2012 to redevelop the formerly vacant building for reuse as the Stewart New Media/Arts Complex. The renovated facility is intended to serve as a high-tech learning center and art gallery to provide additional learning and display space for students at UMaine.

1.3 PROJECT TEAM

The remediation project team consisted of the following parties:

- University of Maine – Owner;
- Bruner/Cott & Associates – Architect;
- The Penobscot Company – General Contractor;
- Woodard & Curran – Environmental Consultant (PCB remediation);
- RJ Enterprises (RJE) –Remediation Subcontractor (PCB remediation);
- Environmental Management, Inc. – Remediation Subcontractor (PCB earthwork); and
- ENPRO – Remediation Subcontractor (PCB waste removal & transport).

2. REMEDY IMPLEMENTATION – BUILDING MATERIALS

This section describes the PCB cleanup and disposal activities conducted with regards to PCB-containing caulking and adjacent building materials consistent with the conditions of the Approval.

2.1 REMEDY OVERVIEW

In general, the remedial approach consisted of the following activities:

- Removal of PCB-containing materials for off-site disposal, including certain interior and exterior caulking, concrete block walls, plaster ceilings, brick walls, windows, doors, metal frames and panels, vents, and other miscellaneous features (*Section 2.2*);
- Decontamination of certain PCB-impacted metal columns and granite panels scheduled to remain in place or to be reused (*Section 2.3*).

Drawings depicting the sample locations described in this section are provided as Figure 2-1 (South Façade Plan View and Sample Locations) and Figure 2-2 (East and West Façade Elevations and Sample Locations). Tables presenting the verification data are referenced in each section below.

2.1.1 Notifications and Controls

Prior to initiating the remedial activities, notifications and controls were implemented as described in Section 3.1 of the PCB Remediation Plan. These preparations included the submittal of a notification and certifications to EPA, the establishment of site access controls, establishment of scaffolding to access certain work areas, set up of work zone barriers and poly sheeting around work areas, and the protection of adjacent ground surfaces by covering the surfaces with poly sheeting.

2.1.2 Sampling & Analytical Methods

Verification samples collected in support of the remediation activities described herein were collected in accordance with generally accepted procedures for environmental sampling. Concrete/brick 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.

Samples were transferred to Analytics Environmental Laboratory of Portsmouth, New Hampshire 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 REMOVAL OF PCB-CONTAINING BUILDING MATERIALS

This section documents the removal and off-site disposal of those materials identified with PCBs above the unrestricted use cleanup levels established under 40 CFR 761. After removing the PCB source materials (i.e., PCB ≥ 50 ppm caulking), adjacent materials were segregated for disposal by implementing a “cut line” remediation approach. Materials on one side of the cut line (containing PCBs above the unrestricted use cleanup level) were managed for off-site disposal as PCB waste, and materials on the other side of the cut line (containing PCBs below the unrestricted use cleanup level) were transported off-site for disposal as general demolition debris.

To determine the location of the cut line for each media, pre-delineation or verification samples were collected at the frequencies specified in the Notification. Analytical results from these samples were evaluated to determine whether the cut line had been established by comparison to the following criteria:

- Analytical results ≤ 10 µg/100cm^2 for non-porous media (surface wipe samples) or ≤ 1 ppm for porous media (bulk samples) – cut line established at the distance represented by the sample location; or
- Analytical results > 10 µg/100cm^2 for non-porous media (surface wipe samples) or > 1 ppm for porous media (bulk samples) – proposed cut line adjusted; more distant delineation samples collected at the specified frequency until unrestricted use cleanup level achieved.

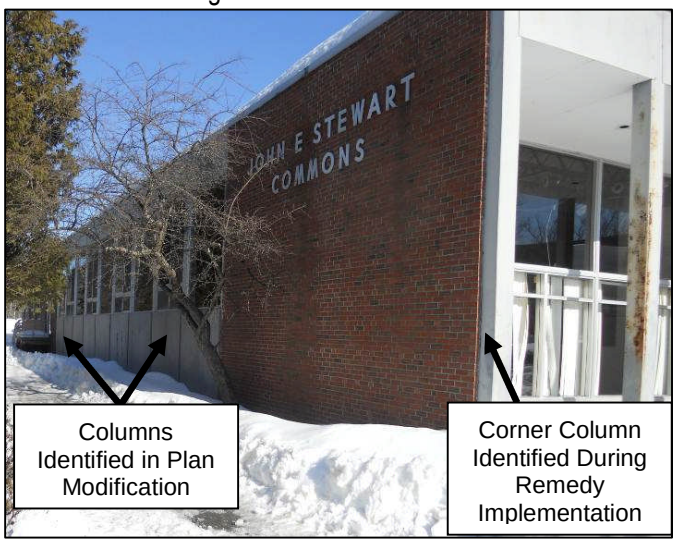
Table 2-1 presents the data at the established cut line for each media subject to a cut line remediation approach. Details of the removal and segregation activities performed for each media are presented in the following sections.

2.2.1 PCB ≥ 50 ppm Caulking

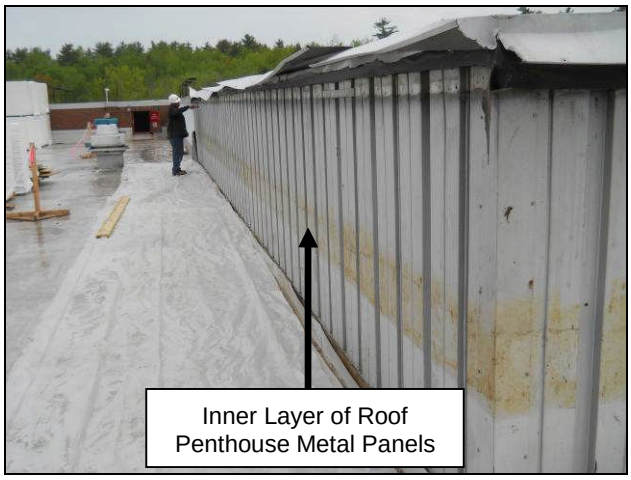
Interior and exterior caulking identified with PCBs ≥ 50 ppm as described in the Notification was removed for off-site disposal as PCB waste ≥ 50 ppm. Gross caulking removal was completed under proper site controls using non powered hand tools (e.g., utility knives, hand scrapers/putty knives, and/or a hammer and chisel) in accordance with the Notification and the PCB Remediation Work Plan prepared by RJ Enterprises. As described in subsequent sections of this Report, residual or remnant caulking removal was typically achieved by either removal of the coated building material in its entirety (e.g., adjacent window frames or bricks), or by decontamination of the coated building material (e.g., adjacent metal columns or granite panels). Waste materials were bagged within the work area prior to being transported to the lined roll-off containers staged adjacent to the work area.

In addition to the caulking materials identified with PCBs ≥ 50 ppm as described in the Notification, PCB ≥ 50 ppm caulking was identified at two additional exterior locations after remedy implementation began in January 2012. The nature and extent of these materials, as well as the remedial approach applied to these materials consistent with the provisions of the Notification, is as follows:

- *Southeast and Southwest Building Corners*: the southeast and southwest corners of the building each feature a structural metal column observed to be identical to the structural metal columns present along the east and west façades of the building as identified in Section 2.1.2 of the Plan Modification. A single bead of caulking was observed along the length of the joint measuring 15 linear feet (l.f.) between the metal column and the adjacent brick wall at each corner, where the caulking was observed to be the same that was present at other metal column to brick wall joints (i.e., previous sample UMSC-CBK-005, reported with PCBs at 135,000 ppm). The same joint configuration was also observed at two shorter heights of brick wall near the same building corners, which each measured 6 l.f. in length. The entire 42 l.f. of this caulking (2 joints x 15 l.f. plus 2 joints x 6 l.f.) was removed for off-site disposal as PCB waste ≥ 50 ppm by the same methods as other PCB ≥ 50 ppm caulking at the building. The adjacent bricks and metal columns were managed as described in Sections 2.2.6 and 2.3.3 of this Report, respectively.

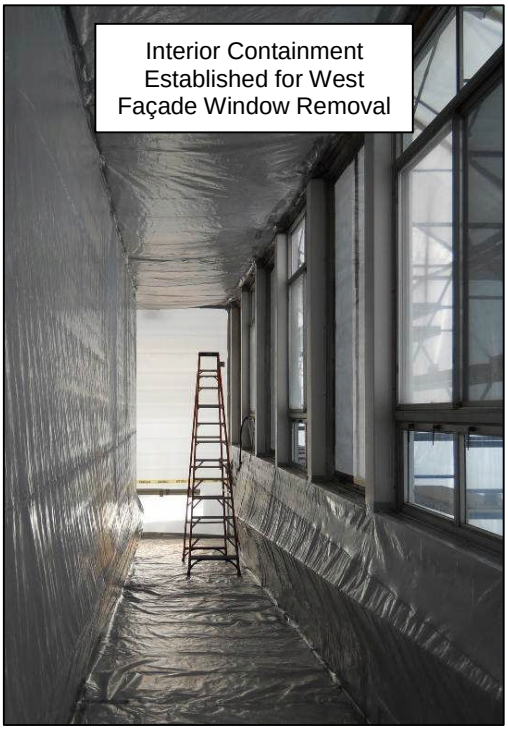


- *Roof Penthouse*: the roof penthouse structure depicted in the photos below was scheduled for demolition as part of the building renovation project. No caulking or sealants were identified in association with the metal panel joints that were visible on the outer structure at the time of initial building characterization and the development of the PCB Remediation Plan (see photo below, at left). However, after removing the outer layer of metal wall panels, an inner layer of metal wall panels were found to contain a bead of caulking at the vertical seams between each overlapping panel edge (see photo below, at right). A sample of this caulking was tested and found to contain PCBs at 407,000 ppm (similar in appearance and concentration to caulking found at east and west façade window frame to metal column joints). The total quantity of this roof penthouse caulking was approximately 340 l.f. (5-foot joints x 68 seams). The caulking, which was found in direct contact with only the inner layer of metal panels, was removed collectively with the metal panels for off-site disposal as PCB waste ≥ 50 ppm.



2.2.2 East and West Façade Windows

East and west façade windows adjacent to exterior caulking identified with PCBs ≥ 50 ppm as described in the Notification were removed for off-site disposal as PCB waste ≥ 50 ppm. The windows were removed using hand tools within a containment area as shown in the photo at right.



After gross caulking removal, the windows were the first building components to be removed on the east and west façades due to the sequence of work required in order to decontaminate the metal columns and granite panels located adjacent to these windows.

No verification samples were collected in association with the east and west façade windows, as the windows were removed in their entirety (remnant caulking, metal frames, and glass panes). Adjacent metal columns and granite panels were subsequently decontaminated as described in Section 2.3 of this Report.

2.2.3 South Façade Windows and Doors

South façade window and door frames in direct contact with interior and exterior caulking identified with PCBs ≥ 50 ppm as described in the Notification were removed for off-site disposal as PCB waste ≥ 50 ppm. Given the relatively limited quantity of the metal frames in direct contact with the PCB ≥ 50 ppm caulking (i.e., the outer perimeter only) in comparison to the total volume of the window and door frames and panes, a cut line and segregation approach was applied as proposed in the Notification.

The metal window and door frame components that were coated or in direct contact with the caulking were removed by mechanical means (saw cutting or equivalent), and disposed of with caulking as PCB waste ≥ 50 ppm. The glass panes and metal frame components not in direct contact with caulking (i.e., non-perimeter components) were segregated, subjected to surficial cleaning by wiping with alcohol, and sampled at the cut line over 100 cm^2 areas using hexane-saturated gauze wipes in accordance with the standard wipe test method under 40 CFR 761.123. The results of these samples, which were collected at the approved frequency of one sample per 100 l.f. of frame, were reported as non-detect for PCBs in 3 out of 5 samples, and were reported with PCBs at 1.7 and 2.4 $\mu g/100cm^2$ in the remaining 2 samples as presented in Table 2-1. Because each verification result met the unrestricted use cleanup level of 10 $\mu g/100cm^2$ for non-porous surfaces, the non-direct contact media was managed for disposal as general demolition waste.

2.2.4 Concrete Block Walls

The concrete block adjacent to the interior and exterior caulking associated with the south façade window and door units described above was found to contain PCBs at concentrations > 1 ppm, as described in the Notification. Due to the limited area of concrete in direct contact with caulking, a cut-line and segregation approach was implemented to

segregate the concrete containing PCBs > 1 ppm from the concrete containing PCBs ≤ 1 ppm. As shown by the delineation data presented in Table 2-1, cut lines were established at a distance of 6 inches from the caulked joint at exterior and breezeway locations (PCBs ranging from 0.307 to 0.735 ppm), and cut lines were established at a distance of 24 inches from the caulked joint at interior locations (PCBs ranging from 0.277 to 0.784 ppm). These samples were collected at the approved frequencies to establish cut lines prior to performing the work.

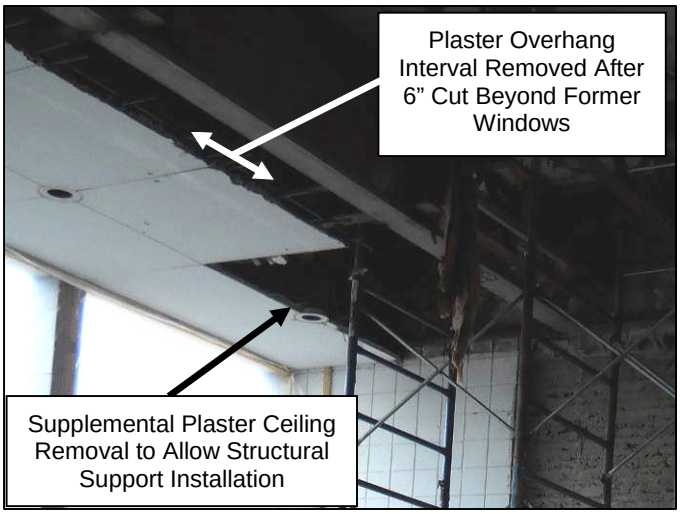
Both interior and exterior containments were established with negative pressure HEPA systems to prevent the spread of dust or debris outside of the work areas. After gross caulking removal, concrete block walls were removed by hand using chisels, hammers, and power tools. After being knocked free of the wall, the debris was either loaded by hand into polyethylene bags prior to removal from the work area, or was transferred directly by truck to lined roll-off containers staged adjacent to the remediation work areas.

Concrete confirmed to contain PCBs ≤ 1 ppm was either left in place or managed as general demolition debris (non-PCB waste) in accordance with the architect's renovation plans. Concrete containing PCBs >1 ppm (within the cut-line) was managed with the caulking and direct contact window components for off-site disposal as PCB waste ≥ 50 ppm. A photo depicting the western wall after window frame and concrete block removal was provided in Section 2.2.3 above.

2.2.5 Plaster Ceilings

The plaster ceiling overhang materials adjacent to the south façade window and door units described in Section 2.2.3 were found to be in direct contact with the exterior caulking at the upper horizontal joint of these windows. Due to the limited area of the plaster material in direct contact with caulking, a cut-line and segregation approach was implemented to segregate the plaster containing PCBs > 1 ppm from the plaster containing PCBs ≤ 1 ppm. A cut line was established at a distance of 6 inches from the caulked joint at all three of the southern lobby entrances, as shown by the delineation data presented in Table 2-1 (PCBs ranging from 0.090 to 0.387 ppm). These samples were collected at the approved frequencies to establish cut lines prior to performing the work.

The plaster ceiling removal work was performed within the same interior and exterior containments established to remove the concrete block walls. After gross caulking removal, the plaster ceiling materials were sawcut at the cut line and removed by hand using chisels and pry bars. The debris was either loaded by hand into polyethylene bags prior to removal from the work area, or was transferred directly by truck to lined roll-off containers staged adjacent to the remediation work areas.



Plaster ceiling materials confirmed to contain PCBs ≤ 1 ppm was managed as general demolition debris (non-PCB waste) in accordance with the architect's renovation plans. Plaster ceiling materials containing PCBs > 1 ppm (within the cut-line) was managed with the caulking and direct contact window components for off-site disposal as PCB waste ≥ 50 ppm. A photo depicting the plaster ceiling cut adjacent to the southwest lobby window is provided above.

2.2.6 Brick Walls

As described in the Notification, exterior bricks in direct contact with PCB ≥ 50 ppm caulking were identified for removal and off-site disposal as PCB waste ≥ 50 ppm. Brick to metal joints with PCB ≥ 50 ppm caulking had been identified at four locations (two east façade and two west façade, for a total of 60 l.f.) at the time of Remediation Plan development. Four additional joints of the same type, totaling an additional 42 l.f. in length, were identified after remedy implementation began as described in Section 2.2.1 of this Report. Because the caulking type and joint configuration was the same at all eight joints, the same remedial approach and verification sampling frequency was applied to the newly encountered locations.

Due to the limited volume of bricks in direct contact with caulking, a cut-line and segregation approach was implemented to segregate bricks containing PCBs > 1 ppm from bricks containing PCBs ≤ 1 ppm. As shown by the delineation data presented in Table 2-1, cut lines were established at a distance of 8 inches (or, one full brick width) from each vertical joint (PCBs ranging from 0.125 to 0.707 ppm). Samples were collected at the approved frequencies to establish cut lines prior to performing the work.

Containments were established with negative pressure HEPA systems to prevent the spread of dust or debris outside of the work areas. After gross caulking removal from the joints, a minimum 8-inch width (or, the first full row) of bricks were removed by hand using chisels, hammers, and power tools. After removal from the wall, the debris was either loaded by hand into polyethylene bags prior to removal from the work area, or was transferred directly by truck to lined roll-off containers staged adjacent to the remediation work areas.

Brick confirmed to contain PCBs ≤ 1 ppm was either left in place or managed as general demolition debris (non-PCB waste) in accordance with the architect's renovation plans. Brick containing PCBs > 1 ppm (within the cut-line) was managed with the caulking for off-site disposal as PCB waste ≥ 50 ppm. A photo depicting the southwest corner column after brick removal is provided above.

2.2.7 Roof Penthouse

As described in Section 2.2.1, the inner layer of roof penthouse metal panels coated with PCB ≥ 50 ppm caulking was removed collectively with the caulking for off-site disposal as PCB waste ≥ 50 ppm. The panels were removed using hand tools, stacked on polyethylene sheeting, and wrapped in the polyethylene sheeting prior to carrying the panels from the roof to the waste staging area. Because the limited volume of waste did not necessitate an additional roll-off container, the PCB waste materials from the roof penthouse were packaged in two cubic yard box containers prior to transport for off-site disposal.

2.2.8 Miscellaneous Features

Miscellaneous doors and metal vent louvers on the north façade and northern end of the east and west façades were removed as part of the renovation of the building. These features contained caulking 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. Caulking removal was verified by visual inspection by Woodard & Curran.

2.3 DECONTAMINATION OF PCB-IMPACTED BUILDING MATERIALS

This section documents the decontamination performed on select non-porous media identified with PCBs above the unrestricted use cleanup levels established under 40 CFR 761. After gross removal of the direct contact PCB source materials (i.e., PCB ≥ 50 ppm caulking) as described in Section 2.2.1, certain adjacent metal and granite building materials were decontaminated as described herein.

To determine whether decontamination was complete, verification samples were collected at the frequencies specified in the Notification, and the data was evaluated in comparison to the following criteria:

- Analytical results ≤ 10 µg/100 cm^2 – no further decontamination warranted; or
- Analytical results > 10 µg/100 cm^2 – additional decontamination to be performed, and follow-up verification wipe sample to be collected at an off-set location.

Table 2-2 presents the verification data collected for each media subject to the decontamination remedial approach. Details of the decontamination activities performed for each media are presented in the following sections.

2.3.1 South Façade Granite and Metal

As described in the Notification, certain exterior granite to metal joints in direct contact with PCB ≥ 50 ppm caulking on the south façade of the building were identified for decontamination after removal of the caulking as PCB waste ≥ 50 ppm. This included two granite panel to metal column joints at the southeast and southwest lobbies, and two granite panel to metal window frame joints at the south central lobby as shown in the photos below.

After removing the caulking and associated window and door frames from the center lobby as described in Section 2.2.3 above, the adjacent granite panel edge in former direct contact with the PCB ≥ 50 ppm caulking was decontaminated by physical means, using CAPSUR® and wire brushes to scrub the surface of the granite. The solvent was then rinsed off and the surface was wiped dry prior to inspection to confirm that all visible caulking remnants had been removed from the surface. Once inspection was complete, verification surface wipe samples were collected from the decontaminated surface in accordance with the standard wipe test method under 40 CFR 761.123. The results of these samples were reported with PCBs below the unrestricted use cleanup level at 1.1 and 2.4 µg/100cm^2 as presented on Table 2-2.

After removing the caulking from the granite to metal column joints of the two corner lobbies, the granite and metal surfaces in former direct contact with the PCB ≥ 50 ppm caulking were decontaminated by physical means, first using a paint stripper to remove the caulking and underlying paint from the metal column surface, and then followed by the use of CAPSUR® and wire brushes to scrub the granite and metal surfaces. The solvent was then rinsed off and the surfaces were wiped dry prior to inspection to confirm that all visible caulking remnants had been removed. Once inspection was complete, verification surface wipe samples were collected from the decontaminated surface in accordance with the standard wipe test method under 40 CFR 761.123. The results of these samples were reported as non-detect for PCBs in one sample, and with PCBs below the unrestricted use cleanup level at 0.8 µg/100cm^2 in the second sample as presented on Table 2-2.

In addition to the granite to metal joints described above, two granite curb edges at the southeast and southwest lobbies were adjacent to PCB ≥ 50 ppm caulking as described in the Notification. Due to the limited area requiring potential decontamination (two joints at 16 inches each), the edges of these granite curbs were chipped to a minimum distance of one inch from the edge adjacent to the former caulking. One verification wipe sample was collected from the former direct contact surface in accordance with the standard wipe test method under 40 CFR 761.123, and this sample was reported as non-detect for PCBs as presented on Table 2-2.

2.3.2 East and West Façade Granite Panels

As described in the Notification, exterior granite panels in direct contact with PCB ≥ 50 ppm caulking on the east and west façades of the building were identified for decontamination after removal of the caulking as PCB waste ≥ 50 ppm. This included nine pairs of granite panels on each of the east and west façades of the building as shown in the photo at right.

West Façade Granite Panels
(After Gross Caulking Removal and Window Removal)

Containments were established with negative pressure HEPA systems to prevent the spread of dust or debris outside of the work area. Beginning on the west façade, the joint caulking and windows above the panels were removed as described in Section 2.2.2. After window removal, the remediation subcontractor initially attempted to decontaminate the granite surfaces in former direct contact with caulking (i.e., the granite to metal column vertical joints) without removing the panels from the wall. However, due to the configuration and depth of the joint, which overlapped the metal columns by several inches, the decontamination task was unable to be completed in a satisfactory manner without first removing the panels from the wall.

In order to facilitate the decontamination task, the granite panels were removed from the building using a Lull forklift and stacked on polyethylene sheeting adjacent to the work area. Because the containment area had been deconstructed in order to access the panels on the west façade, a satellite containment was built around the stack of granite panels prior to completing the surface decontamination by sandblasting as shown in the photos below.

West Façade Granite Panels
Staged Prior to Decontamination

West Façade Granite Panels
In Containment for Decontamination

After transfer to the satellite containment, the granite panel surfaces in former direct contact with PCB ≥ 50 ppm caulking from the west façade of the building were decontaminated by sandblasting. The surfaces were then wet-wiped to remove any surficial dust left behind from the sandblasting, and the panels were inspected prior to collecting verification samples at the approved frequency in accordance with the standard wipe test method under 40 CFR 761.123. The results of the five samples collected from the west façade panels were reported as non-detect for PCBs in one sample, with PCBs below the unrestricted use cleanup level at 2.6 and 7.8 µg/100cm^2 in two samples, and with PCBs above the unrestricted use cleanup level at 17 and 21 µg/100cm^2 in two samples. These results are summarized on Table 2-2.

Prior to performing additional decontamination on the west façade granite panels represented by the two verification sample results over the cleanup level, the east façade granite panels were removed by similar methods and staged within the east façade containment adjacent to the building. Based on the verification results obtained from the west façade panels, the decontamination methods for the east façade panels were modified to include sandblasting followed by a triple wash and rinse with CAPSUR®. This combined decontamination approach achieved the unrestricted use cleanup level in all four samples collected from the east façade granite panels, with verification sample results reported with PCBs ranging from 0.6 to 8.6 µg/100cm^2 as summarized on Table 2-2.

Based on the results of the enhanced decontamination method used on the east façade granite panels, the four west façade granite panels represented by the initial verification results reported above 10 µg/100cm^2 were decontaminated by a triple wash and rinse with CAPSUR®. Two follow-up verification wipe samples were collected from the recleaned surfaces, and results were reported as non-detect for PCBs in one sample, and with PCBs at 0.8 µg/100cm^2 in the second sample as presented on Table 2-2.

Spent sandblast media was managed for off-site disposal as PCB waste ≥ 50 ppm. No free liquids were generated as a result of the decontamination work using CAPSUR®; however, rags and other disposable media used to absorb the spent solvent were managed for off-site disposal as PCB waste ≥ 50 ppm. The decontaminated granite panels were designated for reuse by UMaine (*NOTE:* in accordance with 40 CFR 761.30(u), the decontaminated materials will not be used in conjunction with food, feed, or water).

2.3.3 East and West Façade Metal Columns

As described in the Plan Modification, exterior metal columns in direct contact with PCB ≥ 50 ppm caulking on the east and west façades of the building were identified for decontamination after removal of the caulking as PCB waste ≥ 50 ppm. This included ten metal columns on each of the east and west façades of the building, as well as the additional southeast corner and southwest corner columns as identified in Section 2.2.1 of this Report. Because the caulking type and joint configuration was the same at all metal columns, the same remedial approach and verification sampling frequency was also applied to the newly encountered locations.

Containments were established with negative pressure HEPA systems to prevent the spread of dust or debris outside of the work area. Beginning on the west façade, the joint caulking and windows above the panels were removed as described in Section 2.2.2. After window removal, the remediation subcontractor performed a first round of decontamination on the metal column surfaces in former direct contact with caulking using wire brushes to scrub the surface of the metal columns with a single application of CAPSUR®. The upper portions of the metal columns (i.e., the metal column to former window joints) had unrestricted access to the former direct contact surface after removal of the windows and frames; however, as described above in Section 2.3.2, the overlap of the granite panels on the lower half of the columns made the metal decontamination task unable to be completed in a satisfactory manner without first removing the panels from the wall.

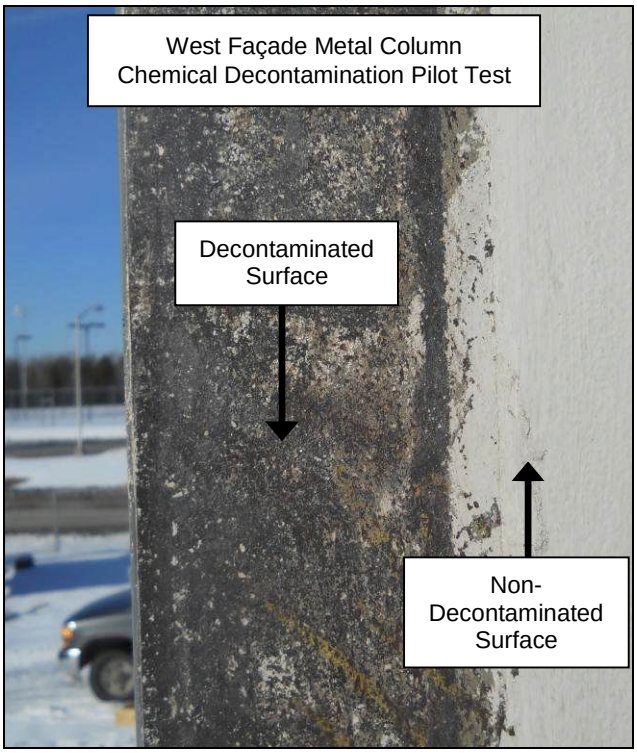
Because the upper portion of the west façade columns had unrestricted access for decontamination, and the approved verification sampling frequency would require that two samples were collected from each column (i.e., one upper half at a former window, and one lower half at a former granite panel), a first round of verification surface wipe samples was collected from the upper portion of the metal columns in former direct contact with the windows. None of the eleven samples collected after this first round of CAPSUR® decontamination met the 10 µg/100cm^2 cleanup level, with PCB results reported from 28 up to 3,260 µg/100cm^2 as presented in Table 2-2 (refer to the samples collected on February 7, 2012).

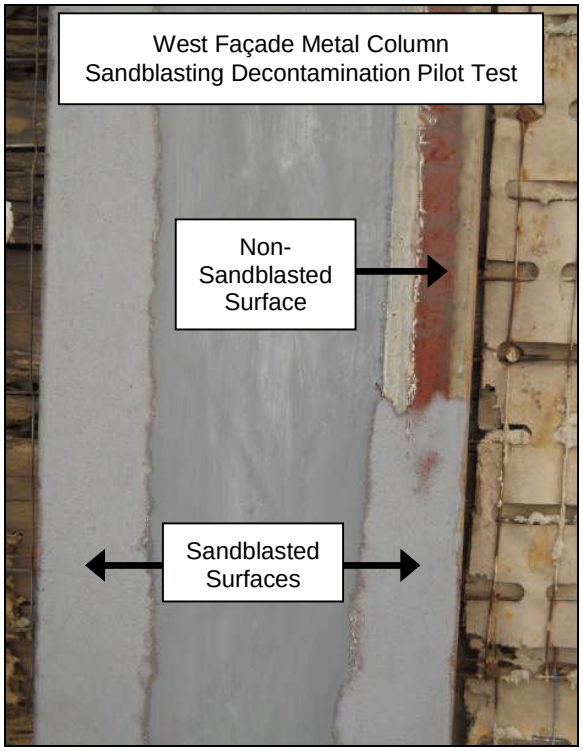
After removing the granite panels from the wall as described above in Section 2.3.2 and shown in the photo at right, the metal decontamination methods were reevaluated. Because only a single application of CAPSUR® was applied during the first round of decontamination, a pilot test was performed on the upper portion of west façade columns 3 and 4 using a triple wash / rinse / vacuum procedure. As presented in Table 2-2, the second round of verification wipe sample data collected after this pilot test on February 22, 2012 demonstrated a significant reduction in PCB concentrations on the metal column surface (from 3,260 to 170 µg/100cm^2 on column 3, and from 1,750 to 23 µg/100cm^2 on column 4); however, the results still did not meet the 10 µg/100cm^2 cleanup level. Based on these results, it was determined that the use of CAPSUR® alone would not be sufficient to achieve cleanup levels, and both chemical and physical decontamination methods were evaluated in subsequent pilot tests.

The next round of decontamination pilot testing performed on the west façade metal columns on March 1, 2012 included four types of decontamination, which are summarized below along with photos:

- One chemical decontamination pilot test was performed by applying a paint stripper followed by a mastic remover to scrape the paint from the surface of the metal column prior to cleaning with CAPSUR® by the triple wash / rinse / vacuum method (upper portion of column 1). See photo below at left.

- Three physical decontamination pilot tests were performed by sandblasting on the lower portion of the columns formerly adjacent to the granite panels; after sandblasting, the surface of the metal columns were either wiped down with CAPSUR® (column 9), wiped down with water (column 8), or not wiped down at all (column 10). See photo below at right.





The result of the chemical decontamination pilot test as demonstrated by a verification surface wipe sample collected from the upper portion of column 1 was reported as non-detect for PCBs (< 0.5 µg/100cm^2). Based on the demonstrated reduction in PCB concentrations on the surface of the metal column at this location, which had been reported with PCBs at 1,900 µg/100cm^2 prior to the chemical decontamination, this method was retained as a feasible option for the decontamination of additional metal columns.

The results of the physical decontamination pilot test as demonstrated by verification surface wipe samples collected from the lower portions of columns 8, 9, and 10 were reported as non-detect for PCBs (< 0.5 µg/100cm^2) from column 8 (surface wiped with water after sandblasting), with PCBs at 2.1 µg/100cm^2 on column 9 (surface wiped with CAPSUR® after sandblasting), and with PCBs at 10 µg/100cm^2 on column 10 (surface not wiped down after sandblasting). Based on the achievement of the unrestricted use cleanup level at each of these locations, the sandblasting followed by surficial wipe down approach was retained as a feasible option for the decontamination of additional metal columns.

Given the option of chemical or physical decontamination, the chemical decontamination method was preferred because it would not require the reestablishment of a containment area on the west façade (whereas sandblasting would necessitate a containment). However, due to the heavily corroded and pitted nature of the lower portion of the metal columns where they were formerly in contact with the granite panels, it was determined that sandblasting would be the more effective method for the lower portion of the columns. As a result, a containment was reestablished around the lower portion of the columns in order to perform sandblasting, and the upper portions of the columns were accessed by ladder and decontaminated by the chemical method described above.

After completing the chemical decontamination or sandblasting on all west façade columns, the next round of verification wipe samples was collected from the decontaminated metal column surfaces on March 19, 2012. As presented on Table 2-2, the unrestricted use cleanup level was met after sandblasting at the remaining column edges in former direct contact with caulking at the granite panel joints, with PCB results in six samples ranging from 1.5 to 3.9 µg/100cm^2 on the lower half of the west façade columns. The cleanup level was met on the upper half of the metal columns in former direct contact with caulking at the window joints after one or two rounds of chemical decontamination, with final PCB results ranging from non-detect (< 0.5 µg/100cm^2) up to 9.3 µg/100cm^2. End columns 1, 10, and 11 were also decontaminated by a combination of sandblasting and chemical methods, and were sampled at the joint adjacent to the brick wall with final PCB results ranging from non-detect (< 0.5 µg/100cm^2) up to 4.1 µg/100cm^{2}as presented in Table 2-2. Samples were collected at the approved frequency of one sample per 15 l.f. of caulking (or, one sample per vertical joint).

For the decontamination of the east façade metal columns, the granite panels were removed prior to establishing scaffolding and a containment around the east façade as described above in Section 2.3.2 and shown in the photo at right. After gross caulking removal and window removal within the containment, the full height of all east façade metal column surfaces in former direct contact with PCB ≥ 50 ppm caulking were decontaminated by sandblasting followed by a triple wash / rinse / vacuum with CAPSUR®. Verification surface wipe samples collected at the approved frequency of one sample per 15 l.f. of caulking (or, one sample per vertical joint) demonstrated that the unrestricted use cleanup level had been met in all 21 samples after the first round of decontamination on the east façade, with PCB results ranging from non-detect (< 0.5 µg/100cm^2) up to 6.4 µg/100cm^2.

East Façade Metal Column and Granite Panel Decontamination Work Area

Spent sandblast media was managed for off-site disposal as PCB waste ≥ 50 ppm. No free liquids were generated as a result of the decontamination work using CAPSUR®; however, rags and other disposable media used to absorb the spent solvent were managed for off-site disposal as PCB waste ≥ 50 ppm. The decontaminated metal columns either remained in place or were managed off-site as general demolition debris (non-PCB waste) in accordance with the architect's renovation plans: east façade columns 1, 3, 4, 5, 7, 8, 9, 10, and 11, and west façade columns 4, 6, 9, 10, and 11 remained in place as structural support in the renovated building after decontamination was complete; east façade columns 2 and 6, and west façade columns 1, 2, 3, 5, 7, and 8 were removed for off-site disposal after decontamination was complete.

2.4 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 cubic yard boxes) were staged for the collection of PCB wastes generated during the work activities in accordance with 40 CFR 761.65.
- PCB waste containers were properly labeled and marked in accordance with 40 CFR 761.40.
- 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 a containment 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, building materials coated or in direct contact with this caulking, spent sand blast media, and any materials otherwise managed as PCB waste ≥ 50 ppm were transported off-site for disposal as ≥ 50 ppm PCB wastes. Filled waste containers were transported off-site by ENPRO of Newburyport, Massachusetts. A total of 17,998 kilograms (19.8 tons) of PCB waste contained in 4 roll-off containers and 2 cubic yard box containers was removed for off-site disposal to the CWM Chemical Services, LLC hazardous waste disposal facility located in Model City, New York. The first load was shipped off-site on May 8, 2012 and the last load shipped off-site on August 21, 2012.
- Copies of waste manifests and certificates of disposal are included in Appendix C of this Report.

2.5 AIR MONITORING

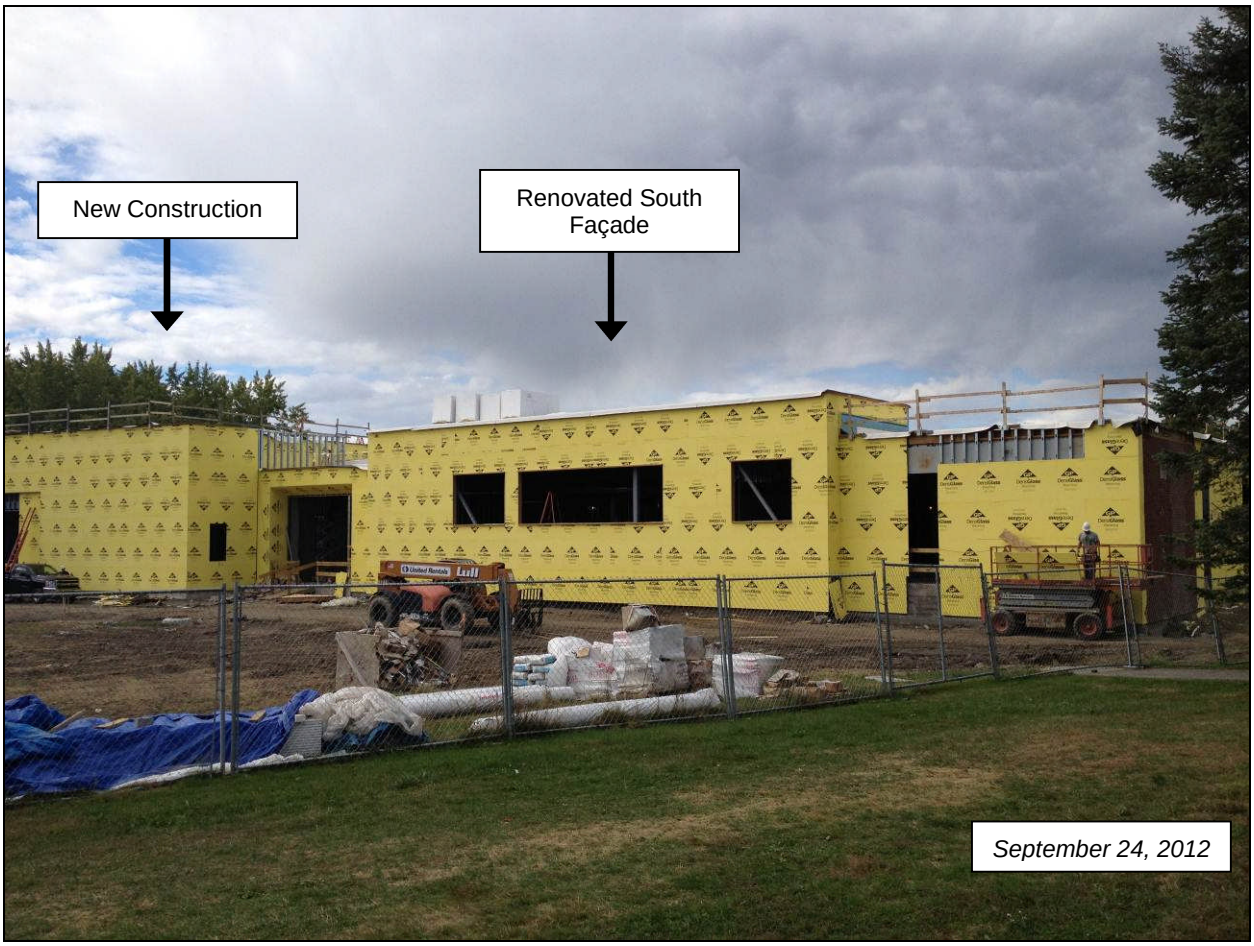
Air monitoring was conducted in accordance with the perimeter air monitoring plan included in Appendix B to the Plan Modification. Monitoring was conducted at an approximate frequency of one reading per hour of building material removal activities. At each hour, a reading was recorded from the work zone 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. Prior to any dust generating activities and periodically during the project, air monitoring readings were recorded to document airborne particulate matter concentrations at background locations elsewhere on-site. 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 exceedances of the total airborne particulate action limit (0.1 milligrams per cubic meter [mg/m^3] above background) or visible dust observed during any caulking or building material removal activities, as this work was performed within negative-air containments. In general, the total particulate levels measured at locations around the work perimeter during active building material removal were typically at background levels.

A table summarizing the air monitoring data is provided in Appendix D of this report.

2.6 SITE RESTORATION

After completing the 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. As of the date of this report, restoration activities are still ongoing as shown in the photo below.


New Construction
Renovated South Façade
September 24, 2012

3. REMEDY IMPLEMENTATION – SOIL

This section describes the PCB cleanup and disposal activities conducted with regards to site soils consistent with the conditions of the Approval.

3.1 REMEDY OVERVIEW

The remedial approach for PCB-impacted soils consisted of the removal and off-site disposal of soils containing PCBs above the 1 ppm unrestricted use cleanup level. This work was performed prior to allowing the general contractor to perform site regrading work in support of the new building wing construction.

Drawings depicting the sample locations described in this section are provided as Figure 3-1 (Pre-Excavation Data and Proposed Limits of Excavation) and Figure 3-2 (Post-Excavation Data and Final Limits of Excavation). Tables presenting the laboratory analytical data are included as Table 3-1 (Supplemental Soil Characterization Data) and Table 3-2 (Soil Verification Data Summary).

3.2 SUPPLEMENTAL CHARACTERIZATION SAMPLING

3.2.1 Additional Samples Requested by EPA

As requested by EPA during their review of the Plan Modification, additional surface soil samples (0-3 inches in depth) were collected to verify the lateral extent of the excavation areas proposed in the Plan Modification. Samples were collected along the eastern perimeter of the proposed excavation on the eastern side of the building at a distance of 7.5 feet from the building to characterize those soils midway between the proposed limit of excavation (at 5 feet from the building) and the existing row of characterization samples (at 10 feet from the building). In addition, one sample was collected at the southern extent of both the eastern and western excavation areas. Additional samples were not collected from the northern perimeter of the excavation areas since these areas terminated at concrete foundations to exterior staircases. Similarly, additional perimeter samples were not collected adjacent to the western perimeter of the western excavation area given the presence of an asphalt walkway with existing samples immediately adjacent to the asphalt. Each of the characterization sample locations are depicted on Figure 3-1.

The results of the supplemental soil characterization sampling requested by EPA confirmed the southern limits of excavation on both the east and west sides of the building; both samples were reported as non-detect for PCBs, and no changes were made to the proposed limits of excavation. The results of the additional samples collected along the eastern proposed limit of excavation on the east side of the building were reported with PCBs below the 1 ppm cleanup level in 6 out of 9 samples (results ranging from non-detect up to 0.682 ppm), and with PCBs above the 1 ppm cleanup level in the remaining 3 samples (results reported at 1.18, 1.54, and 2.50 ppm). Based on these results, the proposed limits of excavation were modified along the eastern elevation to remove the soils containing PCBs > 1 ppm as depicted on Figure 3-1. The results of these samples are presented on Table 3-1.

3.2.2 Additional Samples at Southern Corners

As described in Section 2.2.1 of this Report, two exterior building joints containing PCB ≥ 50 ppm caulking at the southeast and southwest corners of the building were encountered when remedy implementation was underway in February 2012. Because the vertical joints terminated at the unpaved ground surface adjacent to each building corner in a fashion similar to other locations along the east and west façades where PCBs had been characterized in adjacent soils at concentrations > 1 ppm, samples were collected at the base of the southeast and southwest building corners to determine whether PCBs were present. Samples were collected from unpaved surfaces on a 5-foot grid spacing at the locations depicted on Figure 3-1.

The results of the samples collected at the "worst-case" locations at the base of the caulked joints were reported with PCBs at 7.13 ppm (southwest corner) and at 17.6 ppm (southeast corner). The lateral extent of contamination was delineated by the next row of samples collected a distance of 5 feet from the worst-case locations, as samples collected at this distance were reported with PCBs ≤ 1 ppm. Based on these results, the proposed limits of excavation were modified at each of these corners to remove the soils containing PCBs > 1 ppm as depicted on Figure 3-1. These results are summarized on Table 3-1.

3.3 SOIL REMOVAL AND VERIFICATION

3.3.1 Site Preparation and Controls

Prior to initiating the soil excavation, site controls were implemented as described in Section 3.2.1 of the Plan Modification. These preparations included Dig Safe marking and notification, securing marked boundaries around the proposed excavation areas, and above-ground removal of excessive vegetation and small-diameter trees within excavation areas.

3.3.2 Methods

After confirming the horizontal limits of excavation via additional characterization sampling as described above in Section 3.2, Woodard & Curran marked the boundaries of the soil removal areas prior to beginning excavation. Soil excavation was performed using primarily a small hydraulic excavator or a backhoe loader. Soils were live-loaded from the excavation areas into lined roll-off containers staged adjacent to the excavation. Upon filling a container, the container was covered for temporary on-site staging until off-site shipment.

Upon achieving the proposed excavation depth in a given area, post-excavation samples were collected at the base of excavation in accordance with a modified 40 CFR 761.280 (Subpart O) sampling plan as described in the Plan Modification. Verification samples were collected on an approximate 10-foot grid along the west and east façades.

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 until results confirmed that residual PCB levels were ≤ 1 ppm.

Samples were transferred to Analytics Environmental Laboratory of Portsmouth, New Hampshire 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.

3.3.3 Excavation and Verification

The soil removal work was conducted by Environmental Management, Inc. of Brunswick, Maine under the direction of R.J. Enterprises. Woodard & Curran observed the excavation work activities for compliance with the EPA-approved Plan, collected ambient air monitoring readings, and collected post-removal verification soil samples from the base of the excavation areas.

Soil removal activities took place in two phases. The first began on April 2, 2012 and was completed on April 3, 2012 (west façade), while the second began on April 30, 2012 and was completed on May 11, 2012 (east façade).

The sequence of excavation work is presented below. A summary of the verification data is presented as Table 3-2, and the final excavation depths and verification samples are depicted graphically on Figure 3-2.

- Excavation work began at the northern end of the west facade on April 2, 2012, and proceeded southward along the west façade to the southwest corner. Excavation was completed on April 3, 2012. Soils along the west façade were grassed and bordered by the building to the east and a paved walkway to the west. After excavation, verification sample results confirmed that the remaining soils contained PCBs ≤ 1 ppm.

- Excavation work began along the east façade of the building on April 30, 2012 at the northern end of the east façade and proceeded southward along the east façade to the southeast corner. Initial excavation was completed on May 1, 2012. Soils along the east façade were primarily grassed and bordered by the building to the west and additional unpaved soils to the east (these soils fell beyond the horizontal extent of PCBs > 1 ppm as delineated during characterization sampling). After collecting verification samples and review of the data, additional soil removal was warranted at one location where the initial verification sample result was reported with PCBs > 1 ppm. An additional 1 foot of soil was removed (for a total 3 foot excavation depth at the southeast corner) on May 11, 2012, and subsequent re-sampling of this area confirmed that PCBs were ≤ 1 ppm after the additional removal.

The verification data included a total of 27 primary soil samples from the excavated areas (26 first round excavation samples, and 1 second round excavation sample). One round of additional soil removal was conducted at the southeast corner, representing approximately 5% of the total soil removal area.

The maximum depth of excavation at any location was 36 inches. The total area subject to removal and off-site disposal of PCB-impacted soils measured approximately 1,075 square feet (ft^2). Approximately 15% of the area (150 ft^2) was excavated to a depth of 12 inches bgs; approximately 80% of the area (875 ft^2) was excavated to a depth of 24 inches bgs; approximately 5% of the area (50 ft^2) was excavated to a depth of 36 inches bgs.

The in-place volume of soils excavated from the Site totaled approximately 75 cubic yards based on the excavation area (1,075 ft^2) and known excavation depths in each area as shown on Figure 3-2. This 75 cubic yard volume is slightly higher than the 65 cubic yard volume estimated in the Plan Modification due to

the inclusion of additional areas as described in Section 3.2. Given the density of soils and slight volumetric expansion expected upon removal from the ground, this value is consistent with the total weight of soils (139 tons) as reported by the disposal facility. Refer to Section 3.4 for waste disposal documentation.

3.4 WASTE STORAGE AND DISPOSAL

Soils and other PCB remediation wastes generated in association with soil removal activities (e.g., polyethylene sheeting, PPE, etc.) were placed in secure, lined, covered, and marked roll-off waste containers staged adjacent to the excavation area. The PCB wastes were managed in accordance with 40 CFR 761.65 and marked in accordance with 40 CFR 761.40. Open or active excavation areas were marked throughout the duration of the work activities, and the work site was enclosed by locked perimeter chain-link fencing during non-work hours.

Filled roll-off containers were transported off-site by ENPRO of Newburyport, Massachusetts. All soils were classified as non-hazardous waste (< 50 ppm PCBs) and were transported under Non Hazardous Waste Manifests to the Turnkey Recycling and Environmental Enterprises (TREE) non-hazardous waste disposal facility in Rochester, New Hampshire. The soil was sent off-site in 10 shipments sent between April 16, 2012 and May 29, 2012 with a total disposal weight of 139 tons of non-hazardous soils.

Pursuant to Recordkeeping and Reporting Condition 21 of the Approval, copies of all waste shipment records including the uniform hazardous waste manifests and certificates of disposal are provided in Appendix C of this Report.

3.5 AIR MONITORING

Air monitoring was conducted in accordance with the perimeter air monitoring plan included in Appendix B to the Plan Modification. Monitoring was conducted at an approximate frequency of one reading per hour of soil excavation. At each hour, a reading was recorded from the work zone perimeter. The location of the work zone perimeter and dust reading stations changed throughout the day as the excavation progressed. Readings were collected over 30-second intervals at each location using a Thermo MIE Personal Data RAM Model PDR-1000 monitor. Prior to any dust generating activities and periodically during the project, air monitoring readings were recorded to document airborne particulate matter concentrations at background locations elsewhere on-site.

There were no instances of visible dust generation from the soil removal area during any site activities, as excavated soils were damp during all excavation phases due to rain and/or snowmelt. There were no exceedances of the total airborne particulate action limit (0.1 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. A table summarizing the air monitoring data is provided in Appendix D of this report.

3.6 SITE RESTORATION

Following completion of the removal activities and verification that the cleanup levels had been met, the Site was regraded according to the architect's landscaping plans prepared for the overall site renovation project.

4. DATA QUALITY ASSESSMENT

This data quality and data usability assessment has been conducted to review the 145 primary samples collected in support of site characterization and verification activities since the 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. A copy of Data Check's data validation summaries are provided in Appendix E.

4.1 PRECISION

Field duplicate samples were collected at an approximate frequency of one duplicate sample per twenty primary samples during remediation activities. A total of five 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 no exceptions, and no qualifiers were applied to the data.

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. Only one sample result was qualified as estimated for column results outside of acceptance criteria as noted in the data validation summaries, and the qualifier applied to the data is included in the summary tables provided with this report.

4.2 ACCURACY

Accuracy of the analytical data was assessed by reviewing recoveries for MS / MSD, LCS / LCSD, and surrogates. After review of this information, two sample results were qualified as estimated (J or UJ) as a result of MS/MSD recoveries outside of acceptance criteria as noted in the data validation summaries. No qualifications were applied to the data as a result of LCS/LCSD percent recoveries. Surrogate recoveries met acceptance criteria for most samples; surrogate recoveries were not available for certain samples due to matrix interferences, but no qualifications were applied.

4.3 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. The percent solids reported for each sample indicated that the

samples were appropriately representative of a solid matrix. 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 five 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.

4.4 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.

4.5 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.

4.6 SENSITIVITY

Data sensitivity was evaluated by a review of each sample's reporting limit (RL). Some samples were analyzed at dilutions due to the 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 decontamination or 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.

5. 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 June 15, 2011 Approval. In summary:

- Removal of PCB ≥ 50 ppm caulking and certain building materials in former direct contact with the caulking was completed to an extent such that either:
    - The material was removed in its entirety (i.e., PCB ≥ 50 ppm caulking, east and west façade coated metal window frames, and coated metal roof penthouse panels); or,
    - Verification samples collected from materials beyond the applied cut lines demonstrated that the unrestricted use cleanup level had been met and materials could be segregated for disposal (i.e., concrete block walls, plaster ceilings, brick walls, and south façade metal window/door frames).
- Decontamination of granite and metal surfaces in former direct contact with PCB ≥ 50 ppm caulking was completed to an extent such that verification samples collected from the decontaminated surfaces demonstrated that the unrestricted use cleanup level had been met.
- Approximately 19.8 tons of bulk PCB waste contained in 4 roll-off containers and 2 cubic yard boxes were removed for off-site disposal and transported under hazardous waste manifest as ≥ 50 ppm PCB waste to the CWM Chemical Services hazardous waste disposal facility located in Model City, New York.
- Approximately 139 tons of PCB impacted soils, classified as non-hazardous waste (< 50 ppm PCBs), were excavated and transported under non-hazardous waste manifest to the Turnkey Recycling and Environmental Enterprises non-hazardous waste disposal facility in Rochester, New Hampshire.

The PCB remediation activities authorized under the Approval are considered to be complete as summarized in this report, and no further work is warranted to meet the conditions of the Approval.

Table 2-1
Verification of Removal Extent for PCB Waste Segregation
Former Stewart Commons Dining Hall - University of Maine, Orono

Media	Completion Report Reference	Sample Frequency	Façade	Sample Location	Sample Date	Sample ID	Reporting Limit	Total PCBs
Non-Porous Media - Surface Wipe Delineation Samples								
Metal	Section 2.2.3	1 per 100 lf (505 l.f. = 5 samples)	5 wipes	Southwest lobby	02/15/12	UMSC-VWM-159	0.5	2.4
				Southwest lobby	02/15/12	UMSC-VWM-160	0.5	ND
				South center lobby	02/07/12	UMSC-VWM-153	0.5	ND
				Southeast lobby	02/16/12	UMSC-VWM-163	0.5	1.7
				Southeast lobby	02/16/12	UMSC-VWM-164	0.5	ND
Porous Media - Bulk Delineation Samples								
Concrete	Section 2.2.4	1 per 16 lf of caulking (64 l.f. = 4 samples)	South *(Exterior Side of Windows)*	6" from west edge of southwest lobby windows	11/04/10	UMSC-CBC-027	0.033	0.735
				6" from east edge of southwest lobby windows	02/01/12	UMSC-VBC-123	0.033	0.432
				6" from west edge of southeast lobby windows	02/01/12	UMSC-VBC-124	0.033	0.401
				6" from east edge of southeast lobby windows	02/01/12	UMSC-VBC-125	0.033	0.307
Concrete	Section 2.2.4	1 per 20 lf of caulking (81 l.f. = 4 samples)	South *(Interior Side of Windows)*	24" from west edge of southwest lobby windows	02/09/11	UMSC-CBC-034	0.033	0.784
				24" from east edge of southwest lobby windows	02/09/11	UMSC-CBC-036	0.033	0.277
				24" from west edge of southeast lobby windows	02/09/11	UMSC-CBC-038	0.033	0.525
				24" from east edge of southeast lobby windows	02/09/11	UMSC-CBC-040	0.033	0.289
Concrete	Section 2.2.4	1 per 17 lf of caulking (34 l.f. = 2 samples)	South *(Inside Breezeway)*	West wall of breezeway, 6" inside northern door	11/04/10	UMSC-CBC-025	0.033	0.391
				East wall of breezeway, 6" inside southern door	02/01/12	UMSC-VBC-126	0.033	0.406
Plaster	Section 2.2.5	1 per entrance or 1 per 25 to 35 lf	South	Southwest lobby	02/16/12	UMSC-VBP-162	0.033	0.387
				South center lobby	02/01/12	UMSC-VBP-127	0.033	0.090
				Southeast lobby	02/16/12	UMSC-VBP-166	0.033	0.072

Table 2-1
Verification of Removal Extent for PCB Waste Segregation
Former Stewart Commons Dining Hall - University of Maine, Orono

Media	Completion Report Reference	Sample Frequency	Façade	Sample Location	Sample Date	Sample ID	Reporting Limit	Total PCBs
Porous Media - Bulk Delineation Samples (Continued)								
Brick	Section 2.2.6	1 per 15 lf of caulking (60 l.f. = 4 samples)	West	Metal wall to brick wall joint, south end.	11/04/10	UMSC-CBB-028	0.036	0.369
				Metal wall to brick wall joint, north end.	02/27/12	UMSC-VBB-175	0.033	0.125
			East	Metal wall to brick wall joint, north end.	11/04/10	UMSC-CBB-029	0.033	0.355
				Metal wall to brick wall joint, south end.	02/01/12	UMSC-VBB-122	0.033	0.451
Brick	Section 2.2.6	1 per 15 lf of caulking (42 l.f. = 3 samples)	East	Southeast corner column/brick joint	02/07/12	UMSC-VBB-155	0.033	0.570
			West	Southwest corner column/brick joint	02/07/12	UMSC-VBB-152	0.033	0.360
			Center	East column above south center entrance column/brick joint	02/07/12	UMSC-VBB-154	0.033	0.707

Notes:
1. Samples were extracted by EPA Method 3540C and analyzed by EPA Method 8082 by Analytics Environmental Laboratory of Portsmouth, NH.
2. ND = Non-detect; PCBs were not detected above the laboratory's minimum reporting limit, as indicated.
3. Bulk results are presented in units of milligram per kilogram (mg/kg).
4. No results were qualified as estimated or rejected based on data validation.

Table 2-2
Verification of Non-Porous Media Decontamination
Former Stewart Commons Dining Hall - University of Maine, Orono

Media	Completion Report Reference	Sample Frequency	Façade	Joint Type	Column Number[1]	Decon Method[2]	Sample Date	Sample ID	Reporting Limit	Total PCBs
South Façade Granite and Metal										
Granite	Section 2.3.1	2 total	South	Granite Panel / Metal Frame	N/A	a	02/09/12	UMSC-VWG-157	0.5	1.1
					N/A	a	02/09/12	UMSC-VWG-158	0.5	2.4
Metal	Section 2.3.1	2 total	South	Metal Column / Granite Panel	N/A	c	04/04/12	UMSC-VWM-221	0.5	0.8
					N/A	c	04/04/12	UMSC-VWM-222	0.5	ND
Granite	Section 2.3.1	1 total	South	Granite Curb / Metal Frame	N/A	Chipped Granite Edge	04/10/12	UMSC-VWG-223	0.5	ND
East and West Façade Granite Panels										
Granite	Section 2.3.2	1 per 25 lf of caulking *(Equivalent to 1 sample per 2 granite panels)*	West	Granite Panel / Metal Column	2	d	03/13/12	UMSC-VWG-180	0.5	7.8
					4	d	03/13/12	UMSC-VWG-181	0.5	2.6
					5	d	03/13/12	UMSC-VWG-182	0.5	ND
					8	d	03/13/12	UMSC-VWG-183	2.5	**17**
						b	05/08/12	UMSC-VWG-269	0.5	0.8
					9	d	03/13/12	UMSC-VWG-184	2.5	**21**
						b	05/08/12	UMSC-VWG-270	0.5	ND
			East	Granite Panel / Metal Column	12	e	04/02/12	UMSC-VWG-201	0.5	6.0
					15	e	04/02/12	UMSC-VWG-202	0.5	0.6
					17	e	04/02/12	UMSC-VWG-203	0.5	8.6
					19	e	04/02/12	UMSC-VWG-204	0.5	4.2

Table 2-2
Verification of Non-Porous Media Decontamination
Former Stewart Commons Dining Hall - University of Maine, Orono

Media	Completion Report Reference	Sample Frequency	Façade	Joint Type	Column Number[1]	Decon Method[2]	Sample Date	Sample ID	Reporting Limit	Total PCBs
West Façade Metal Columns										
Metal	Section 2.3.3	1 per 15 lf of caulking *(Equivalent to 1 sample per vertical joint)* [1]	West	Metal Column / Brick Wall	1	a	02/07/12	UMSC-VWM-138	125	**1,310**
						d	03/19/12	UMSC-VWM-185	5	**59**
						c	04/11/12	UMSC-VWM-228	0.5	4.1
				Metal Column / Metal Window Frame	1	a	02/07/12	UMSC-VWM-137	100	**1,900**
						c	03/01/12	UMSC-VWM-171	0.5	ND
					2	a	02/07/12	UMSC-VWM-136	100	**1,650**
						c	03/19/12	UMSC-VWM-186	1	**14**
						c	04/11/12	UMSC-VWM-224	0.5	6.3
					3	a	02/07/12	UMSC-VWM-135	200	**3,260**
						b	02/22/12	UMSC-VWM-168	25	**170**
						c	03/19/12	UMSC-VWM-188	0.5	9.3
					4	a	02/07/12	UMSC-VWM-134	100	**1,750**
						b	02/22/12	UMSC-VWM-169	2.5	**23**
						c	03/19/12	UMSC-VWM-190	2.5	**22**
						c	04/11/12	UMSC-VWM-225	0.5	6.4
					5	a	02/07/12	UMSC-VWM-133	25	**315**
						c	03/19/12	UMSC-VWM-192	0.5	ND
					6	a	02/07/12	UMSC-VWM-132	2.5	**28**
						c	03/19/12	UMSC-VWM-194	2.5	**33**
						c	04/11/12	UMSC-VWM-226	0.5	ND
					7	a	02/07/12	UMSC-VWM-131	125	**1,320**
						c	03/19/12	UMSC-VWM-196	0.5	ND
					8	a	02/07/12	UMSC-VWM-130	2.5	**28**
						c	03/19/12	UMSC-VWM-198	0.5	ND
					9	a	02/07/12	UMSC-VWM-129	2.5	**23**
						c	03/19/12	UMSC-VWM-199	0.5	0.7
				Metal Column / Brick Wall	10	a	02/07/12	UMSC-VWM-128	63	**1,010**
						c	03/19/12	UMSC-VWM-200	2.5	**32**
						c	04/11/12	UMSC-VWM-227	0.5	ND
			Southwest Corner	Metal Column / Brick Wall	11	e	04/03/12	UMSC-VWM-217	0.5	0.9

Table 2-2
Verification of Non-Porous Media Decontamination
Former Stewart Commons Dining Hall - University of Maine, Orono

Media	Completion Report Reference	Sample Frequency	Façade	Joint Type	Column Number[1]	Decon Method[2]	Sample Date	Sample ID	Reporting Limit	Total PCBs
West Façade Metal Columns (Continued)										
Metal	Section 2.3.3	1 per 15 lf of caulking *(Equivalent to 1 sample per vertical joint)* [1]	West	Metal Column / Granite Panel	2	d	03/19/12	UMSC-VWM-187	0.5	1.8
					3	d	03/19/12	UMSC-VWM-189	0.5	1.7
					4	d	03/19/12	UMSC-VWM-191	0.5	1.8
					5	d	03/19/12	UMSC-VWM-193	0.5	1.5
					6	d	03/19/12	UMSC-VWM-195	0.5	3.1
					7	d	03/19/12	UMSC-VWM-197	0.5	3.9
					8	d	03/01/12	UMSC-VWM-179	0.5	ND
					9	d	03/01/12	UMSC-VWM-178	0.5	2.1
					10	d	03/01/12	UMSC-VWM-177	1.0	10
East Façade Metal Columns										
Metal	Section 2.3.3	1 per 15 lf of caulking *(Equivalent to 1 sample per vertical joint)* [1]	East	Metal Column / Brick Wall	1	e	04/12/12	UMSC-VWM-229	0.5	3.2
				Metal Column / Metal Window Frame	2	e	04/12/12	UMSC-VWM-230	0.5	ND
					3	e	04/12/12	UMSC-VWM-231	0.5	ND
					4	e	04/12/12	UMSC-VWM-233	0.5	ND
					5	e	04/12/12	UMSC-VWM-234	0.5	ND
					6	e	04/12/12	UMSC-VWM-236	0.5	ND
					7	e	04/12/12	UMSC-VWM-237	0.5	ND
					8	e	04/12/12	UMSC-VWM-238	0.5	ND
					9	e	04/12/12	UMSC-VWM-239	0.5	0.7
				Metal Column / Brick Wall	10	e	04/12/12	UMSC-VWM-241	0.5	6.4
			Southeast Corner	Metal Column / Brick Wall	11	e	04/03/12	UMSC-VWM-219	0.5	ND
			East	Metal Column / Granite Panel	1	e	04/12/12	UMSC-VWM-242	0.5	ND
					2	e	04/12/12	UMSC-VWM-243	0.5	ND
					3	e	04/12/12	UMSC-VWM-232	0.5	0.5
					4	e	04/12/12	UMSC-VWM-244	0.5	1.7
					5	e	04/12/12	UMSC-VWM-245	0.5	ND
					6	e	04/12/12	UMSC-VWM-235	0.5	ND
					7	e	04/12/12	UMSC-VWM-246	0.5	1.0
					8	e	04/12/12	UMSC-VWM-247	0.5	ND
					9	e	04/12/12	UMSC-VWM-240	0.5	0.6
					10	e	04/12/12	UMSC-VWM-248	0.5	1.6

Table 2-2
Verification of Non-Porous Media Decontamination
Former Stewart Commons Dining Hall - University of Maine, Orono

Media	Completion Report Reference	Sample Frequency	Façade	Joint Type	Column Number[1]	Decon Method[2]	Sample Date	Sample ID	Reporting Limit	Total PCBs

Notes:

1. East and west façade metal columns were identified by numbers 1 through 10 from north to south, each column having two 15-foot vertical caulked joints. Column 11 represents the southeast and southwest corner columns, respectively, where column 11 has only one 15-foot vertical caulked joint.
2. Non-porous surface decontamination was performed by the following methods:
   (a) "a" indicates a surface was decontaminated with a single application of CAPSUR®.
   (b) "b" indicates a surface was decontaminated by the triple wash/rinse/vacuum method of CAPSUR®.
   (c) "c" indicates a surface was decontaminated by applying a paint stripper, mastic remover, and a triple wash/rinse/vacuum of CAPSUR®.
   (d) "d" indicates a surface was decontaminated by sandblasting and then wiped down with a damp rag.
   (e) "e" indicates a surface was decontaminated by sandblasting followed by a triple-wash/rinse/vacuum of CAPSUR®.
3. Samples were extracted by EPA Method 3540C and analyzed by EPA Method 8082 by Analytics Environmental Laboratory of Portsmouth, NH.
4. ND = Non-detect; PCBs were not detected above the laboratory's minimum reporting limit, as indicated.
5. Surface wipe results are presented in units of micrograms per 100 square centimeters ($\mu g/100cm^2$).
6. Gray-shaded cells indicate sample locations that were subsequently decontaminated further and then resampled.
7. No results were qualified as estimated or rejected based on data validation.
8. East façade columns 1, 3, 4, 5, 7, 8, 9, 10, and 11, and west façade columns 4, 6, 9, 10, and 11 remained in place as structural support in the renovated building after decontamination was complete. East façade columns 2 and 6, and west façade columns 1, 2, 3, 5, 7, and 8 were removed for off-site disposal after decontamination was complete.

Table 3-1
Supplemental Soil Characterization Data
Former Stewart Commons Dining Hall - University of Maine, Orono

Media	Façade	Sample Depth	Sample Date	Sample ID	Reporting Limit	Total PCBs
Additional Samples Requested by EPA [1]						
Soil	East	0 - 3	02/07/12	UMSC-VBS-140	0.043	0.457
Soil	East	0 - 3	02/07/12	UMSC-VBS-141	0.092	ND
Soil	East	0 - 3	02/07/12	UMSC-VBS-142	0.099	**2.50**
Soil	East	0 - 3	02/07/12	UMSC-VBS-143	0.106	ND
Soil	East	0 - 3	02/07/12	UMSC-VBS-144	0.109	**1.54**
Soil	East	0 - 3	02/07/12	UMSC-VBS-145	0.102	0.213
Soil	East	0 - 3	02/07/12	UMSC-VBS-146	0.125	0.682
Soil	East	0 - 3	02/07/12	UMSC-VBS-147	0.102	**1.18**
Soil	East	0 - 3	02/07/12	UMSC-VBS-148	0.125	0.340
Soil	East	0 - 3	02/07/12	UMSC-VBS-149	0.089	ND
Soil	West	0 - 3	02/09/12	UMSC-VBS-156	0.046	ND
Additional Samples Collected Adjacent to Southern Corner Columns [1]						
Soil	West	0 - 3	02/16/12	UMSC-VBS-165	0.462	**7.13**
Soil	East	0 - 3	02/16/12	UMSC-VBS-167	1.06	**17.6**
Soil	West	0 - 3	03/01/12	UMSC-VBS-172	0.043	ND
Soil	East	0 - 3	03/01/12	UMSC-VBS-173	0.050	ND
Soil	East	0 - 3	03/01/12	UMSC-VBS-174	0.059	0.482
Soil	East	0 - 3	03/01/12	UMSC-VBS-175	0.109	1.09

Notes:

1. Additional samples requested by EPA were requested in support of the September 9, 2011 Modification Request. Woodard & Curran confirmed via email on February 1, 2012 that these samples would be collected. Additional samples collected adjacent to additional source materials were collected at the base of two metal columns with caulked joints terminating at ground surface.
2. Samples were extracted by EPA Method 3540C and analyzed by EPA Method 8082 by Analytics Environmental Laboratory of Portsmouth, NH.
3. Sample depths are measured in inches below ground surface.
4. Bulk results are presented in units of milligram per kilogram (mg/kg).
5. ND = Non-detect; PCBs not detected above the laboratory reporting limit, as indicated.
6. No results were qualified as estimated or rejected based on data validation.
7. Gray-shaded cells indicate soils that were subsequently included within the horizontal limits of excavation; non-shaded cells represent points used to define the horizontal limits of excavation.

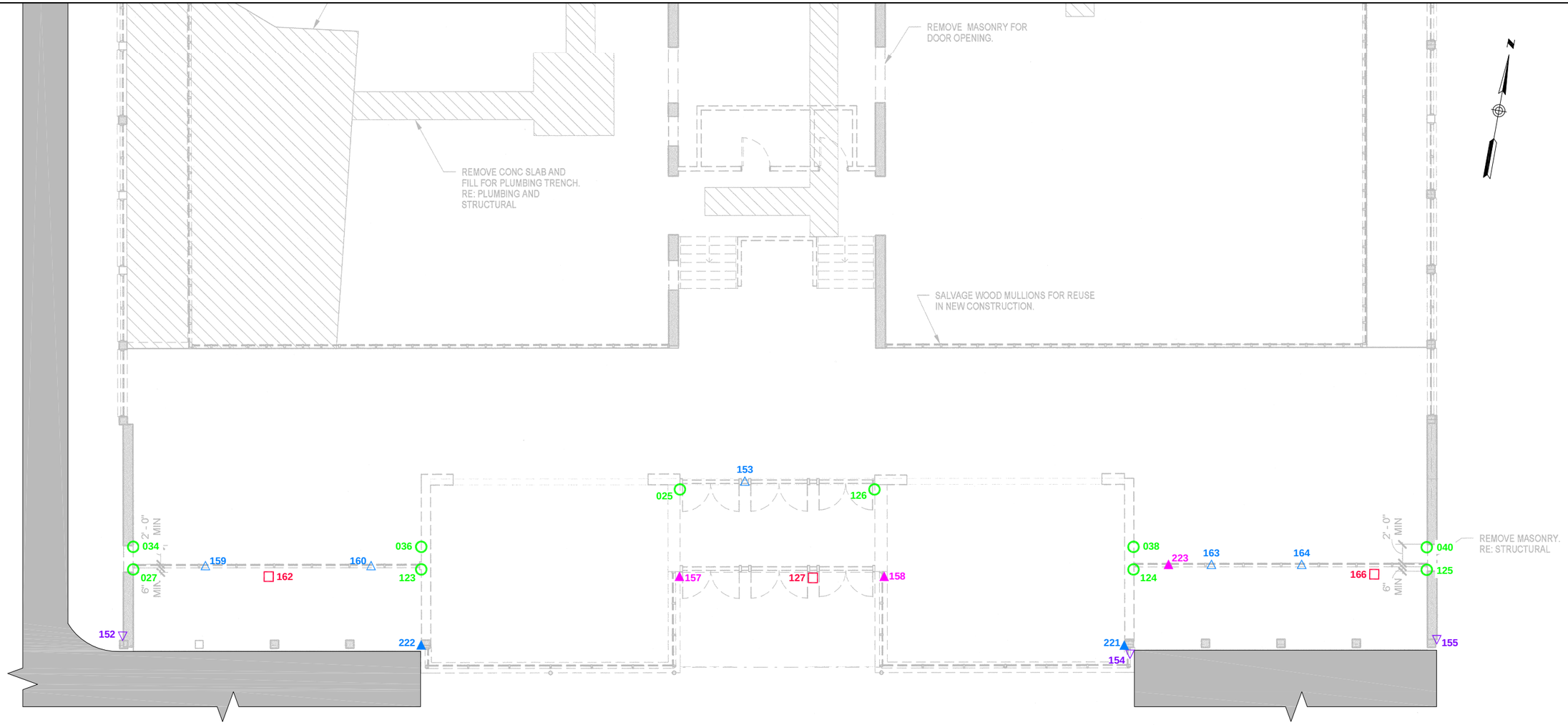
Table 3-2
Soil Verification Data
Former Stewart Commons Dining Hall - University of Maine, Orono

Media	Façade	Sample Depth	Sample Date	Sample ID	Reporting Limit	Total PCBs	Qualifier
Soil	West	24 - 27	04/02/12	UMSC-VBS-207	0.036	ND	
Soil	West	24 - 27	04/02/12	UMSC-VBS-208	0.033	0.183	
Soil	West	24 - 27	04/02/12	UMSC-VBS-209	0.033	ND	
Soil	West	24 - 27	04/02/12	UMSC-VBS-210	0.04	0.671	
Soil	West	24 - 27	04/02/12	UMSC-VBS-211	0.036	0.193	J
Soil	West	24 - 27	04/02/12	UMSC-VBS-212	0.036	ND	
Soil	West	24 - 27	04/03/12	UMSC-VBS-213	0.033	ND	
Soil	West	24 - 27	04/03/12	UMSC-VBS-214	0.033	ND	
Soil	West	24 - 27	04/03/12	UMSC-VBS-215	0.033	0.039	
Soil	SW Corner	24 - 27	04/03/12	UMSC-VBS-216	0.036	0.054	
Soil	East	12 - 15	04/30/12	UMSC-VBS-253	0.036	ND	
Soil	East	12 - 15	04/30/12	UMSC-VBS-254	0.036	ND	
Soil	East	12 - 15	04/30/12	UMSC-VBS-255	0.040	ND	
Soil	East	12 - 15	04/30/12	UMSC-VBS-256	0.036	ND	
Soil	East	12 - 15	05/01/12	UMSC-VBS-257	0.040	ND	
Soil	East	12 - 15	05/01/12	UMSC-VBS-258	0.040	ND	
Soil	East	24 - 27	05/01/12	UMSC-VBS-259	0.033	ND	
Soil	East	24 - 27	05/01/12	UMSC-VBS-260	0.033	0.095	
Soil	East	24 - 27	05/01/12	UMSC-VBS-261	0.033	0.864	
Soil	East	24 - 27	05/01/12	UMSC-VBS-262	0.033	0.356	
Soil	East	24 - 27	05/01/12	UMSC-VBS-263	0.033	ND	
Soil	East	24 - 27	05/01/12	UMSC-VBS-264	0.036	0.049	
Soil	East	24 - 27	05/01/12	UMSC-VBS-265	0.033	ND	
Soil	East	24 - 27	05/01/12	UMSC-VBS-266	0.033	ND	
Soil	East	24 - 27	05/01/12	UMSC-VBS-267	0.033	ND	
Soil	SE Corner	24 - 27	05/01/12	UMSC-VBS-268	0.396	**7.83**	
Soil	SE Corner	36 - 39	05/11/12	UMSC-VBS-271	0.036	ND	UJ

Notes:

1. Samples extracted by EPA Method 3540C (Soxhlet) and analyzed for PCBs by EPA Method 8082.
2. Sample depths are measured in inches below ground surface.
3. Bulk results are presented in units of milligram per kilogram (mg/kg).
4. ND = Non-detect; PCBs not detected above the laboratory's minimum reporting limit, as indicated.
5. J or UJ = Result is qualified as estimated based on data validation.
6. Gray-shaded cells indicate locations that were subsequently re-excavated and then re-sampled.

22x34 SHEET
1:1



LEGEND

- 034 ○ CONCRETE WALL BULK SAMPLE
- 152 ▽ BRICK WALL BULK SAMPLE
- 162 □ PLASTER CEILING BULK SAMPLE
- 159 △ METAL SURFACE WIPE SAMPLE
- 222 ▲ METAL SURFACE WIPE SAMPLE (POST-DECONTAMINATION)
- 158 ▲ GRANITE SURFACE WIPE SAMPLE (POST-DECONTAMINATION)
- ASPHALT PAVEMENT

NOTES:

1. FIGURE ADAPTED FROM AD-101 "FIRST FLOOR DEMOLITION PLAN" PREPARED BY BRUNER/COTT & ASSOCIATES ON JULY 7, 2011.

DEMOLITION KEY

- EXISTING ITEMS TO BE REMOVED OR DEMOLISHED
- EXISTING WALLS TO REMAIN
- EXISTING FLOOR / ROOF TO BE REMOVED

0 6 12
APPROX. SCALE IN FEET

WOODARD & CURRAN
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ANDOVER, MASSACHUSETTS 01810
866.702.6371 | www.woodardcurran.com
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REV	DESCRIPTION	DATE

DESIGNED BY: CHECKED BY: ALW
DRAWN BY: EVR Figure 2-1.dwg

SOUTH FACADE PLAN VIEW AND SAMPLE LOCATIONS

FORMER STEWART COMMONS DINING HALL
UNIVERSITY OF MAINE
ORONO, MAINE

PCB COMPLETION REPORT

JOB NO.: 222822
DATE: SEPTEMBER 2012
SCALE: AS NOTED
SHEET: OF

FIGURE 2-1

\\Andover\projects\222822 University of Maine - PCBs in Materials\wip\Drawings\Completion Report\Figure 2-1.dwg, Oct 04, 2012 - 10:44am

22x34 SHEET
1:1

LEGEND

175 ▽ BRICK WALL BULK SAMPLE

228 ▲ METAL COLUMN POST-DECONTAMINATION WIPE SAMPLE

180 ▲ GRANITE PANEL POST-DECONTAMINATION WIPE SAMPLE

(1) COLUMN IDENTIFIER

NOTES:

1. ONLY FINAL SAMPLE LOCATIONS ARE SHOWN (I.E., AFTER CLEANUP LEVELS WERE ACHIEVED). PREVIOUS SAMPLES NOT MEETING CLEANUP LEVELS WERE COLLECTED FROM LOCATIONS ADJACENT TO THE FINAL SAMPLES DEPICTED HERE.

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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY: EVR
CHECKED BY: ALW
Figure 2-2.dwg

EAST AND WEST FACADE ELEVATIONS AND SAMPLE LOCATIONS

FORMER STEWART COMMONS DINING HALL
UNIVERSITY OF MAINE
ORONO, MAINE

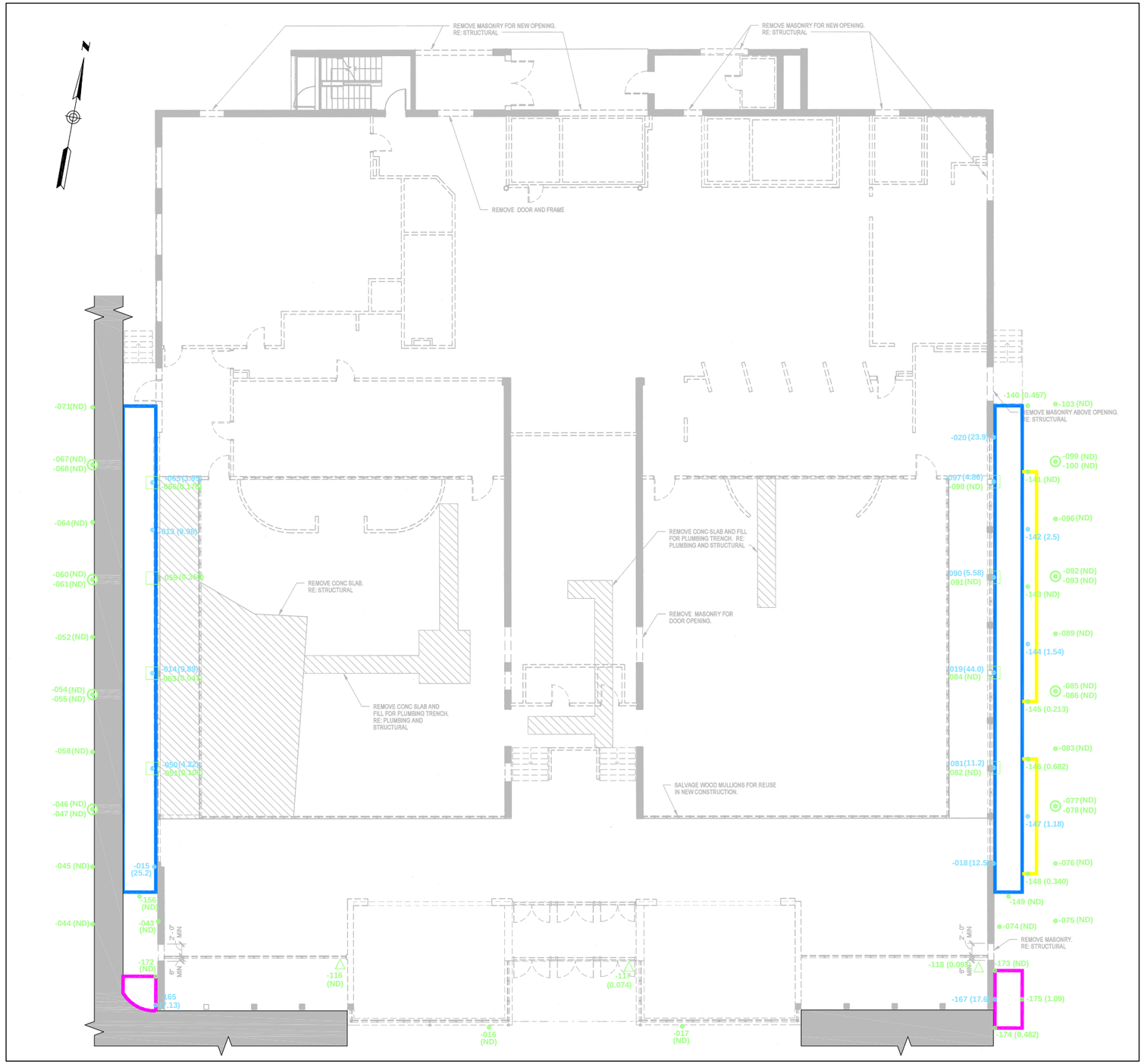
PCB COMPLETION REPORT

JOB NO.: 222822
DATE: SEPTEMBER 2012
SCALE: NOT TO SCALE
SHEET: OF

FIGURE 2-2

\\ANDOVER\Projects\222822 University of Maine – PCBs in Materials\wip\Drawings\Completion Report\Figure 2-2.dwg, Sep 18, 2012 – 9:58am

22x34 SHEET
1:1



LEGEND

- BRICK SAMPLE 0 - 0.5" BGS
- SOIL SAMPLE 0 - 3" BGS (PCBs ≤ 1 ppm)
- SOIL SAMPLE 0 - 3" BGS (PCBs > 1 and < 50 ppm)
- SOIL SAMPLE 12"- 15" BGS
- SOIL SAMPLE 24"- 27" BGS
- (0.213) PCB CONCENTRATION IN ppm
- -020 SAMPLE NUMBER
- SOIL REMOVAL AREA (24-INCH DEPTH)
- ADDITIONAL SOIL REMOVAL AREA (12-INCH DEPTH)
- ADDITIONAL SOIL REMOVAL AREA (24-INCH DEPTH)
- ASPHALT PAVEMENT

NOTES:

1. FIGURE ADAPTED FROM AD-101 "FIRST FLOOR DEMOLITION PLAN" PREPARED BY BRUNER/COTT & ASSOCIATES ON JULY 7, 2011.
2. PCB CONCENTRATIONS REPORTED AS NON-DETECT (ND) INDICATE THAT PCBs WERE NOT DETECTED ABOVE LABORATORY MINIMUM REPORTING LIMITS, WHICH RANGE FROM 0.033 TO 0.050 ppm FOR THESE SAMPLES.

DEMOLITION KEY

- EXISTING ITEMS TO BE REMOVED OR DEMOLISHED
- EXISTING WALLS TO REMAIN
- EXISTING FLOOR / ROOF TO BE REMOVED

0 10 20
APPROX. SCALE IN FEET

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REV	DESCRIPTION	DATE

DESIGNED BY:
DRAWN BY: EVR
CHECKED BY: ALW
Figure 3-1.dwg

PRE-EXCAVATION DATA AND PROPOSED LIMITS OF EXCAVATION

FORMER STEWART COMMONS DINING HALL
UNIVERSITY OF MAINE
ORONO, MAINE

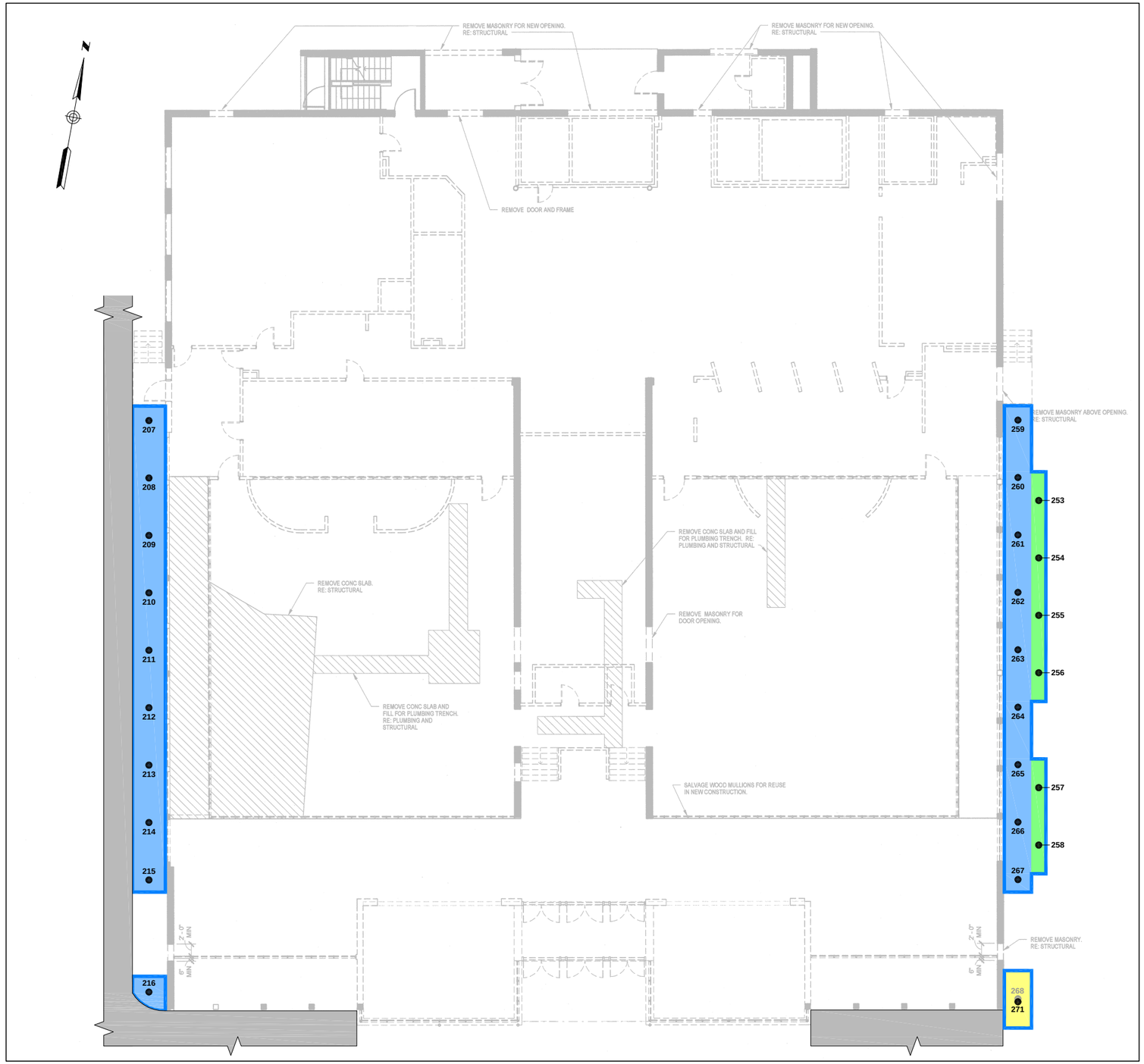
PCB COMPLETION REPORT

JOB NO.: 222822
DATE: SEPTEMBER 2012
SCALE: AS NOTED
SHEET: OF

FIGURE 3-1

\\Andover\projects\222822 University of Maine - PCBs in Materials\wip\Drawings\Completion Report\Figure 3-1.dwg, Oct 04, 2012 - 10:38am

22x34 SHEET
1:1



LEGEND

- VERIFICATION SAMPLE LOCATION
- VERIFICATION SAMPLE LOCATION (SUBSEQUENTLY RE MOVED)
- -207 SAMPLE NUMBER
- SOIL REMOVAL AREA
- 12" SOIL REMOVAL DEPTH
- 24" SOIL REMOVAL DEPTH
- 36" SOIL REMOVAL DEPTH
- ASPHALT PAVEMENT

NOTES:

1. FIGURE ADAPTED FROM AD-101 "FIRST FLOOR DEMOLITION PLAN" PREPARED BY BRUNER/COTT & ASSOCIATES ON JULY 7, 2011.

DEMOLITION KEY

- EXISTING ITEMS TO BE REMOVED OR DEMOLISHED
- EXISTING WALLS TO REMAIN
- EXISTING FLOOR / ROOF TO BE REMOVED

0 10 20
APPROX. SCALE IN FEET

35 NEW ENGLAND BUSINESS CENTER
ANDOVER, MASSACHUSETTS 01810
866.702.6371 | www.woodardcurran.com

COMMITMENT & INTEGRITY DRIVE RESULTS

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Figure 3-2.dwg

POST–EXCAVATION DATA AND FINAL LIMITS OF EXCAVATION

FORMR STEWAR COMMONS
DINING HALL
UNIVERSITY OF MAINE
ORONO, MAINE

PCB COMPLETION REPORT

JOB NO.: 222822
DATE: SEPTEMBER 2012
SCALE: AS NOTED
SHEET: OF

FIGURE 3-2

\\Andover\projects\222822 University of Maine - PCBs in Materials\wip\Drawings\Completion Report\Figure 3-2.dwg, Oct 04, 2012 - 10:39am

APPENDIX A: EPA APPROVAL (JUNE 15, 2011)

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

RECEIVED
JUNE 17, 2011

CERTIFIED MAIL - RETURN RECEIPT REQUESTED

JUN 15 2011

Ms. Carolyn McDonough
Associate Director of Facilities for Planning, Design, & Construction
University of Maine
Facilities Management
5765 Service Building
Orono, Maine 04469-5765

Re: PCB Cleanup and Disposal Approval under 40 CFR §§ 761.61(a) and (c) and § 761.79(h)
Former Stewart Commons Dining Hall
Orono, Maine

Dear Ms. McDonough:

This is in response to the University of Maine (UMaine) Notification[1] for approval of the proposed plan to address PCB contamination at the Former Stewart Commons Dining Hall located at the University of Maine, Orono, Maine (the Site). The Site contains PCB-contaminated materials that exceed the allowable PCB levels under 40 CFR § 761.20(a), § 761.61, and § 761.62. Specifically, PCBs have been found in caulk and in the adjacent building substrates (e.g., brick and concrete).

UMaine has requested an approval under 40 CFR §§ 761.61 (a) and (c) that includes the following activities:

- Remove and dispose of PCB caulk with greater than or equal to ($\geq$ 50 ppm in a TSCA approved or hazardous waste landfill
- Remove and dispose of *non-porous surfaces*, including metal window and door frames and metal panels, in direct contact with PCB caulk as a $\geq$50 ppm waste in a TSCA approved or hazardous waste landfill

[1] The notification was prepared by Woodard & Curran on behalf of the University of Maine, Orono to satisfy the notification requirement under 40 CFR § 761.61(a)(3) and (c). Information was submitted dated March 18, 2011 (PCB Remediation Plan) and May 26, 2011 (Response to Comments). These submittals shall be referred to as the "Notification".

- Remove and dispose of *porous surfaces*, including brick, concrete block and concrete plaster ceiling panels, in direct contact with PCB caulk as ≥50 ppm PCB waste as follows:
  - Interior concrete block walls within 24 inches of caulked joints at the southeast and southwest entries and inside the inner door of the south center entry
  - Interior concrete block walls and concrete plaster ceiling panels within 6 inches of caulked joints at the south center breezeway
  - Exterior concrete block walls within 6 inches of caulked joint at the southeast and southwest entries
  - Exterior brick (first course or column from the caulk joint) adjacent to the north and south metal panel bordering the granite panel section on the east and west faces of the building
- Decontaminate granite and metal columns to ≤10 μg/100 cm^2

UMaine has determined that caulk which has PCB concentrations at less than (<) 50 ppm, meets the criteria for an *Excluded PCB Product* under § 761.3. Under the PCB regulations, *Excluded PCB Products* are authorized for use and thus there is no requirement for removal of the caulk or decontamination of surfaces that are in contact with the < 50 ppm caulk.

With the exception of the proposed verification sampling frequency for *porous* and *non-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*.

UMaine has proposed a deviation from the verification sampling frequency specified under § 761.61(a)(6). Based on the results of the PCB characterization sampling and the proposed cleanup and disposal approach, EPA has determined that the sampling plan and verification sampling frequency for the *porous* and *non-porous surfaces* are adequate to confirm that cleanup standards have been met and that the alternative sampling will not create an unreasonable risk to public health or the environment. EPA may approve the alternative verification sampling under § 761.61(c).

UMaine may proceed with its project 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.

This Approval does not provide for cleanup and disposal of PCB-contaminated soils since additional sampling is necessary to define the nature and extent of the contamination. Upon completion of the investigation of soils at the Site, UMaine may request a modification to this Approval to incorporate cleanup of PCB-contaminated soils or UMaine may submit a separate cleanup and disposal notification under 40 CFR § 761.61 (see Attachment 1, Condition 1).

Questions and correspondence regarding this Approval should be directed to:

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

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 Jeffrey Hamel, Woodard & Curran
Ed Vigneault, MEDEP
File

Attachment 1 – PCB Approval Conditions
Attachment 2 – *Standard Operating Procedure For Sampling Porous Surfaces For Polychlorinated Biphenyls (PCBs), Rev. 4, May 5, 2011*

ATTACHMENT 1: PCB CLEANUP AND DISPOSAL APPROVAL CONDITIONS
FORMER STEWART COMMONS DINING HALL (the Site)
UNIVERSITY OF MAINE
ORONO, MAINE

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.

    a. This Approval does not address the cleanup of PCB-contaminated soils as the nature and extent of the contamination has not been defined.

    b. Upon completion of the investigation, the University of Maine (UMaine) may request a modification to this Approval to incorporate cleanup of the soils under this Approval (see Condition 16) or UMaine may submit a separate cleanup plan in accordance with 40 CFR § 761.61.

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

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

7. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by UMaine are authorized to conduct the activities set forth in the Notification. UMaine 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 UMaine from compliance with any applicable requirements of federal, state or local law; or 3) release UMaine 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 UMaine of its acceptance of the conditions of this Approval within 10 business days of receipt.

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

11. UMaine shall submit the following information for EPA review and/or approval:

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

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

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

CLEANUP AND DISPOSAL CONDITIONS

12. 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.

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

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

    b. The cleanup standard for *porous surfaces* (e.g., concrete, brick, and plaster panels) shall be less than or equal to ($\leq$ 1 part per million (ppm).

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

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

        iii) In the event **any** verification sample exceeds the PCB cleanup standard, UMaine shall contact EPA for a determination on the appropriate verification sampling frequency for the remaining *porous surfaces*.

    c. The decontamination standard for *non-porous surfaces* (e.g., metal frames and columns, and granite) shall be $\leq$ 10 μg/100 cm^2 PCBs.

        i) All post-decontamination verification sampling of *non-porous surfaces* shall be performed on a surface area basis by the standard wipe test as specified in 40 CFR § 761.123 (i.e., μg/100 cm^2) and at the frequency specified in the Notification.

        ii) For decontaminated *non-porous surfaces* that have PCB concentrations exceeding the decontamination standard, UMaine may conduct additional decontamination to achieve the required decontamination standard or must store and dispose of these wastes as TSCA-regulated waste in accordance with 40 CFR Part 761.

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

iv) In the event **any** verification sample exceeds the PCB cleanup standard, UMaine shall contact EPA for a determination on the appropriate verification sampling frequency for the remaining *non-porous surfaces*.

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

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

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

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

INSPECTION, MODIFICATION AND REVOCATION CONDITIONS

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

16. 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).

17. 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.

18. 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.

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

RECORDKEEPING AND REPORTING CONDITIONS

20. UMaine shall prepare and maintain all records and documents required by 40 CFR Part 761, including but not limited to the records required under Subparts J and K. A written record of the cleanup and disposal and the analytical sampling shall be established and maintained by UMaine 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.

21. UMaine shall submit a final report to the EPA within 60 days of completion of the activities authorized under this Approval. At a minimum, this final report shall include: a short narrative of the project activities; characterization and confirmation sampling analytical results; copies of the accompanying analytical chains of custody; field and laboratory quality control/quality assurance checks; an estimate of the quantity of PCB waste disposed of and the size of the PCB cleanup area(s); copies of manifests and bills of lading; and copies of certificates of disposal or similar certifications issued by the disposer.

22. 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

23. 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

Attachment 2.

STANDARD OPERATING PROCEDURE FOR SAMPLING POROUS SURFACES FOR POLYCHLORINATED BIPHENYLS (PCBs)

The Office of Environmental Measurement and Evaluation
EPA New England – Region 1
11 Technology Dr.
North Chelmsford, MA 01863

Prepared by: Dan Granz, Environmental Engineer — Date: 5/5/11

Reviewed by: Kim Tisa, TSCA PCB Coordinator — Date: 5/5/11

Reviewed by: Jerry Keefe – EIA Team Leader — Date: 05/23/11

Approved by: Dan Boudreau, EIA Chemistry Team Leader — Date: 5/23/11

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Revision Page

Date	Rev#	Summary of Changes	Sections
12/97	1	Initial Approval, draft	
3/20/08	2	Major update, only for PCBs, added TSCA sampling	All sections
7/17/08	3	Disposal of dust filter and decon of vac hose	11.0 and 14.0
5/04/11	4	Vacuum Trap Design and Clean-out	9.4

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14.0 Waste Management and Pollution Prevention 12

15.0 References 12

Attachments:

Example of Custody Seal and Sample Label
Example of Chain of Custody Form

1.0 Scope and Application

1.1 This Standard Operating Procedure (SOP) is suitable for collection of a porous matrix sample for analysis of Polychlorinated Biphenyls (PCBs).

1.2 This SOP describes sampling techniques for both hard and soft porous surfaces.

1.2.1 Hard surfaces, and most soft surfaces, can be sampled using an impact hammer drill to generate a uniform, finely ground, powder to be extracted and analyzed for PCBs. This procedure is primarily geared at providing enough sample quantity for two analyses. Hard porous surfaces include concrete, brick, asphalt, cement, sandstone, limestone, unglazed ceramics, and other possible PCB suspected material. This procedure may also be used on other softer porous surfaces, such as wood.

1.2.2 Soft surfaces can be sampled using a chisel or sharp knife to generate a representative sample to be extracted and analyzed for PCBs. Soft porous surfaces include wood, wall plasterboard, low density plastics, rubber, caulking, and other PCB suspected material.

1.3 This SOP provides for collection of surface samples (0 – 0.5 inches) and delineation of PCB contamination throughout the core of the porous surface. The procedure can be used to sample the porous surface at distinctly different depth zones.

2.0 Method Summary

A one-inch or other sized diameter carbide drill bit is used in a rotary impact hammer drill to generate a fine powder, or other representative sample, suitable for extraction and analysis of PCBs from porous surfaces. This method also allows the use of chisels or knives for the collection of samples from soft porous surfaces for PCB analysis.

3.0 Definitions

3.1 Field/Bottle Blank: A sample container of the same lot as the containers used for the environmental samples. This evaluates PCB contamination introduced from the sample container(s) from a common lot.

3.2 Equipment/Rinse/Rinsate Blanks: A sample that is collected by pouring hexane over the sample collection equipment after decontamination and before sample collection. The sample is collected in the appropriate sample container identical to the sample containers. This represents background contamination resulting from the field equipment, sampling procedure, sample container, and shipment.

3.3 Field Replicates/Duplicates: Two or more samples collected at the same sampling location. Field replicates should be samples collected side by side. Field replicates represent the precision of the whole method, site heterogeneity, field sampling, and the laboratory analysis.

3.4 Field Split Samples: Two or more representative subsamples taken from one environmental sample in the field. Prior to splitting, the environmental sample is homogenized to correct for sample heterogeneity that would adversely impact data comparability. Field split samples are usually analyzed by different laboratories (interlaboratory comparison) or by the same laboratory (intralaboratory comparison). Field splits are used to assess sample handling procedures from field to laboratory and laboratory comparability.

3.5 Laboratory Quality Samples: Additional samples that will be collected for the laboratory's quality control program: matrix spike, matrix spike duplicate, laboratory duplicates, etc.

3.6 Proficiency Testing (PT)/Performance Evaluation (PE) Sample: A sample, the composition of which is unknown to the laboratory or analyst, provided to the analyst or laboratory to assess the capability to produce results within acceptable criteria. This is optional depending on the data quality objectives. If possible, it is recommended that the PE sample be of similar matrix as the porous surface(s) being sampled.

3.7 Porous Surface: Any surface that allows PCBs to penetrate or pass into itself including, but not limited to, paint or coating on metal; corroded metal; fibrous glass or glass wool; unglazed ceramics; ceramics with porous glaze; porous building stone such as sandstone, travertine, limestone, or coral rock; low density plastics such as Styrofoam and low density polyethylene; coated (varnished or painted) or uncoated wood; painted or unpainted concrete or cement; plaster; plasterboard; wallboard; rubber; caulking; fiberboard; chipboard; asphalt; or tar paper.

3.8 Shipping Container Temperature Blank: A water sample that is transported to the laboratory to measure the temperature of the samples in the cooler.

4.0 Health and Safety

4.1 Eye, respiratory, and hearing protection are required at all times during sample drilling. A properly fitted respirator is required for hard porous surface sampling. A respirator is recommended whenever there is a risk of inhalation of either particulate or volatilized PCBs during sampling.

4.2 All proper personal protection clothing and equipment must be worn.

4.3 When working with potentially hazardous materials or situations, follow EPA, OSHA, and specific health or safety procedures.

4.4 Care must be exercised when using an electrical drill and sharp cutting objects.

5.0 Interferences and Potential Problems

5.1 This sampling technique produces a finely ground uniform powder, which minimizes the physical matrix effects from variations in the sample consistency (i.e., particle size, uniformity, homogeneity, and surface condition). Matrix spike analysis of a sample is highly recommended to monitor for any matrix related interferences.

5.2 Nitrile gloves are recommended. Latex gloves must not be used due to possible phthalate contamination.

5.3 Interferences may result from using contaminated equipment, solvents, reagents, sample containers, or sampling in a disturbed area. The drill bit must be decontaminated between samples. (see Section 11.0.)

5.4 Cross contamination problems can be eliminated or minimized through the use of dedicated sampling equipment.

6.0 Personnel Qualifications

6.1 All field samplers working at hazardous materials/waste sites are required to take a 40 hour health and safety training course prior to engaging in any field activities. Subsequently, an 8 hour refresher health and safety course is required annually.

6.2 The field sampler should be trained by an experienced sampler before initiating this procedure.

6.3 All personnel shall be responsible for complying with all quality assurance/quality control requirements that pertain to their organizational/technical function.

7.0 Equipment and Supplies

7.1 This list varies with the matrix and if depth profiling is required

Rotary impact hammer variable speed drill
1-inch or other suitable (1/2, 3/4, etc.) diameter carbide tip drill bits
Steel chisel or sharp cutting knife, and hammer
Brush and cloths to clean area
Stainless steel scoopulas

Aluminum foil to collect the powder sample
1 quart Cubitainer with the top cut out to collect the powder sample
Aluminum weighing pans to collect the powder sample
Cleaned glass container (2 oz or 40 mL) with Teflon lined cap
Decontamination supplies: hexane, two small buckets, a scrub brush, detergent, deionized water, hexane squirt bottle, and paper towels
Dedicated vacuum cleaner with a disposable filter or a vacuum pump with a dust filter
Polyethylene tubing and Pasteur pipettes
Sample tags/labels, custody seals, and Chain-of-Custody form

8.0 Sampling Design

8.1 A sufficient number of samples must be collected to meet the data quality objectives of the project. If the source of the PCB contamination is regulated under the federal TSCA PCB Regulations at 40 CFR Part 761, the sampler should insure that the sampling design is sufficient to meet any investigation or verification sampling requirements. At a minimum, the following is recommended:

8.1.1 Suspected stained area (s) should be sampled.

8.1.2 At each separate location, collect at least 3 samples of each type of porous surface, regardless of the amount of each type of porous surface present.

8.1.3 In areas where PCB equipment was used or where PCBs were stored, samples should be collected at a frequency of 1 sample/100 square feet (ft^2).

9.0 Sample Collection

9.1 Hard Porous Surfaces

9.1.1 Lock a 1-inch or another size diameter carbide drill bit into the impact hammer drill and plug the drill into an appropriate power source. For easy identification, sample locations may be pre-marked using a marker or paint. (Note: the actual drilling point must not be marked.) Remove any debris with a clean brush or cloth prior to drilling. All sampling decisions of this nature should be noted in the sampling logbook.

9.1.2 Use a Cubitainer with the top cut off or aluminum foil to contain the powdered sample. Begin drilling in the designated location. Apply steady even pressure and let the drill do the work. Applying too much pressure will generate excessive heat and dull the drill bit prematurely. The drill will provide a finely ground powder that can be easily collected.

9.1.3 Samples should be collected at ½-inch depth intervals. Thus, the initial surface sample should be collected from 0 – 0.5 inches. A ½-inch deep hole generates about 10 grams (20 mL) of powder. Multiple holes located closely adjacent to each other, may be needed to generate sufficient sample volumes for a PCB determination. It is strongly recommended that the analytical laboratory be consulted on the minimum sample size needed for PCB extraction and analysis.

9.1.4 Wall and Ceiling Sampling: A team of two samplers will be required for wall and ceiling sampling. The second person will hold a clean catch surface (e.g. an aluminum pan) below the drill to collect the falling powder. Alternatively, use the chuck-end of the drill bit and punch a hole through the center of the collection pan. The drill bit is then mounted through the pan and into the drill. For ceilings, the drill may be held at an angle to collect the powder. Thus the driller can be drilling at an angle while the assistant steadies the pan to catch the falling powder. As a precaution, it may be advantageous to tape a piece of plastic around the drill, just below the chuck, to avoid dust contaminating the body of the drill and entering the drill's cooling vents. Caution must be taken to prevent obstruction of the drill's cooling vents.

9.2 Soft Porous Surfaces

9.2.1 The procedure for the hard porous surface may be used for certain soft porous surfaces, such as wood.

9.2.2 Samples should be collected at no more than ½-inch depth intervals using a metal chisel or sharp cutting knife. Thus, the initial surface sample should be collected from 0 – 0.5 inches. It is important to collect at least 10 grams for analysis.

9.2.3 For soft porous surfaces, such as caulking and rubber, a representative sample can be collected using a metal chisel or sharp cutting knife.

9.3 Multiple Depth Sampling

9.3.1 Multiple Depth Sampling may not be applicable to certain porous surfaces, such as caulking.

9.3.2 Collect the surface sample as outlined in Section 9.1 or 9.2.

9.3.3 Use the vacuum pump or cleaner to clean out the hole.

9.3.4 To collect multiple depths there are two options.

9.3.4.1 Option one: drill sequentially ½-inch increments with the 1 inch drill.

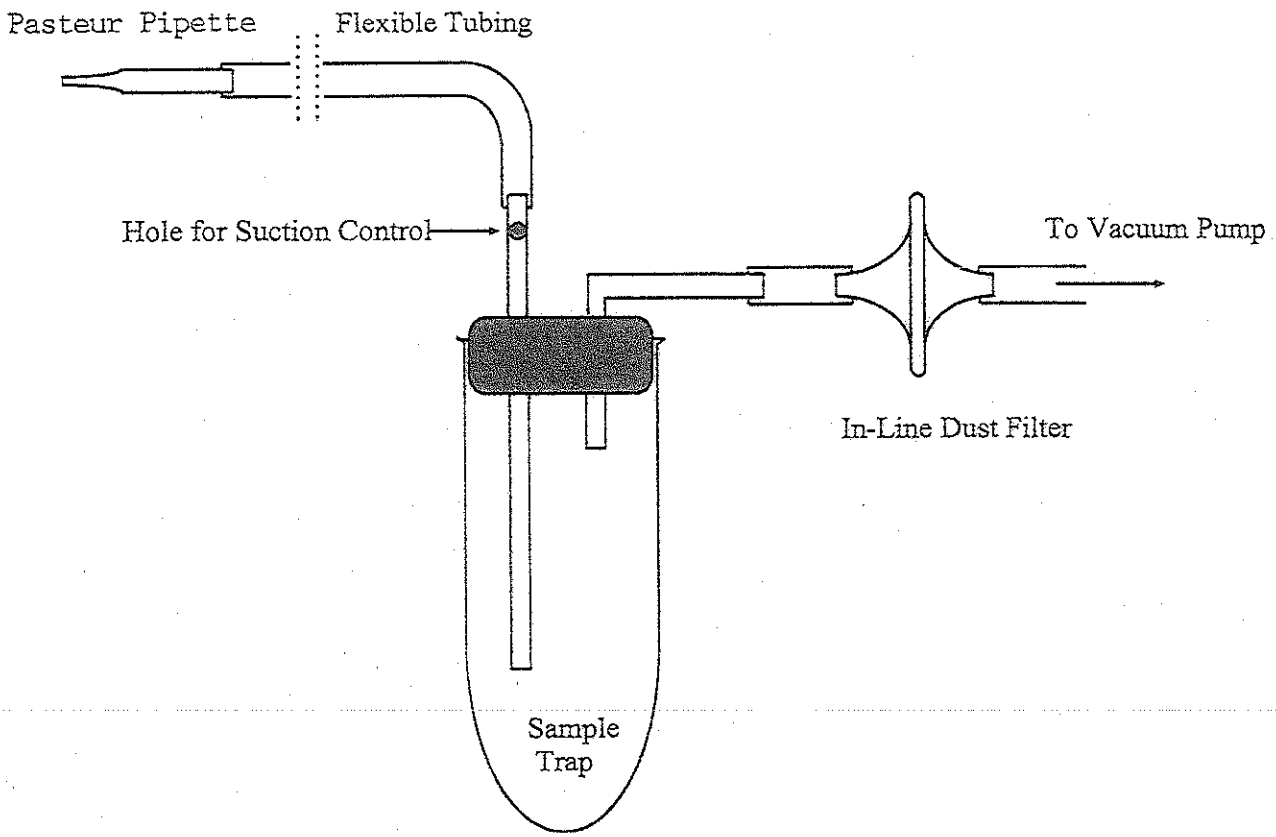
9.3.4.2 Option two: drill with the 1 inch bit and either make the hole larger or use a smaller bit to take the next ½- inch sample.

9.3.5 A stainless steel scoopula will make it easier to collect the sample from the bottom of the hole.

9.4 Vacuum Trap Design and Clean-out

The trap presented in Figure 1 is a convenient and thorough way for collecting and removing concrete powder from drilled holes. The trap system is designed to allow for control of the suction from the vacuum pump and easy trap clean-out between samples. Note, by placing a hole in the inlet tube (see Figure 1), a finger on the hand holding the trap can be used to control the suction at the sampling tip. Thus, when this hole is left completely open, there will be no suction, and the sampler can have complete control over where and what to sample. To change-out between samples the following steps should be taken: 1) the Pasteur pipette and piece of polyethylene tubing at the sample inlet should be replaced with new materials, 2) the portion of the rubber stopper and glass tubing that was in the trap should be wiped down with a clean damp paper towel (wetted with deionized water) and then dried with a fresh paper towel, 3) a clean pipe cleaner should be drawn through the glass inlet tube to remove any concrete dust present, and 4) the glass tube or flask used to collect the sample should swapped out with a clean decontaminated sample trap. Having several clean tubes or flasks on hand will facilitate change-out between samples.

Figure 1



Note: the holes should be vacuumed thoroughly to minimize any cross-contamination between sample depths and the bits should be decontaminated between samples. (See Section 11.0)

10.0 Sample Handling, Preservation, and Storage

10.1 Samples must be collected in glass containers for PCB analyses. In general, a 2-ounce sample container with a Teflon-lined cap (wide-mouth jars are preferred) will hold sufficient mass for most analyses. A 2-ounce jar can hold roughly 90 grams of sample.

10.2 Samples are to be shipped refrigerated and maintained at $\leq$ 6°C until the time of extraction and analysis.

10.3 The suggested holding time for PCB samples is 14 days to extraction.

11.0 Decontamination

11.1 Assemble two decontamination buckets. The first bucket contains a detergent and potable water solution, and the second bucket is for rinsate. Place all used drill bits, hose for the vacuum cleaner, and utensils in the detergent and water bucket. Scrub each piece thoroughly using the scrub brush. Note, the powder does cling to the metal surfaces, so care should be taken during this step, especially with the twists and curves of the drill bits. Next, rinse each piece with water and hexane. Place the rinsed pieces on clean paper towels and individually dry and inspect each piece. Note: all pieces should be dry prior to reuse.

11.2 Lightly contaminated drill bits and utensils may be wiped with a hexane soaked cloth and hexane rinsed for decontamination.

12.0 Data and Record Management

12.1 All data and information collection should follow a Field Data Management SOP or Quality Assurance Project Plan (QAPP).

12.2 Follow the chain of custody procedures to release the samples to the laboratory. A copy is kept with the sampling records.

12.3 The field data is stored for at least 3 years.

13.0 Quality Control and Quality Assurance

13.1 Representative samples are required. The sampler will evaluate the site specific conditions to assure the sample will be representative.

13.2 All sampling equipment must be decontaminated prior to use and between each discrete sample.

13.3 All field Quality Control (QC) sample requirements in a Sample and Analysis Plan (SAP) or QAPP must be followed. The SAP or QAPP may involve field blanks, equipment blanks, field duplicates and/or the collection of extra samples for the laboratory's quality control program.

13.4 Field duplicates should be collected at a minimum frequency of 1 per 20 samples or 1 per non-related porous matrix, whichever is greater.

14.0 Waste Management and Pollution Prevention

14.1 During field sampling events there may be PCB and/or hazardous waste produced from the sample collection. The waste must be handled and disposed of in accordance with federal, state, and local regulations. The dust filter, and tubing if a vacuum pump is used, is disposed after each site investigation. This waste will be treated as PCB waste if the samples are positive for PCBs. It may be possible to manage or dispose of the waste produced at the site where the work was performed. If the site does not meet regulatory requirements for these types of activities, the waste must be transported to a facility permitted to manage and/or dispose of the waste.

15.0 References

1. Guidance for the Preparation of Standard Operating Procedures for Quality-Related Operations, QA/G-6, EPA/600/R-96/027, November 1995.

2. 40 CFR Part 761 – Polychlorinated Biphenyls (PCBs) Manufacturing, Processing, Distribution In Commerce, and Use Prohibitions

3. Sample Container and Holding Time: RCRA SW 846, Chapter 4, Table 4.1, Revision 4, February, 2007.

Example of Sample Label and Custody Seal

U.S. ENVIRONMENTAL PROTECTION AGENCY – REGION I BOSTON, MASS.

LABEL

NAME OF UNIT AND ADDRESS

ENVIRONMENTAL SERVICES DIVISION
60 WESTVIEW STREET
LEXINGTON, MASSACHUSETTS 02173

DATE: YR/MO/DAY

TIME

STATION NO.

SAMPLE

SOURCE OF SAMPLE

SAMPLE NO.

SUB NO.

PRESERVATIVE

SAMPLING CREW(FIRST, INITIAL, LAST NAME)

AMOUNT

ANALYSIS

UNITED STATES
ENVIRONMENTAL PROTECTION AGENCY
OFFICIAL SAMPLE SEAL

SAMPLE NO.

DATE

SIGNATURE

PRINT NAME AND TITLE *(Inspector, Analyst or Technician)*

SEAL BROKEN BY

DATE

EPA FORM 7500-2 (R7-76)

Example of Chain of Custody Form

ENVIRONMENTAL PROTECTION AGENCY
REGION 1

CHAIN OF CUSTODY RECORD

PROJ. NO.	PROJECT NAME					
SAMPLERS: *(Signature)*					NO. OF CON-TAINERS	REMARKS
STA. NO.	DATE	TIME	COMP	GRAB	STATION LOCATION	

Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*	Relinquished by: *(Signature)*	Date / Time	Received by: *(Signature)*
Relinquished by: *(Signature)*	Date / Time	Received for Laboratory by: *(Signature)*	Date / Time	Remarks	

Distribution: Original Accompanies Shipment; Copy to Coordinator Field Files

1-16940

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APPENDIX B: LABORATORY ANALYTICAL REPORTS

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
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800-929-9906
www.analyticslab.com

February 3, 2012

Ms. Amy Wallace
Woodard & Curran
35 NE Business Center Suite 180
Andover MA 01810

RE: Analytical Results Case Narrative
Analytics # 72071
UMaine Stewart Commons Project No:222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

The MS/MSD analyzed on sample 72071-1 did not meet acceptance criteria for PCB 1260 due to matrix interference. In addition the MS/MSD had high RPDs. The laboratory control samples L013012PSOX/LD013012PSOX were in control for all anlaytes. Results were reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72071

Revision: Rev. 0

Re: UMaine Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 30 January 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
72071-1	01/26/12	UMSC-CBK-121	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 2/3/2012

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 2, 2012

SAMPLE DATA

Lab Sample ID: B013012PSOX
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 01/31/12
Analysis Date: 01/31/12

CLIENT SAMPLE ID

Project Name: UMaine Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	50	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.

COMMENTS: Results are expressed on a dry weight basis.

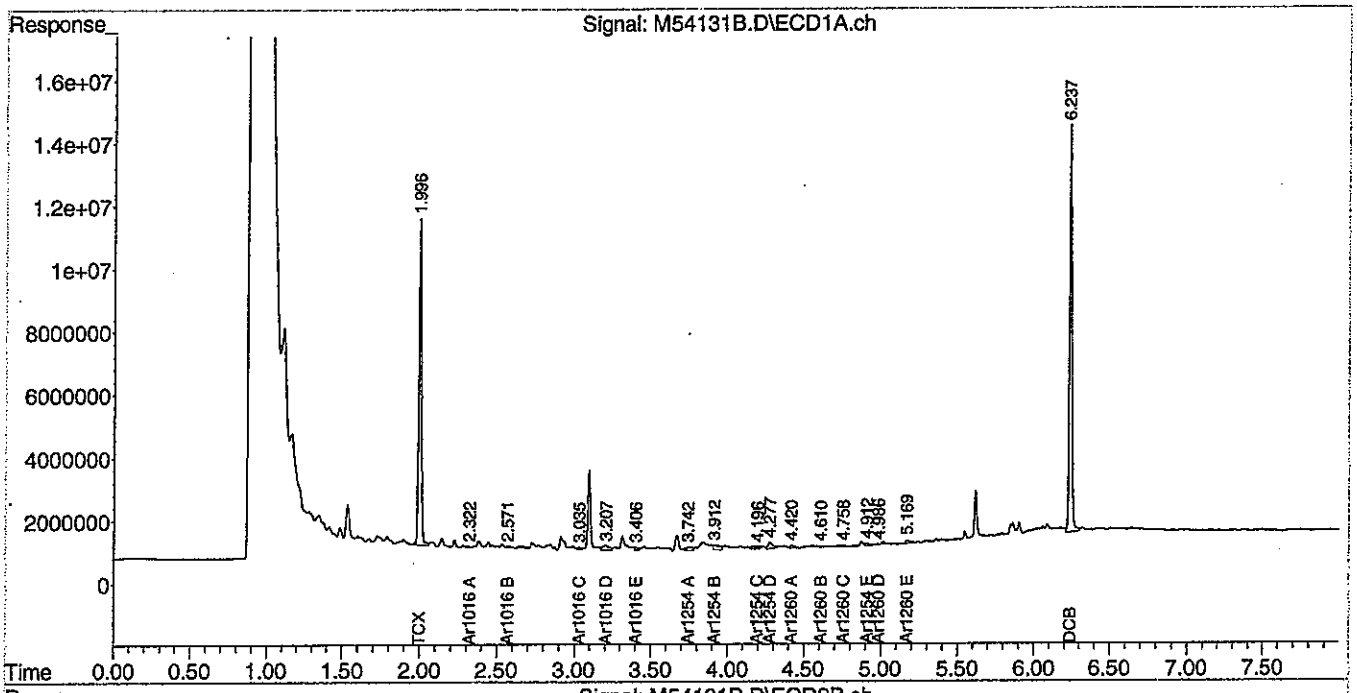
PCB Report

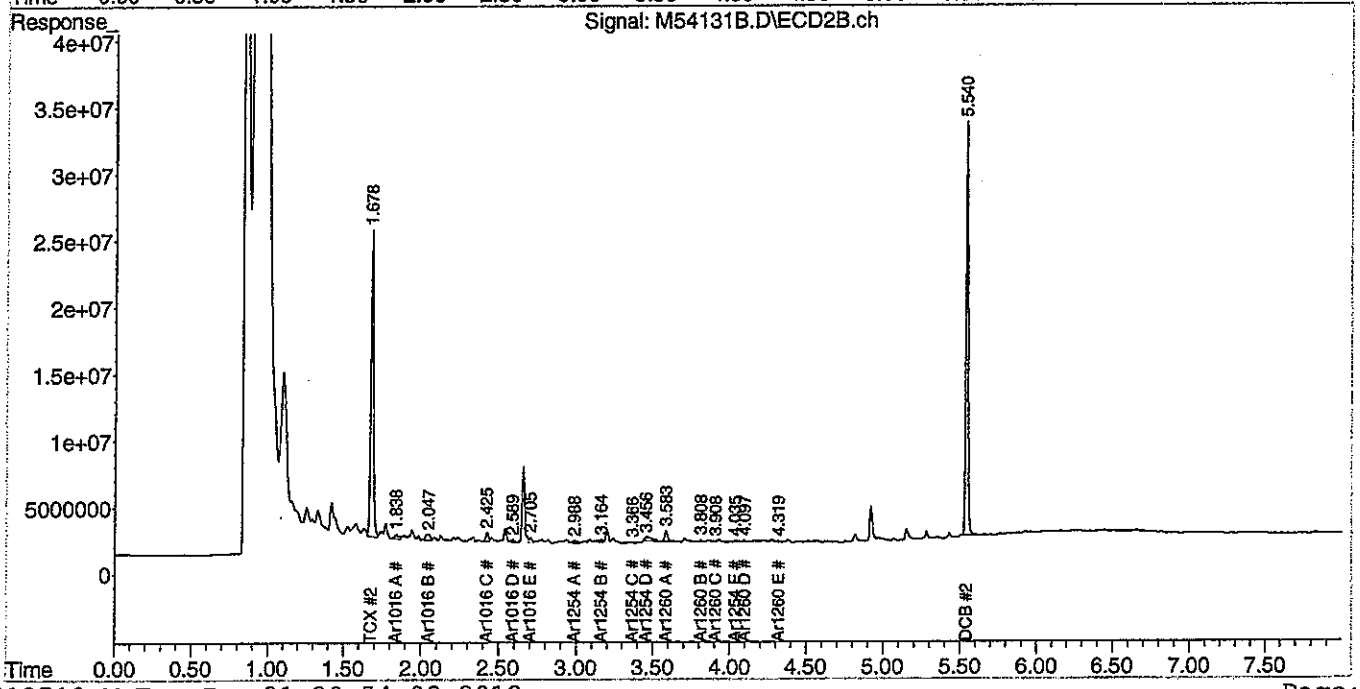
Authorized signature

Data Path : C:\msdchem\1\DATA\013112-M\
Data File : M54131B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 31 Jan 2012 7:22 pm
Operator : JK
Sample : B013012PSOX
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Jan 31 20:54:08 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jan 31 15:55:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 2, 2012

SAMPLE DATA

Lab Sample ID: B013012PSOX2
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 01/30/12
Analysis Date: 02/01/12

CLIENT SAMPLE ID

Project Name: UMaine Stewart Commons

Project Number: 222822

Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

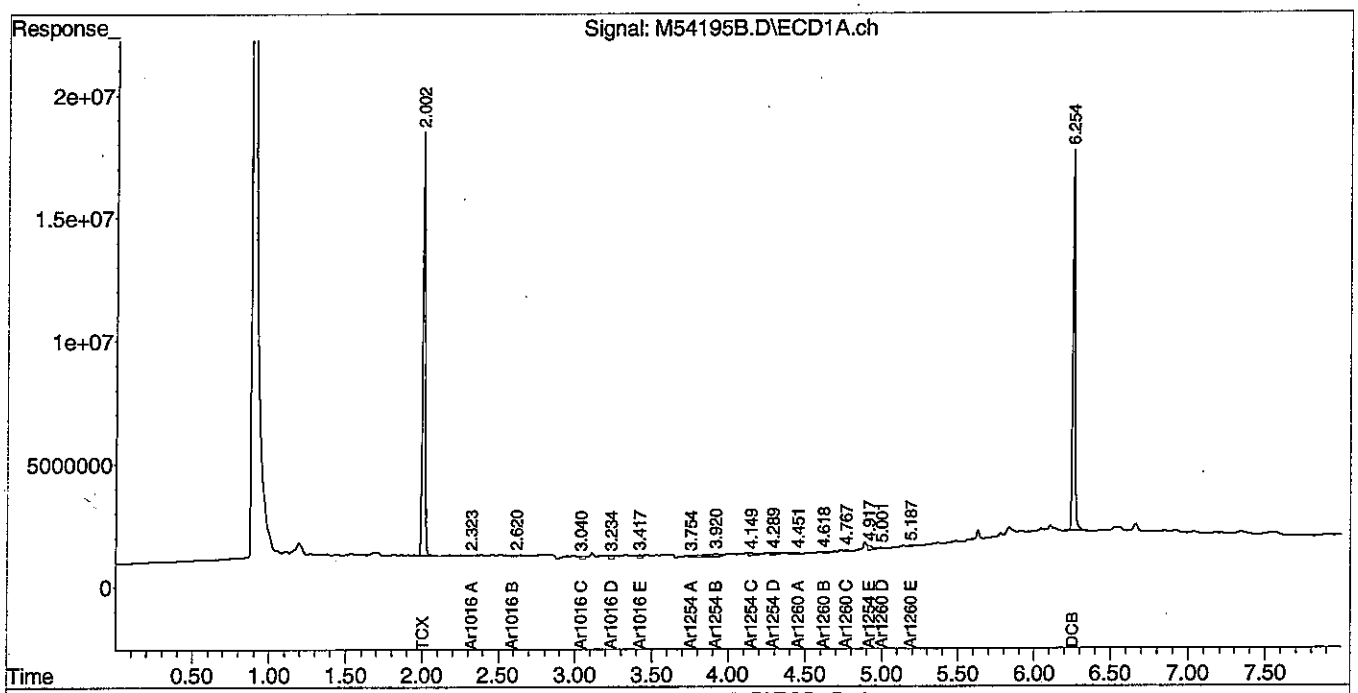
PCB Report

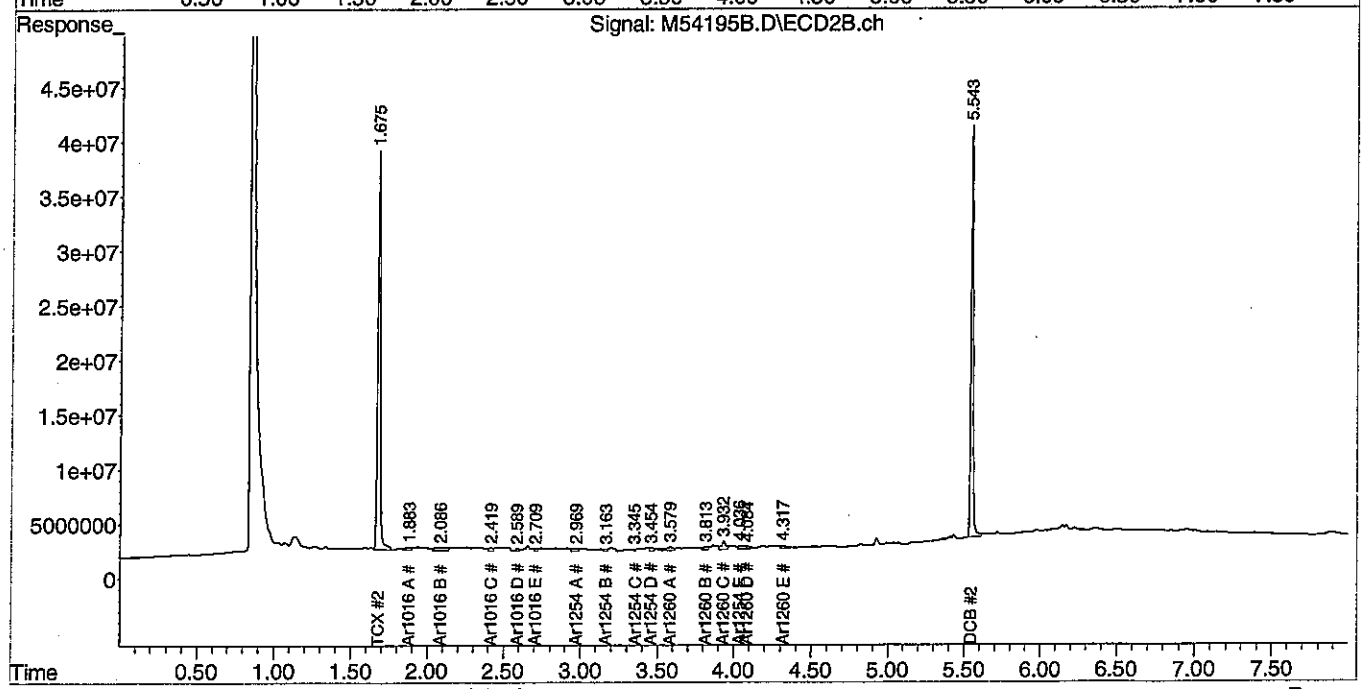
Authorized signature MMcHull

Data Path : C:\msdchem\1\DATA\020112-M\
Data File : M54195B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2012 9:58 am
Operator : JK
Sample : B013012PSOX2,,A/C
Misc : SOIL
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 02 11:41:54 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jan 31 15:55:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 2, 2012

SAMPLE DATA

Lab Sample ID:	72071-1
Matrix:	Solid
Percent Solid:	99
Dilution Factor:	8
Collection Date:	01/26/12
Lab Receipt Date:	01/30/12
Extraction Date:	01/30/12
Analysis Date:	02/01/12

CLIENT SAMPLE ID

Project Name:	UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-CBK-121

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	264	U
PCB-1221	264	U
PCB-1232	264	U
PCB-1242	264	U
PCB-1248	264	U
PCB-1254	264	**687**
PCB-1260	264	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	76	%
Decachlorobiphenyl	54	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72071
Sample: 72071-1,,A/C
Data File: M54197.D
Dilution Factor: 7.5

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	687	685	0.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

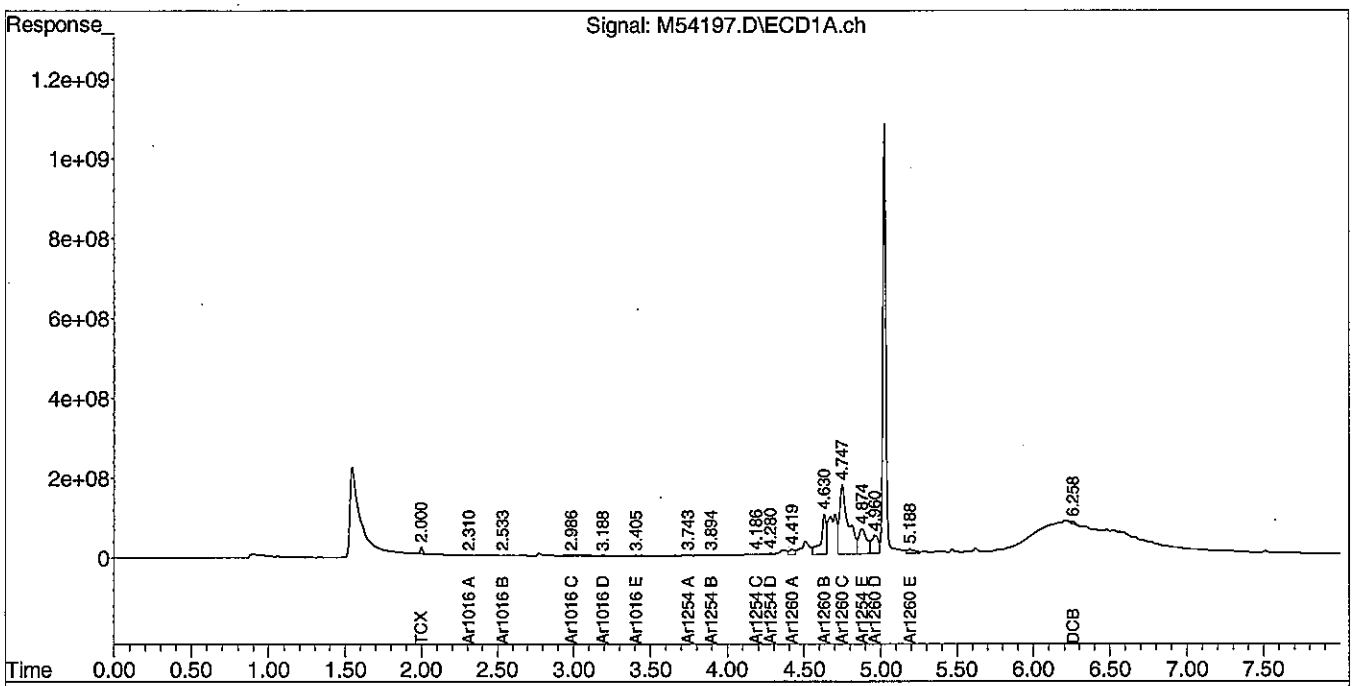
Comments: _____

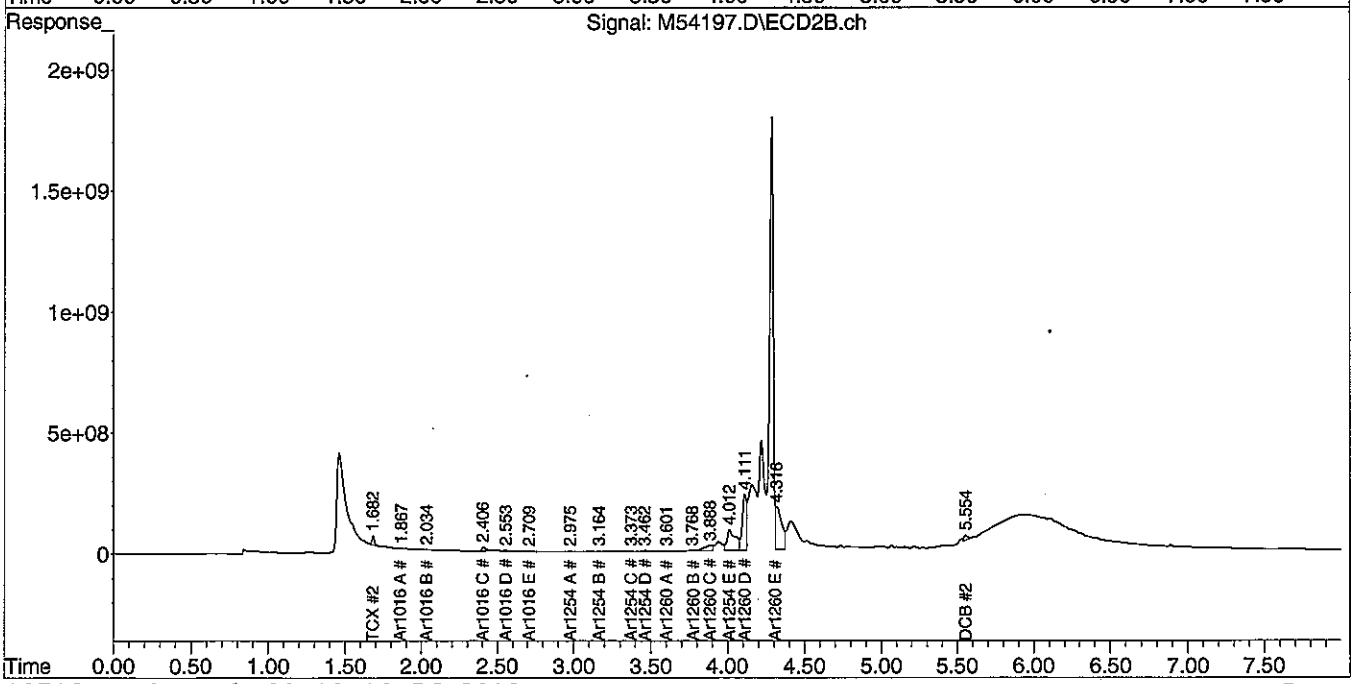
PCB FORM 10

Data Path : C:\msdchem\1\DATA\020112-M\
Data File : M54197.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 Feb 2012 10:19 am
Operator : JK
Sample : 72071-1,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

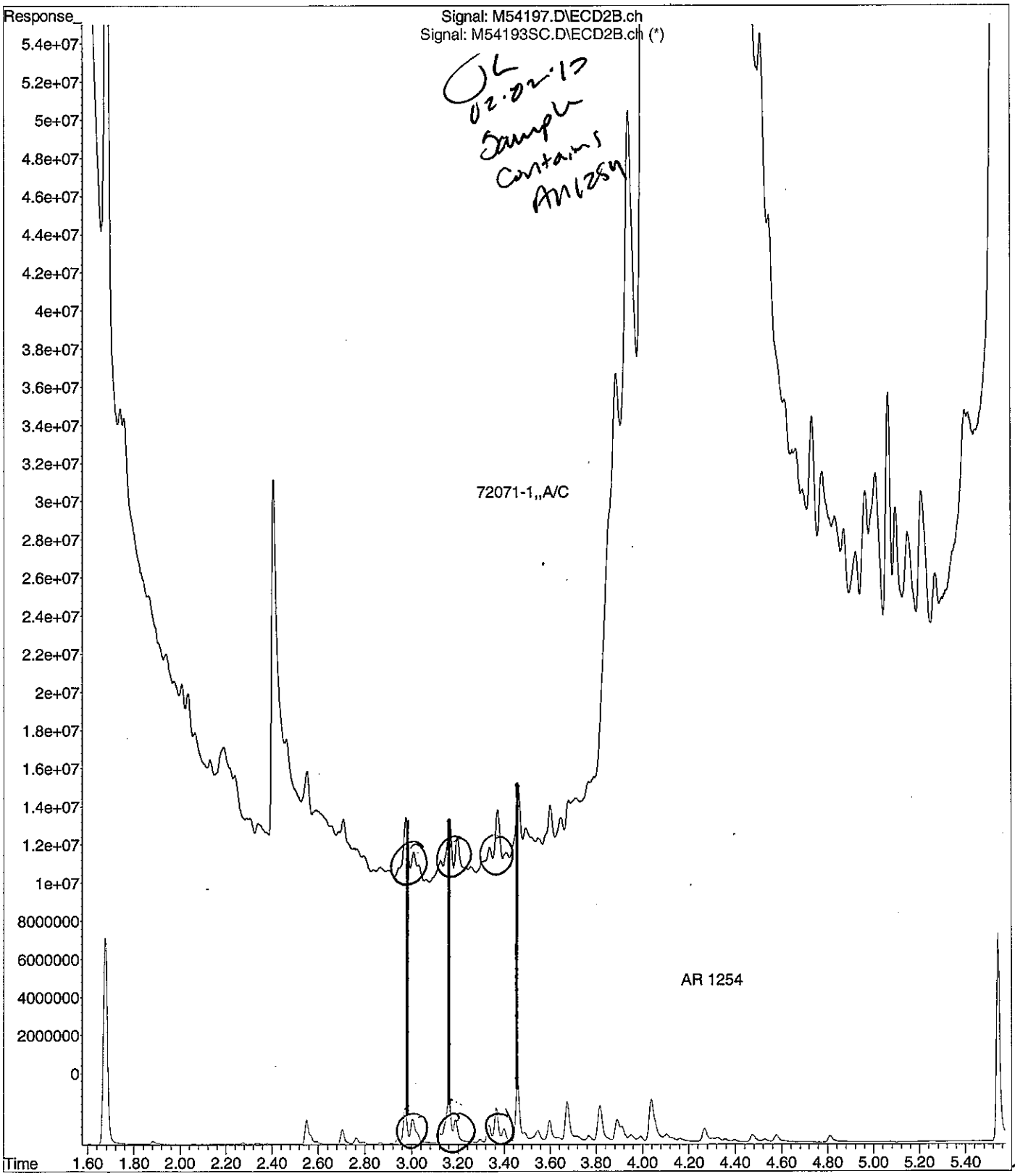
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 02 12:18:46 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Jan 31 15:55:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\020112-M\M54197.D
Operator : JK
Acquired : 1 Feb 2012 10:19 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72071-1,,A/C
Misc Info : SOIL
Vial Number: 9



D22r2

analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72071

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B013012PSOX	50		66		48		59	
L013012PSOX	75		70		71		65	
LD013012PSOX	71		66		68		47	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72071

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B013012PSOX2,,A/C	83		77		79		75	
72071-1,,A/C	76		54		65		66	
72071-1,MS,,A/C	71		59		60		38	*
72071-1,MSD,,A/C	65		66		57		36	*

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72071

Non-spiked sample: B013012PSOX,,A/C

Spike: L013012PSOX,,A/C

Spike duplicate: LD013012PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	160	80		159	80		0.5	
PCB 1260	200	200	60	130	30	0	158	79		160	80		0.8	
PCB 1016 #2	200	200	65	140	30	0	172	86		167	83		3.2	
PCB 1260 #2	200	200	60	130	30	0	161	81		162	81		0.6	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72071

Non-spiked sample: B013012PSOX

Spike: L013012PSOX

Spike duplicate: LD013012PSOX

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	151	75		145	73		3.6	
PCB 1260	200	200	60	130	30	0	152	76		154	77		1.0	
PCB 1016 #2	200	200	65	140	30	0	151	75		155	77		2.8	
PCB 1260 #2	200	200	60	130	30	0	152	76		144	72		5.7	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72071

Non-spiked sample: 72071-1,,A/C

Spike: 72071-1,MS,,A/C

Spike duplicate: 72071-1,MSD,,A/C

COMPOUND	MS SPIKE ADDED (ug/kg)	MSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	1542	1295	65	140	30	0	1263	82		871	67		36.7	*
PCB 1260	1542	1295	60	130	30	0	89858	5826	*	15012	1159	*	142.7	*
PCB 1016 #2	1542	1295	65	140	30	0	1571	102		1088	84		36.3	*
PCB 1260 #2	1542	1295	60	130	30	0	63892	4143	*	44537	3439	*	35.7	*

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 0.1 C
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: 1/30/12

Project#: 222822 Proj. Name: UMaine Stewart Commons
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr. Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis

Matrix Key:
C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Station Identification	Sample Date	Sample Time	Preservation: Unpres	4° C	HNO_3	H_2SO_4	HCl	Methanol	Other	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet Y or N	TPH: 8015DRO 8015GRO 8100M	EPH: Full (includes targets) Ranges only	VPH: Full (includes targets) Ranges only	Metals: RCRA8 PP13 TAL23 Other*	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-CBK-121	1/26/12	10:45		X										X					caulk	1		72071-1

Email Results to: awallace@woodardcurran.com

Turnaround Time (TAT): 24 Hours*; 48 Hours*; 72 Hours*; X 5 Days*; 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: * List requested metals here

Project Requirements: *Fee may apply
Report Type: MCP*; CTRCP*; DOD*; X Level II*; Level III*; Level IV*; Standard
State: NH; MA; X ME; CT; RI; Other:
State Standard: (eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): Amy Wallace

Relinquished By	Date	Time	Received By
Relinquished By Sampler: Amy Wallace	1/30/12	07:35	Cold storage
Relinquished By: Cold Storage	1/30/12	11:00	[illegible]
Relinquished By:	Date:	Time:	Received By:

Page 1 of 1

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72071 COOLER NUMBER: 249

CLIENT: Woodard+Curran NUMBER OF COOLERS: 1

PROJECT: Lumaire Stewart Commons

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): DW DATE COOLER RECEIVED/OPENED: 1·30·12

2. Circle one: Hand delivered ~~(If so, skip 3)~~ Shipped

3. Did cooler come with a shipping slip? Y N N/A

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y N N/A
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N N/A

6. COC#: N/A

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 2.1°C

B. Log-In: Date samples were logged in: 1·30·12 By: MT

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were bubbles absent in VOA samples? Y N* N/A

If NO, List Sample ID's, Lab #s, and the size of the bubble(s): _____

*When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): _____ Date: 1/30/12

analytics environmental laboratory LLC

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www.analyticslab.com

February 15, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72132
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
Samples were received at 8°C, which is outside the laboratory acceptance criteria. Sample "UMSC-VBA-151" had insufficient sample volume. Also the label for "UMSC-VBB-154" had a sample time of 11:15 yet the COC states sample time of 11:25 am. The client was notified and informed the laboratory to continue with analysis of samples and to report sample times from the COC.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Multiple samples required dilution due to concentrations of PCB 1254 detected in the sample or sample matrix affect.

Surrogate Decachlorobiphenyl (DCB) recovery could not be determined on column#1 for sample 72132-1 thru 72132-7 due to matrix interference. Surrogate results were reported off of column#2 without qualification.

The analytical window for samples 72132-1 thru 72132-9, 72132-24, 72132-28 and 72132-31 had low recovery for surrogate Decachlorobiphenyl (DCB) on column#2 for the closing continuing calibration standard (file#M54523SC). Column#1 was in control for all analytes. Results were reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

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800-929-9906
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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72132

Revision: Rev. 0

Re: UMaine- Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 08 February 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: Samples received at 8.0 °C which was outside laboratory acceptance criteria. While 'UMSC-VBA-151" for PCB in Aqueous has insufficient sample volume.

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 2/15/2012

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CLIENT: Woodard & Curran **REPORT NUMBER: 72132** **REV: Rev. 0**

PROJECT: UMaine- Stewart Commons (Project No: 222822)

Lab Number	Sample Date	Station Location	Analysis	Comments
72132-1	02/07/12	UMSC-VBS-140	EPA 8082 (PCBs only)	
72132-2	02/07/12	UMSC-VBS-141	EPA 8082 (PCBs only)	
72132-3	02/07/12	UMSC-VBS-142	EPA 8082 (PCBs only)	
72132-4	02/07/12	UMSC-VBS-143	EPA 8082 (PCBs only)	
72132-5	02/07/12	UMSC-VBS-144	EPA 8082 (PCBs only)	
72132-6	02/07/12	UMSC-VBS-145	EPA 8082 (PCBs only)	
72132-7	02/07/12	UMSC-VBS-146	EPA 8082 (PCBs only)	
72132-8	02/07/12	UMSC-VBS-147	EPA 8082 (PCBs only)	
72132-9	02/07/12	UMSC-VBS-148	EPA 8082 (PCBs only)	
72132-10	02/07/12	UMSC-VBS-149	EPA 8082 (PCBs only)	
72132-11	02/01/12	UMSC-VBB-122	EPA 8082 (PCBs only)	
72132-12	02/01/12	UMSC-VBC-123	EPA 8082 (PCBs only)	
72132-13	02/01/12	UMSC-VBC-124	EPA 8082 (PCBs only)	
72132-14	02/01/12	UMSC-VBC-125	EPA 8082 (PCBs only)	
72132-15	02/01/12	UMSC-VBC-126	EPA 8082 (PCBs only)	
72132-16	02/01/12	UMSC-VBP-127	EPA 8082 (PCBs only)	
72132-17	02/07/12	UMSC-VBS-150	EPA 8082 (PCBs only)	
72132-18	02/07/12	UMSC-VBA-151	EPA 8082 (PCBs only)	
72132-19	02/07/12	UMSC-VBB-152	EPA 8082 (PCBs only)	
72132-20	02/07/12	UMSC-VBB-154	EPA 8082 (PCBs only)	
72132-21	02/06/12	UMSC-VWM-128	EPA 8082 (PCBs only)	
72132-22	02/06/12	UMSC-VWM-129	EPA 8082 (PCBs only)	
72132-23	02/06/12	UMSC-VWM-130	EPA 8082 (PCBs only)	
72132-24	02/06/12	UMSC-VWM-131	EPA 8082 (PCBs only)	
72132-25	02/06/12	UMSC-VWM-132	EPA 8082 (PCBs only)	
72132-26	02/06/12	UMSC-VWM-133	EPA 8082 (PCBs only)	
72132-27	02/06/12	UMSC-VWM-134	EPA 8082 (PCBs only)	
72132-28	02/06/12	UMSC-VWM-135	EPA 8082 (PCBs only)	
72132-29	02/06/12	UMSC-VWM-136	EPA 8082 (PCBs only)	
72132-30	02/06/12	UMSC-VWM-137	EPA 8082 (PCBs only)	
72132-31	02/06/12	UMSC-VWM-138	EPA 8082 (PCBs only)	
72132-32	02/06/12	UMSC-VWM-139	EPA 8082 (PCBs only)	
72132-33	02/07/12	UMSC-VWM-153	EPA 8082 (PCBs only)	

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

PCB
DATA SUMMARIES

analytics environmental laboratory LLC

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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 14, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons

Project Number: 222822

Field Sample ID: Lab QC

Lab Sample ID: B020912PSOX
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 02/09/12
Analysis Date: 02/13/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	78	%
Decachlorobiphenyl	70	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

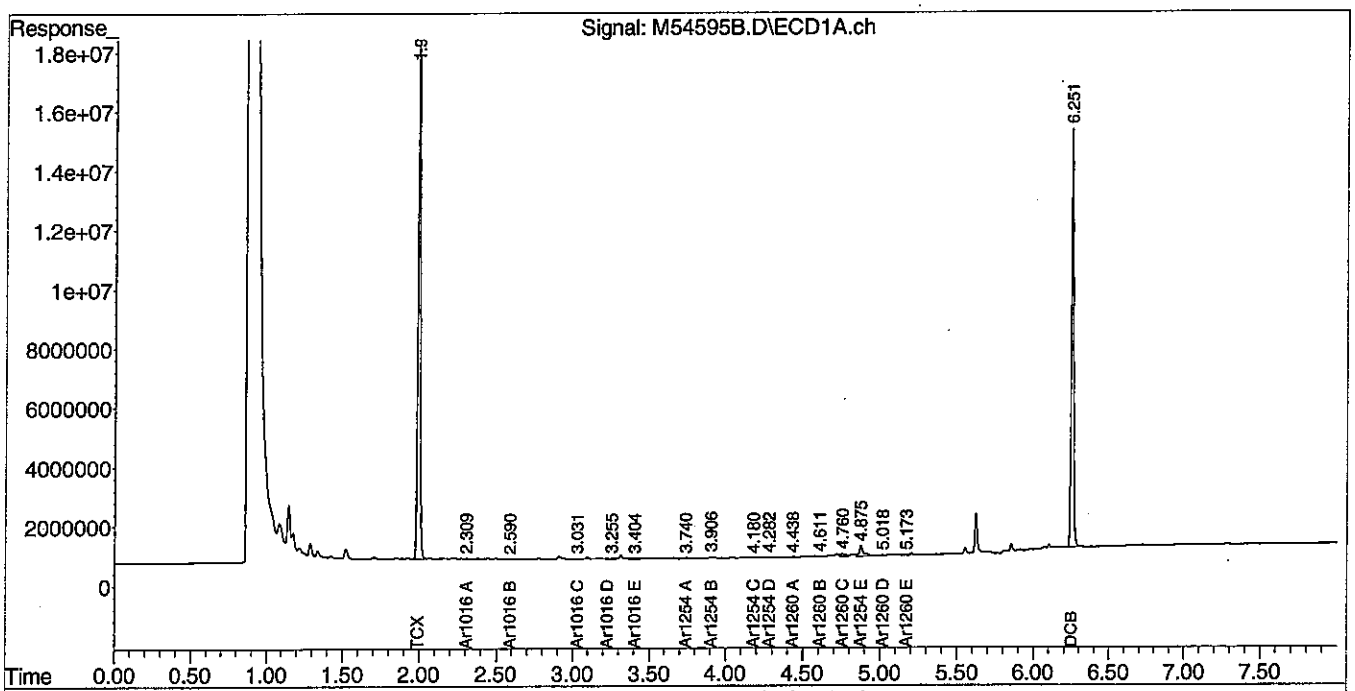
PCB Report

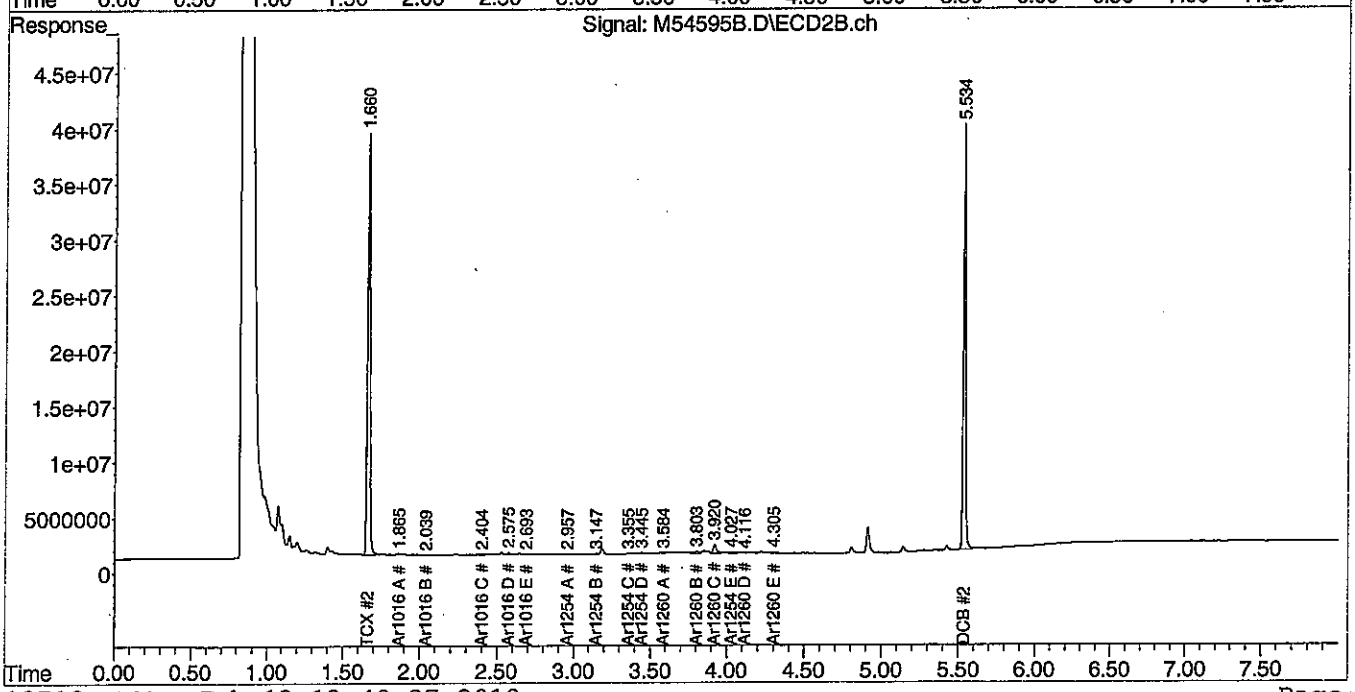
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54595B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 10:56 am
Operator : JK
Sample : B020912PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 13 13:49:26 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Sat Feb 11 02:00:06 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
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41 Hutchins Drive
Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID: B021412PW
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 02/14/12
Analysis Date: 02/14/12

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L
PCB-1016	0.2	U
PCB-1221	0.2	U
PCB-1232	0.2	U
PCB-1242	0.2	U
PCB-1248	0.2	U
PCB-1254	0.2	U
PCB-1260	0.2	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	81	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

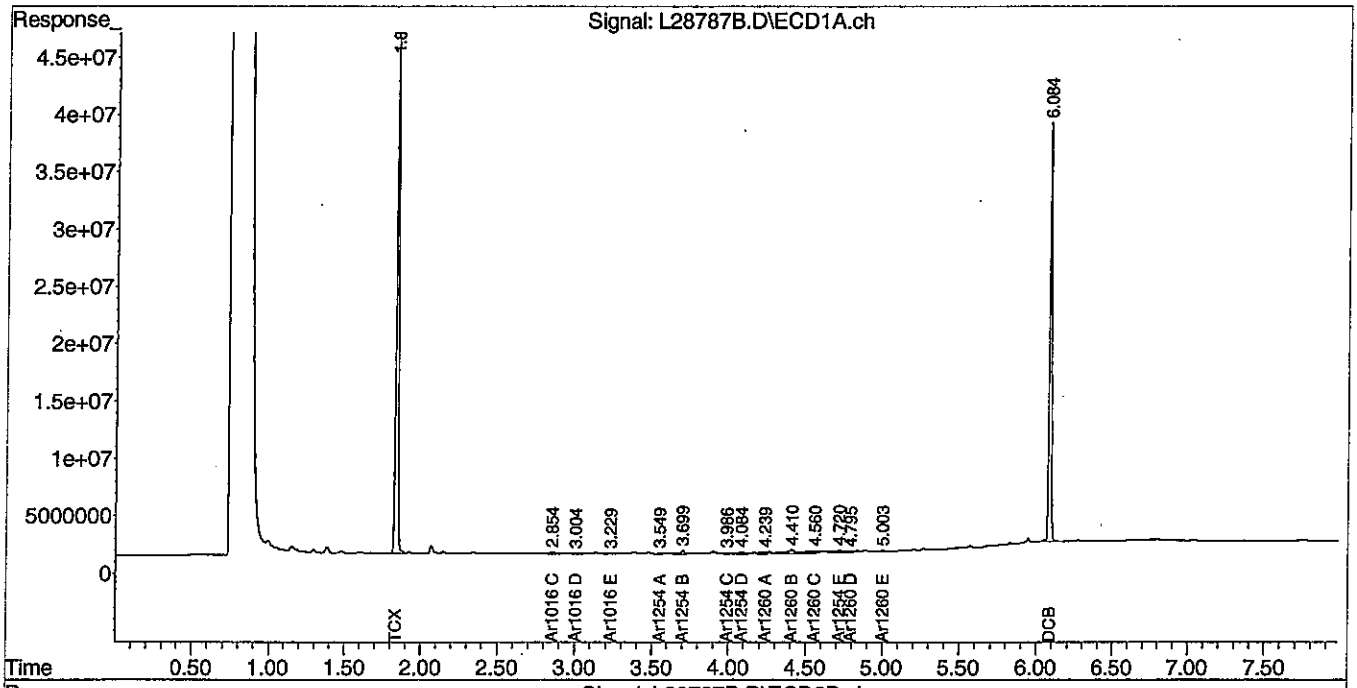
PCB Report

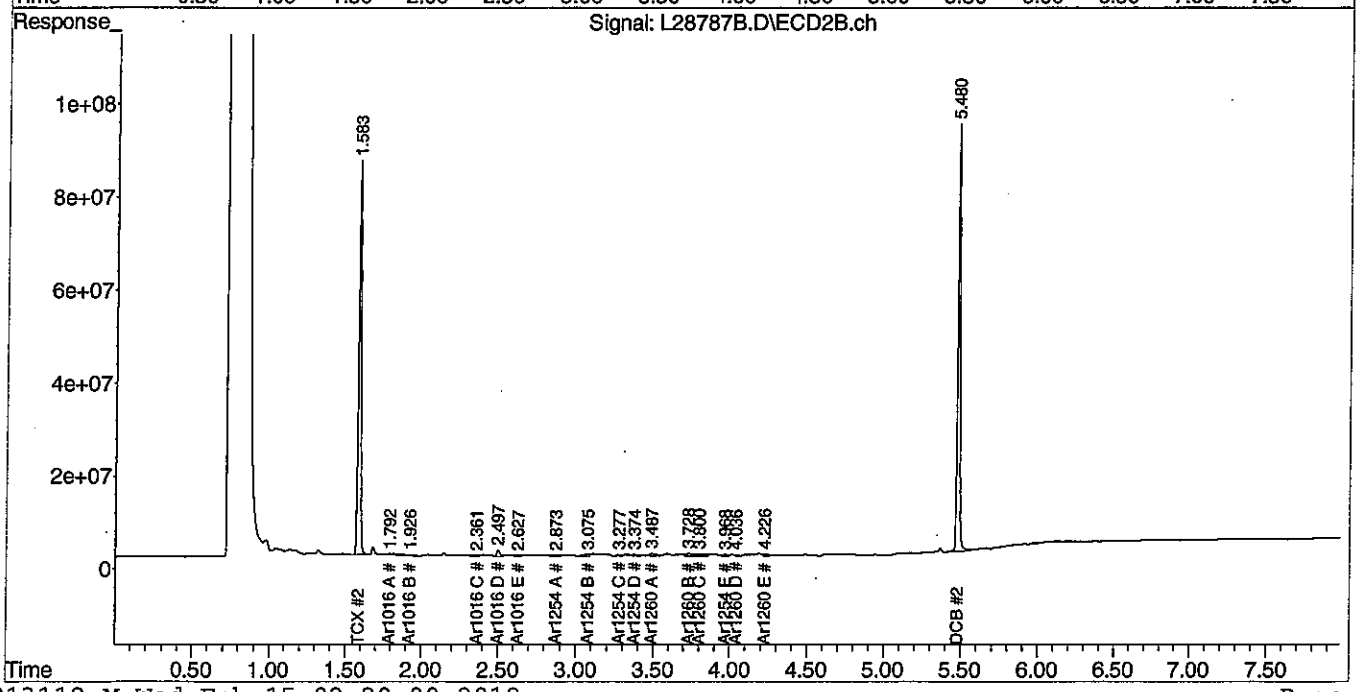
Authorized signature

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28787B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2012 9:46 pm
Operator : AR
Sample : B021412PW
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 02:29:00 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID: B021312PSOXW
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 02/13/12
Analysis Date: 02/14/12

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

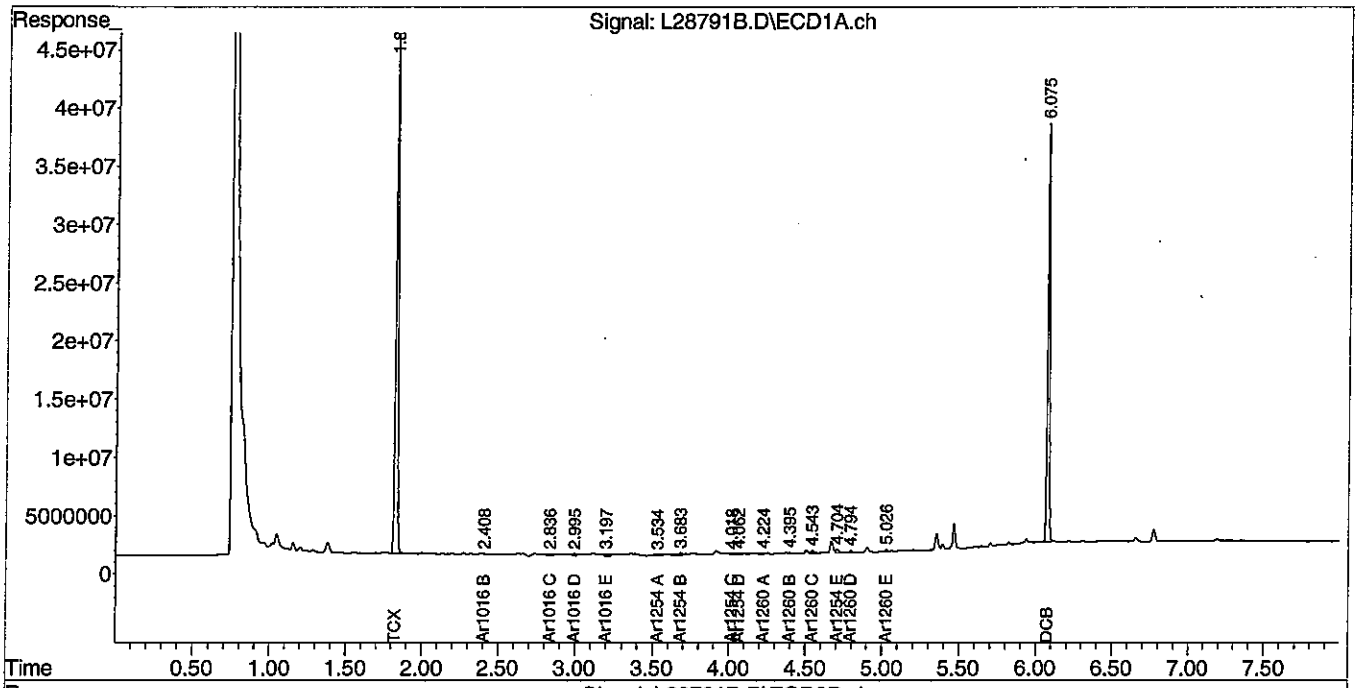
PCB Report

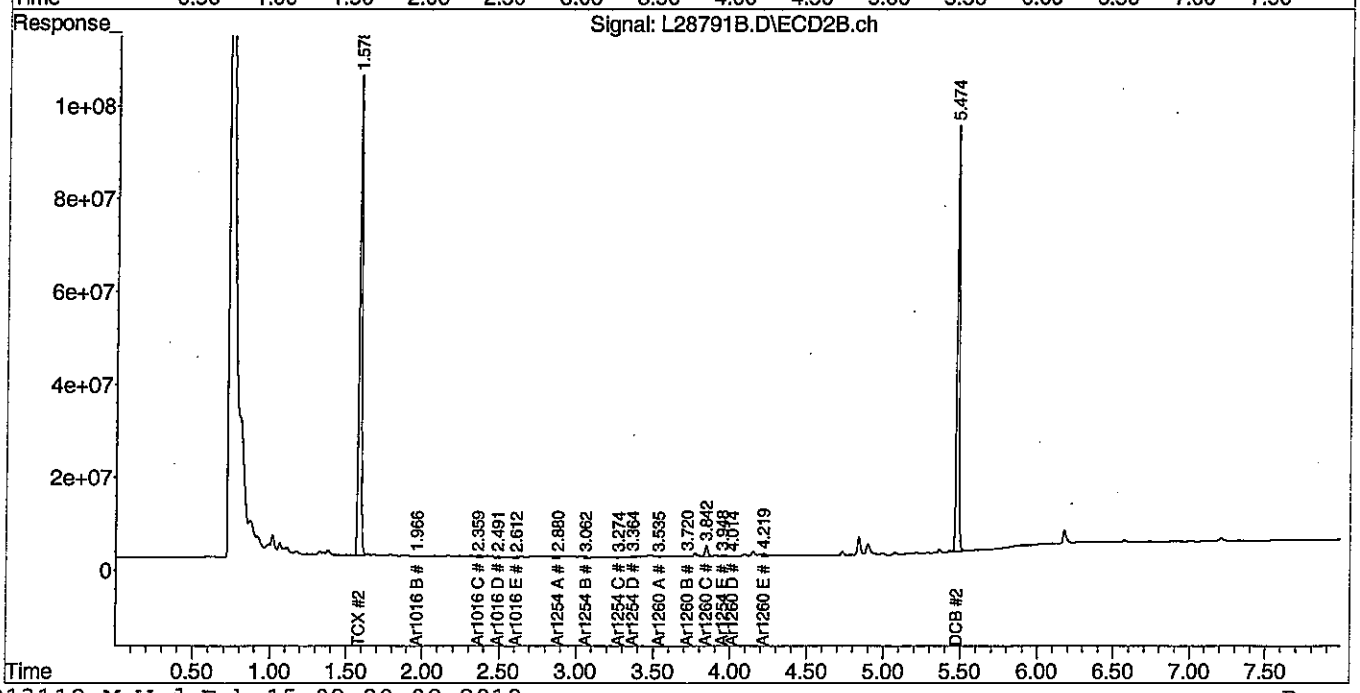
Authorized signature

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28791B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2012 10:27 pm
Operator : AR
Sample : B021312PSOXW,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 02:29:08 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID: B020912PSOX
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 02/09/12
Analysis Date: 02/15/12

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	91	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

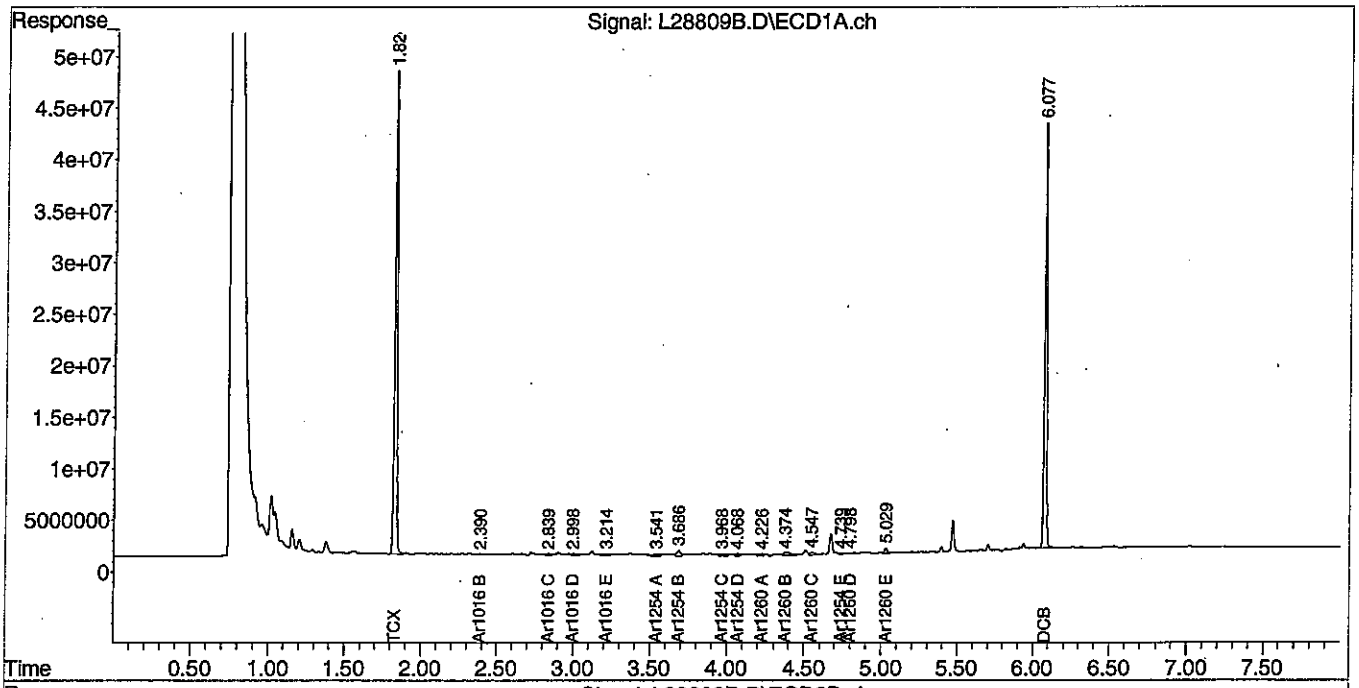
PCB Report

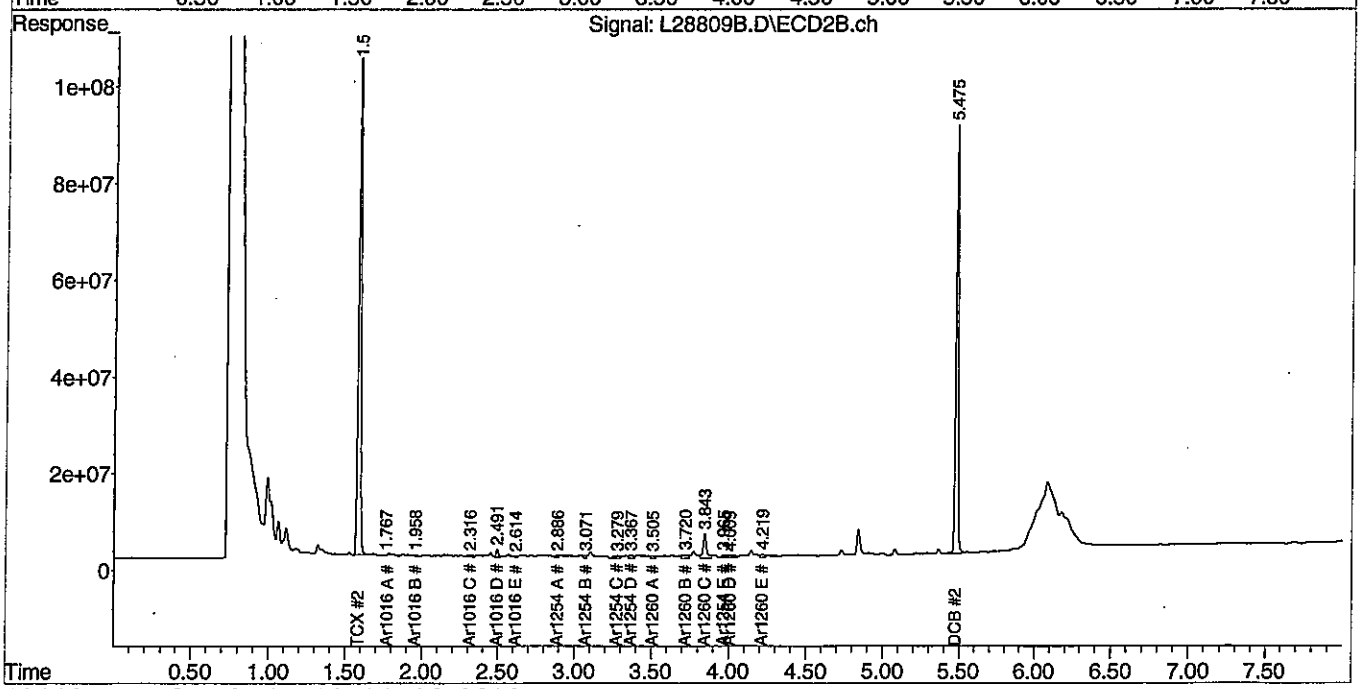
Authorized signature

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28809B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 5:35 am
Operator : AR
Sample : B020912PSOX,,A/C
Misc : SOIL
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:13:59 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-1
Matrix:	Solid
Percent Solid:	73
Dilution Factor:	1.3
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-140

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	43	U
PCB-1221	43	U
PCB-1232	43	U
PCB-1242	43	U
PCB-1248	43	U
PCB-1254	43	**457**
PCB-1260	43	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	65	%
Decachlorobiphenyl	57	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-1,,A/C
Data File: L28814.D
Dilution Factor: 1.3

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	457	374	20.0	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

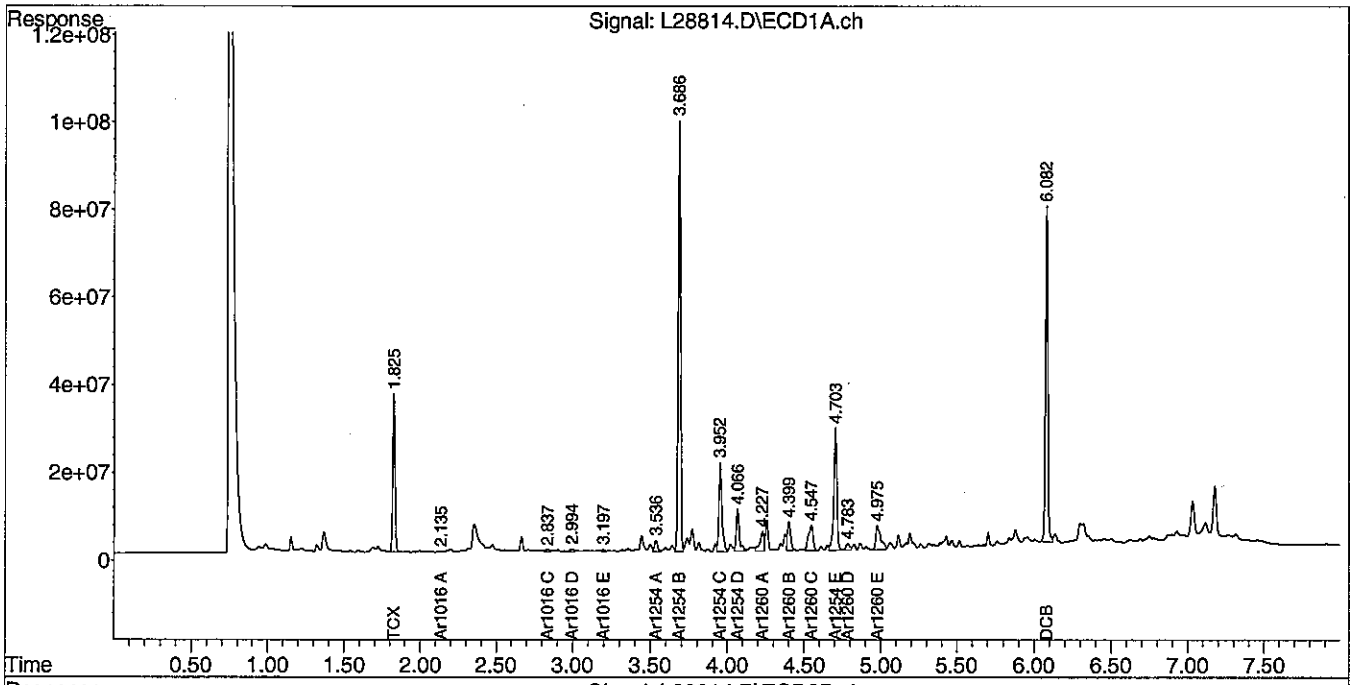
Comments: _____

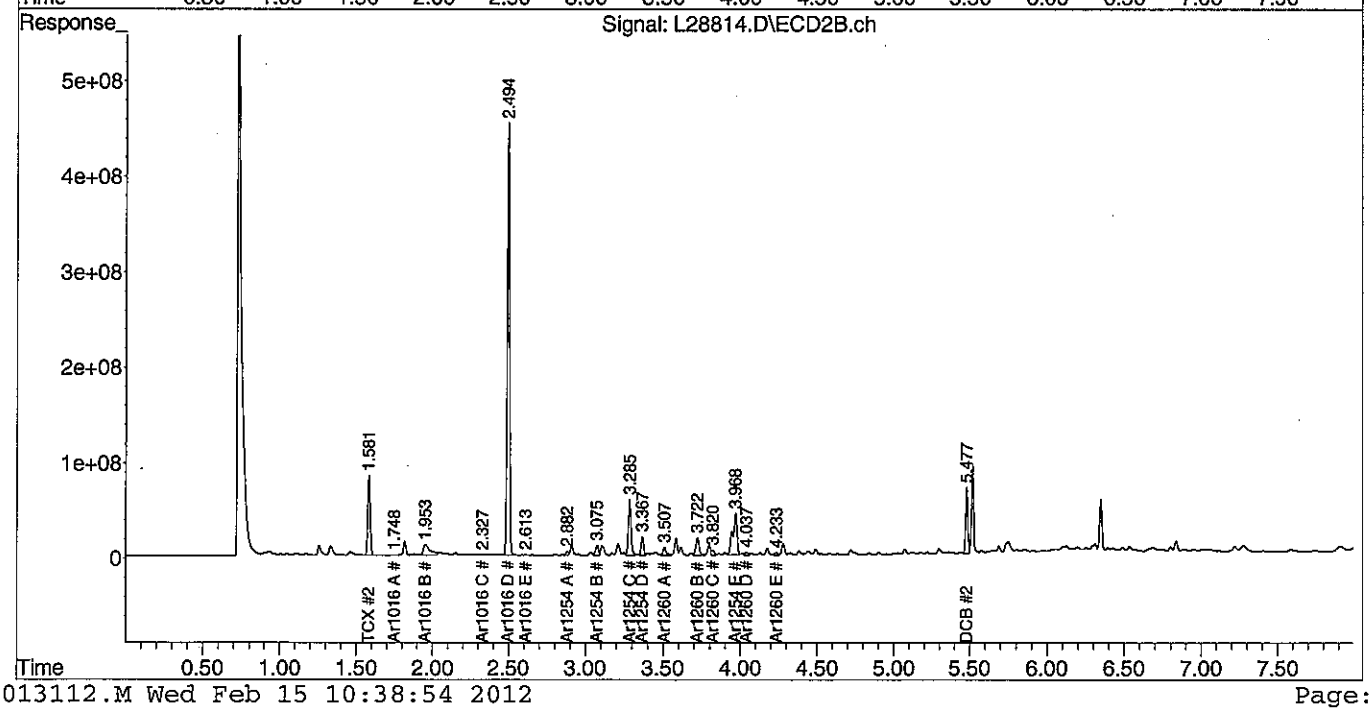
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28814.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 6:26 am
Operator : AR
Sample : 72132-1,,A/C
Misc : SOIL
ALS Vial : 33 Sample Multiplier: 1

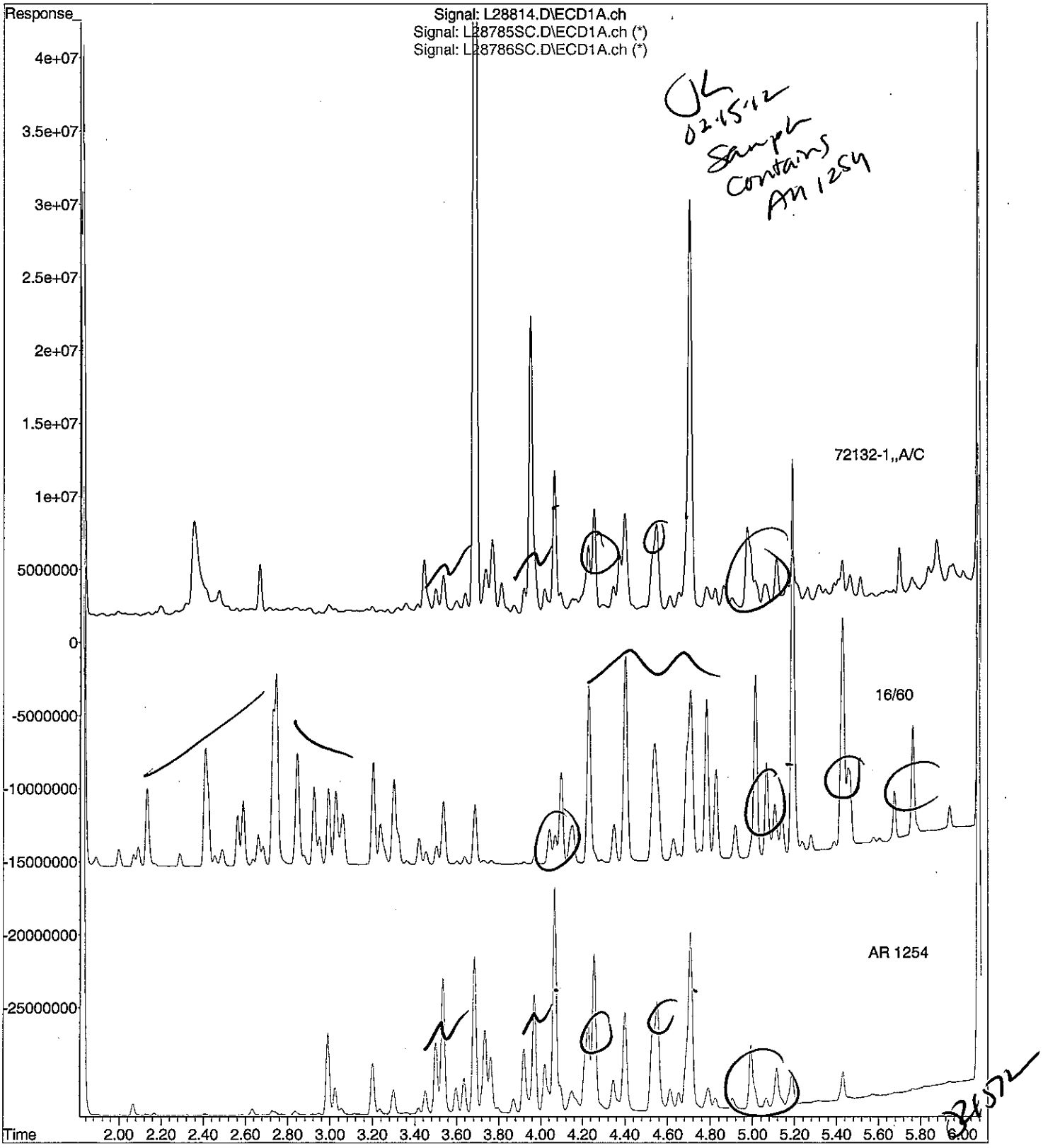
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:38:47 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021412-L\L28814.D
Operator : AR
Acquired : 15 Feb 2012 6:26 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72132-1,,A/C
Misc Info : SOIL
Vial Number: 33



JL 02.15.12 Sample contains AR 1254

72132

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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-2
Matrix:	Solid
Percent Solid:	70
Dilution Factor:	2.8
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-141

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	92	U
PCB-1221	92	U
PCB-1232	92	U
PCB-1242	92	U
PCB-1248	92	U
PCB-1254	92	U
PCB-1260	92	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	99	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Quantitation limits increased due to the sample matrix affect.

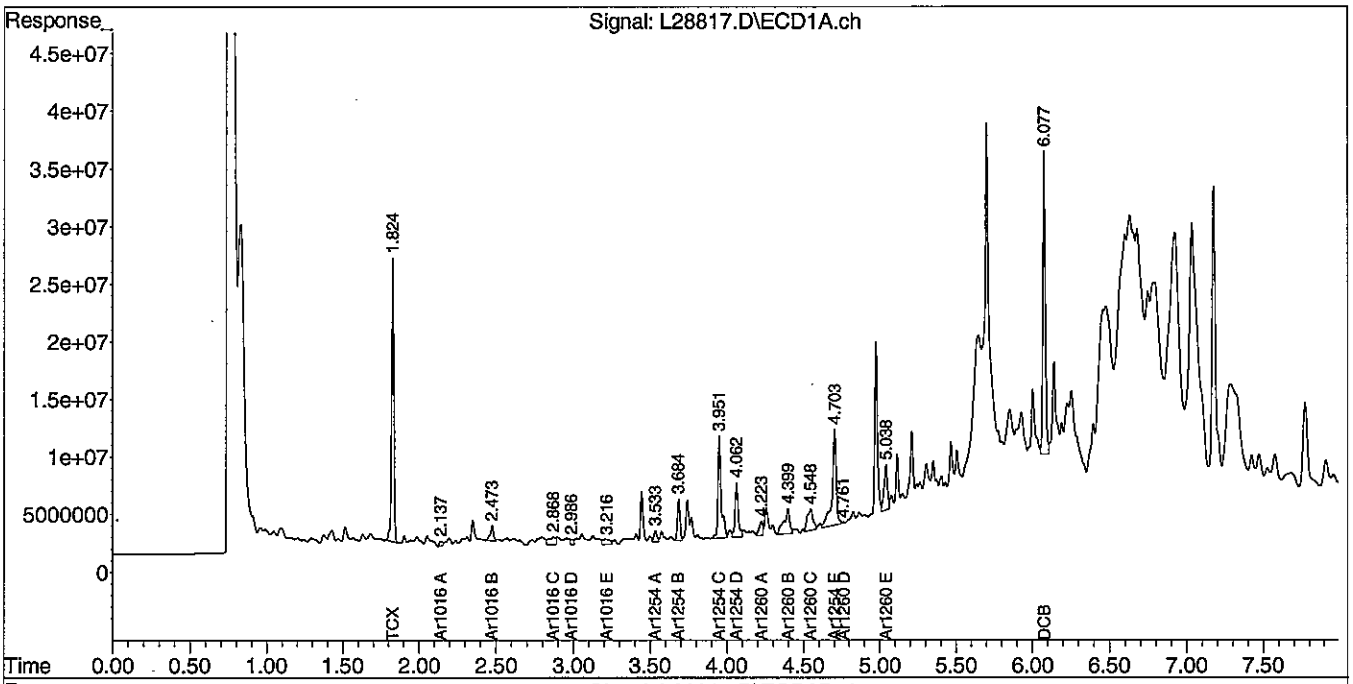
PCB Report

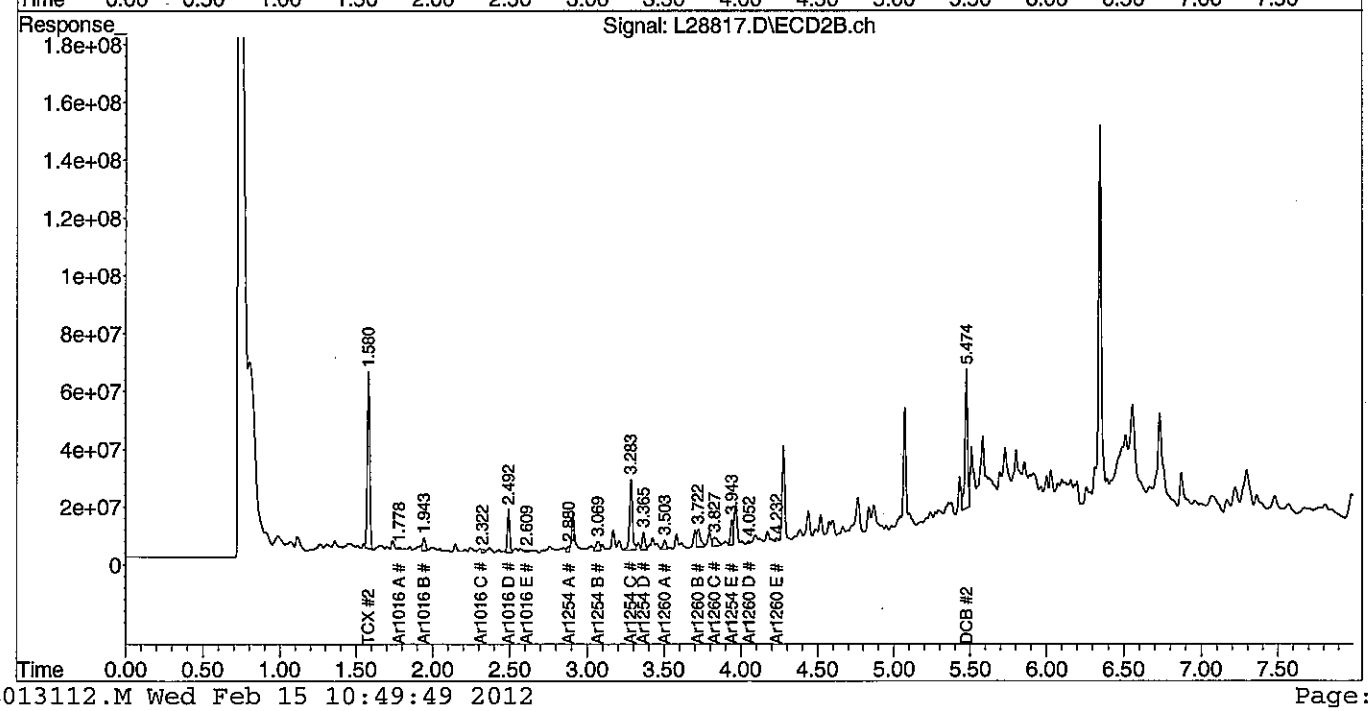
Authorized signature

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28817.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 6:57 am
Operator : AR
Sample : 72132-2,1:2,A./C
Misc : SOIL
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:49:41 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-3
Matrix:	Solid
Percent Solid:	68
Dilution Factor:	3.0
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-142

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	99	U
PCB-1221	99	U
PCB-1232	99	U
PCB-1242	99	U
PCB-1248	99	U
PCB-1254	99	**2500**
PCB-1260	99	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	67	%
Decachlorobiphenyl	60	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-3,1:2,A/C
Data File: L28818.D
Dilution Factor: 3.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	2495	2460	1.4	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

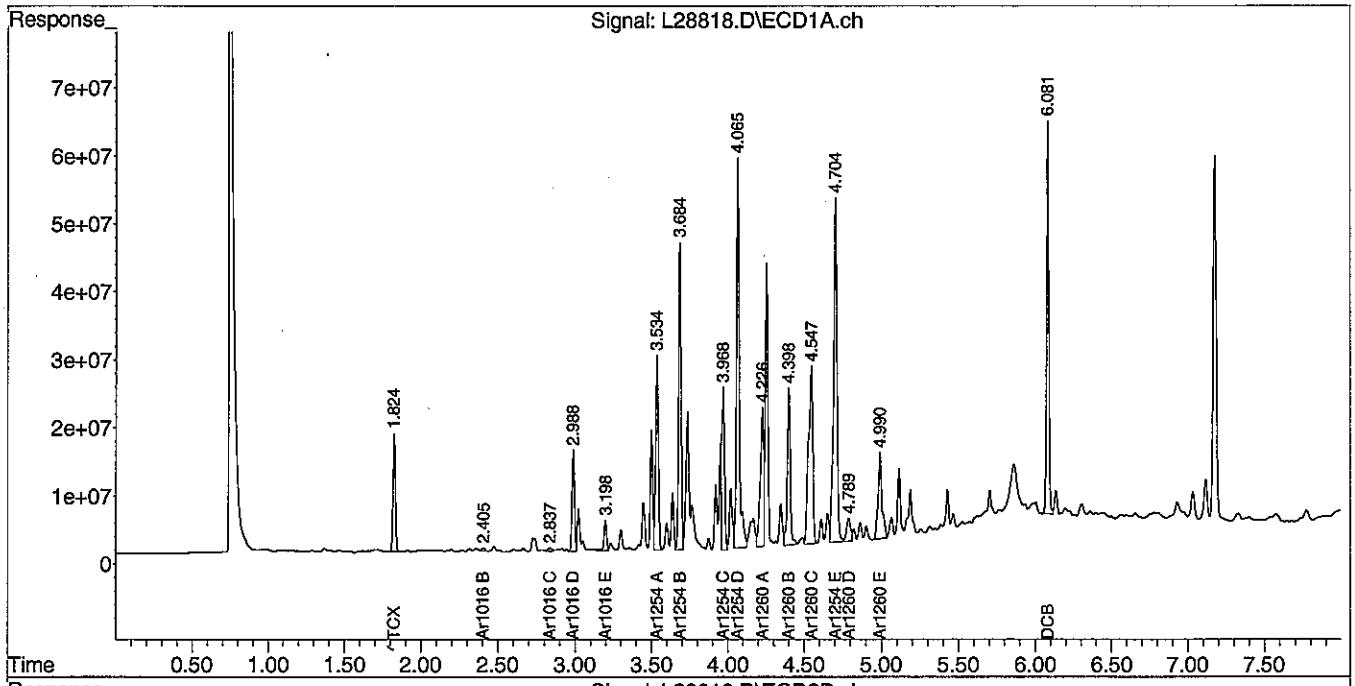
Comments: _____

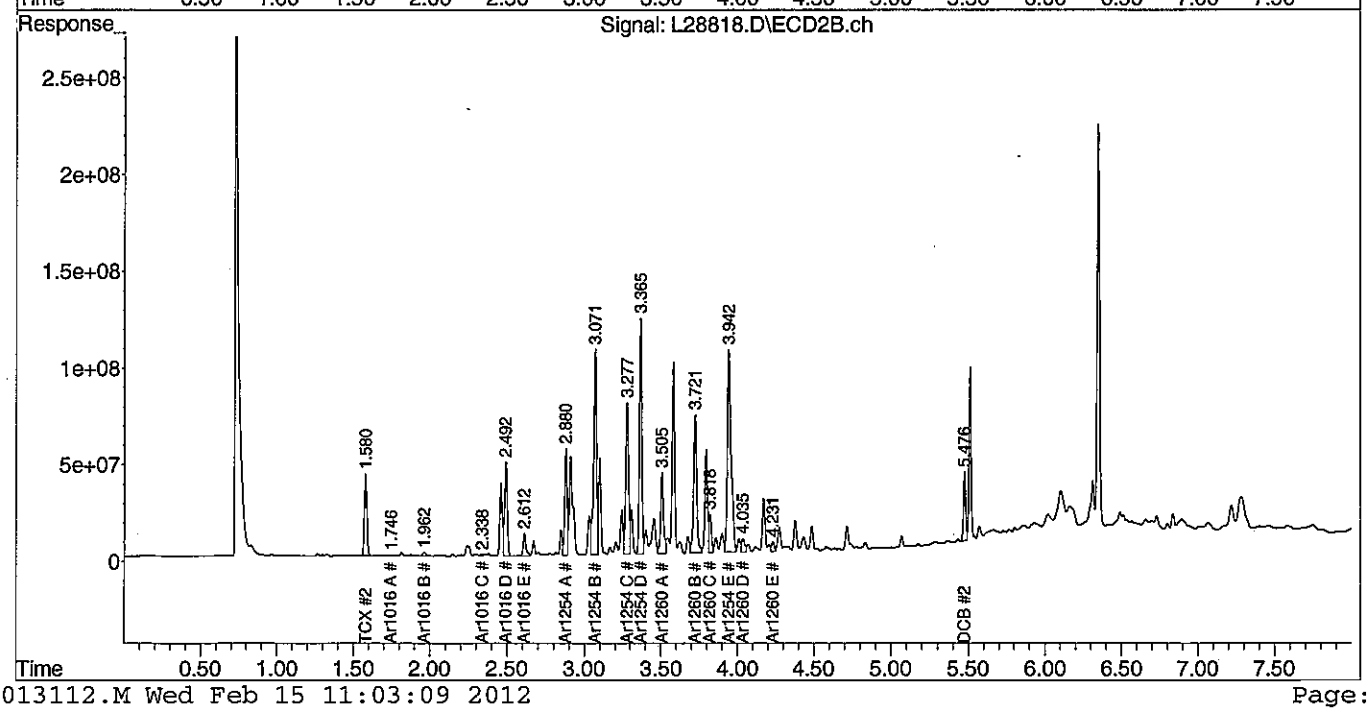
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28818.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 7:07 am
Operator : AR
Sample : 72132-3,1:2,A/C
Misc : SOIL
ALS Vial : 37 Sample Multiplier: 1

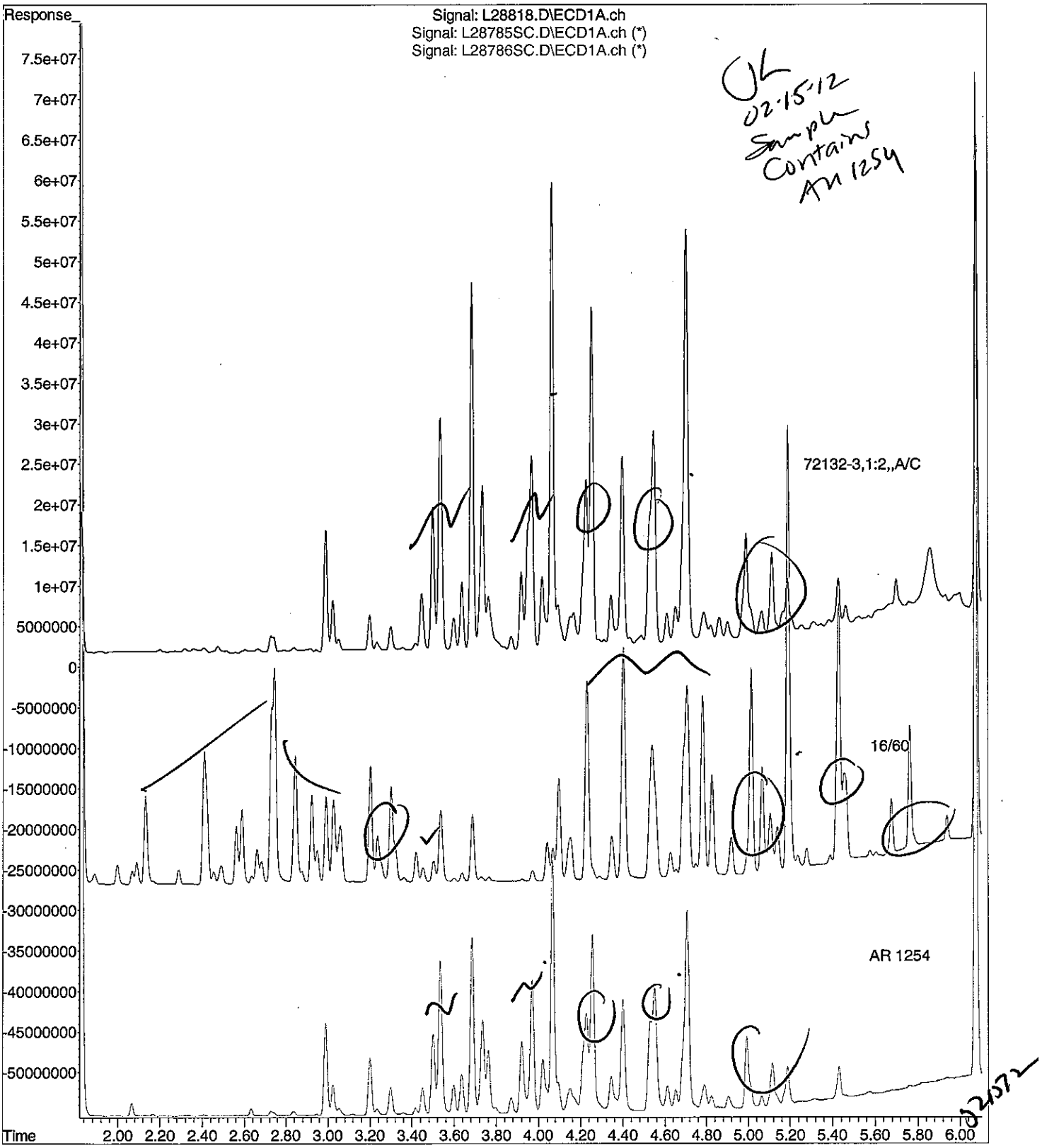
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 11:02:51 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021412-L\L28818.D
Operator : AR
Acquired : 15 Feb 2012 7:07 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72132-3,1:2,A/C
Misc Info : SOIL
Vial Number: 37



Analytics Report 72132 page 0024 of 140

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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-4
Matrix:	Solid
Percent Solid:	58
Dilution Factor:	3.2
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-143

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	106	U
PCB-1221	106	U
PCB-1232	106	U
PCB-1242	106	U
PCB-1248	106	U
PCB-1254	106	U
PCB-1260	106	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	78	%
Decachlorobiphenyl	65	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Quantitation limits increased due to the sample matrix affect.

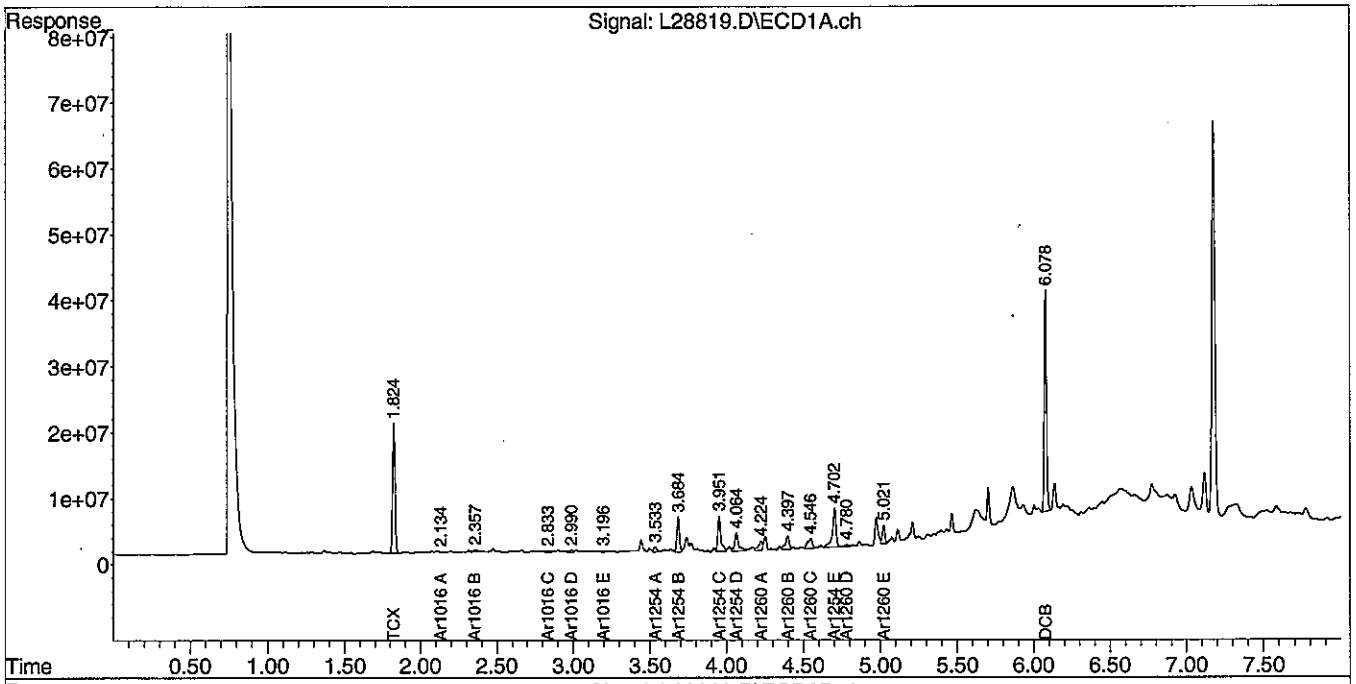
PCB Report

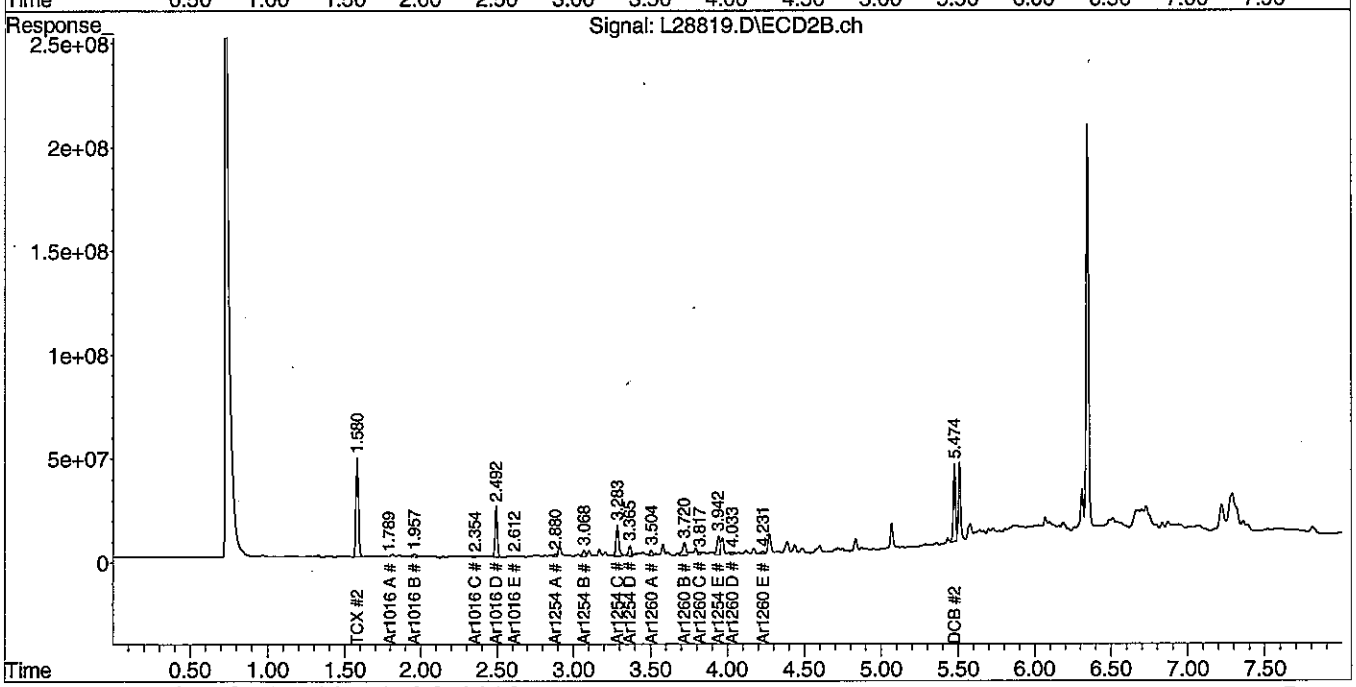
Authorized signature

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28819.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 7:18 am
Operator : AR
Sample : 72132-4,1:2,A/C
Misc : SOIL
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:51:27 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-5
Matrix:	Solid
Percent Solid:	59
Dilution Factor:	3.3
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-144

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	109	U
PCB-1221	109	U
PCB-1232	109	U
PCB-1242	109	U
PCB-1248	109	U
PCB-1254	109	**1540**
PCB-1260	109	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	72	%
Decachlorobiphenyl	64	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-5,1:2,A/C
Data File: L28820.D
Dilution Factor: 3.3

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	1544	1411	9.0	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

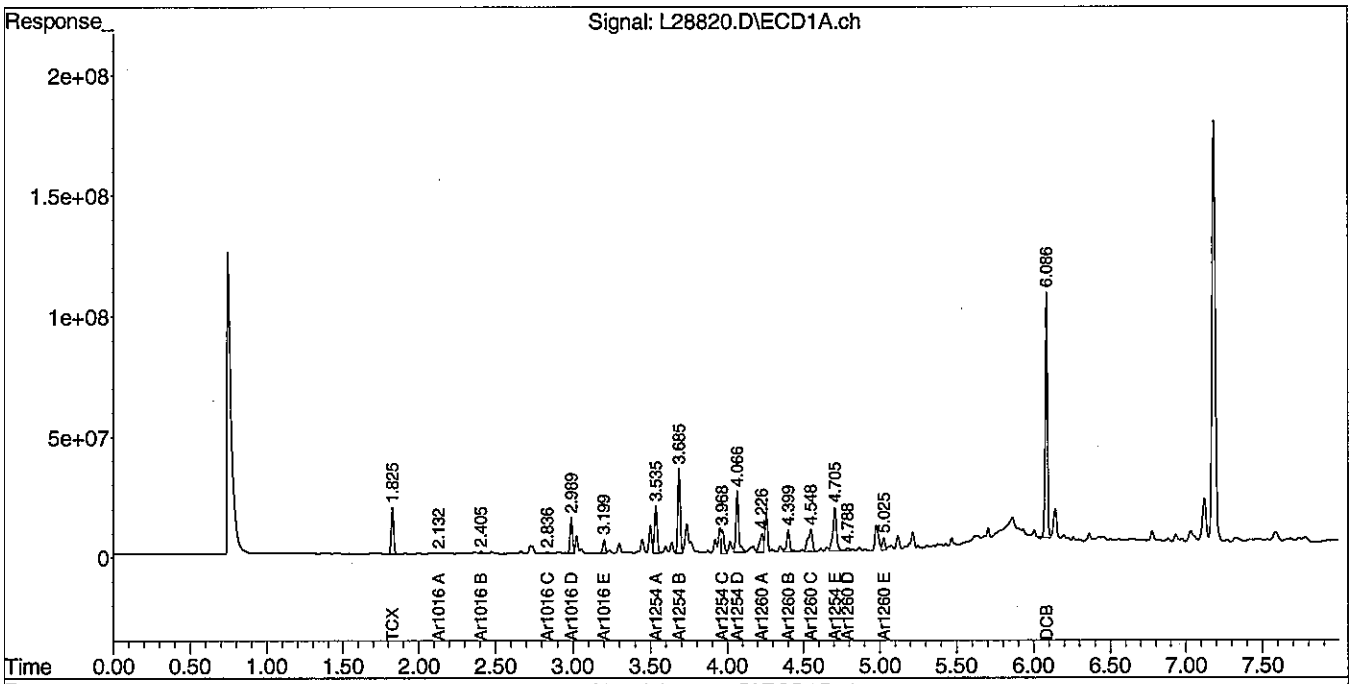
Comments: _____

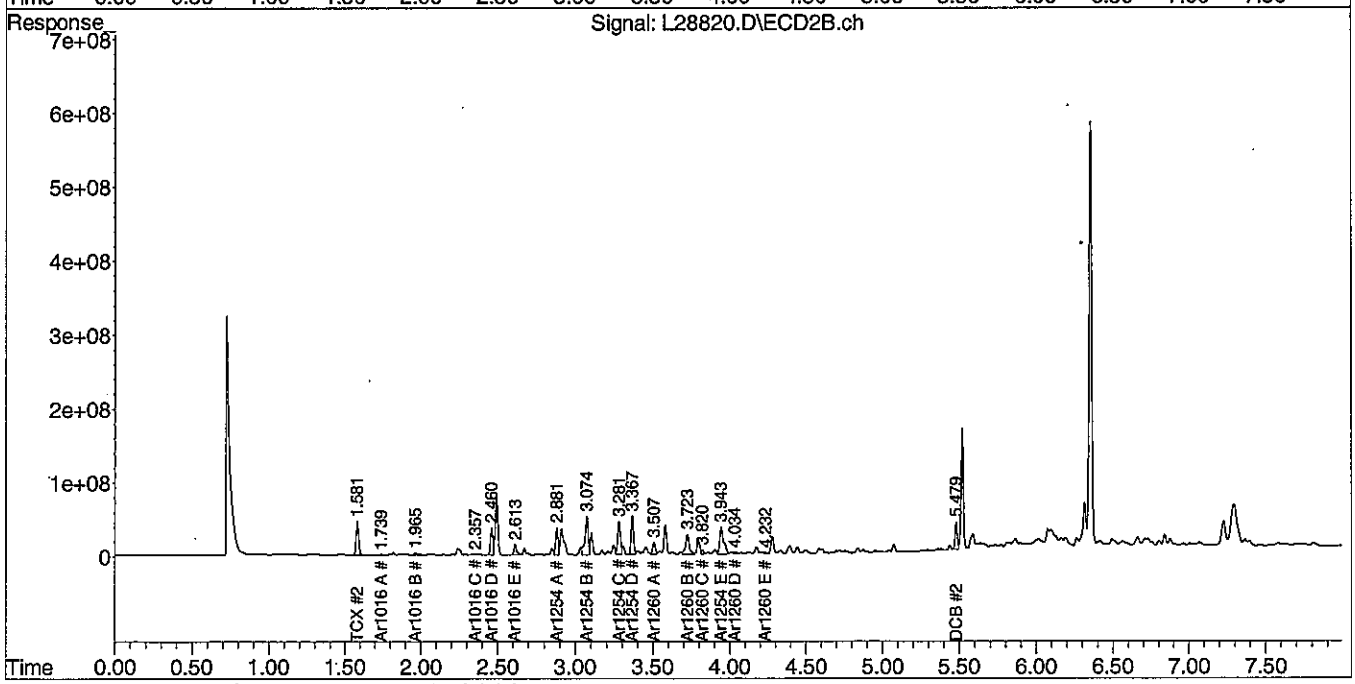
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28820.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 7:28 am
Operator : AR
Sample : 72132-5,1:2,A/C
Misc : SOIL
ALS Vial : 39 Sample Multiplier: 1

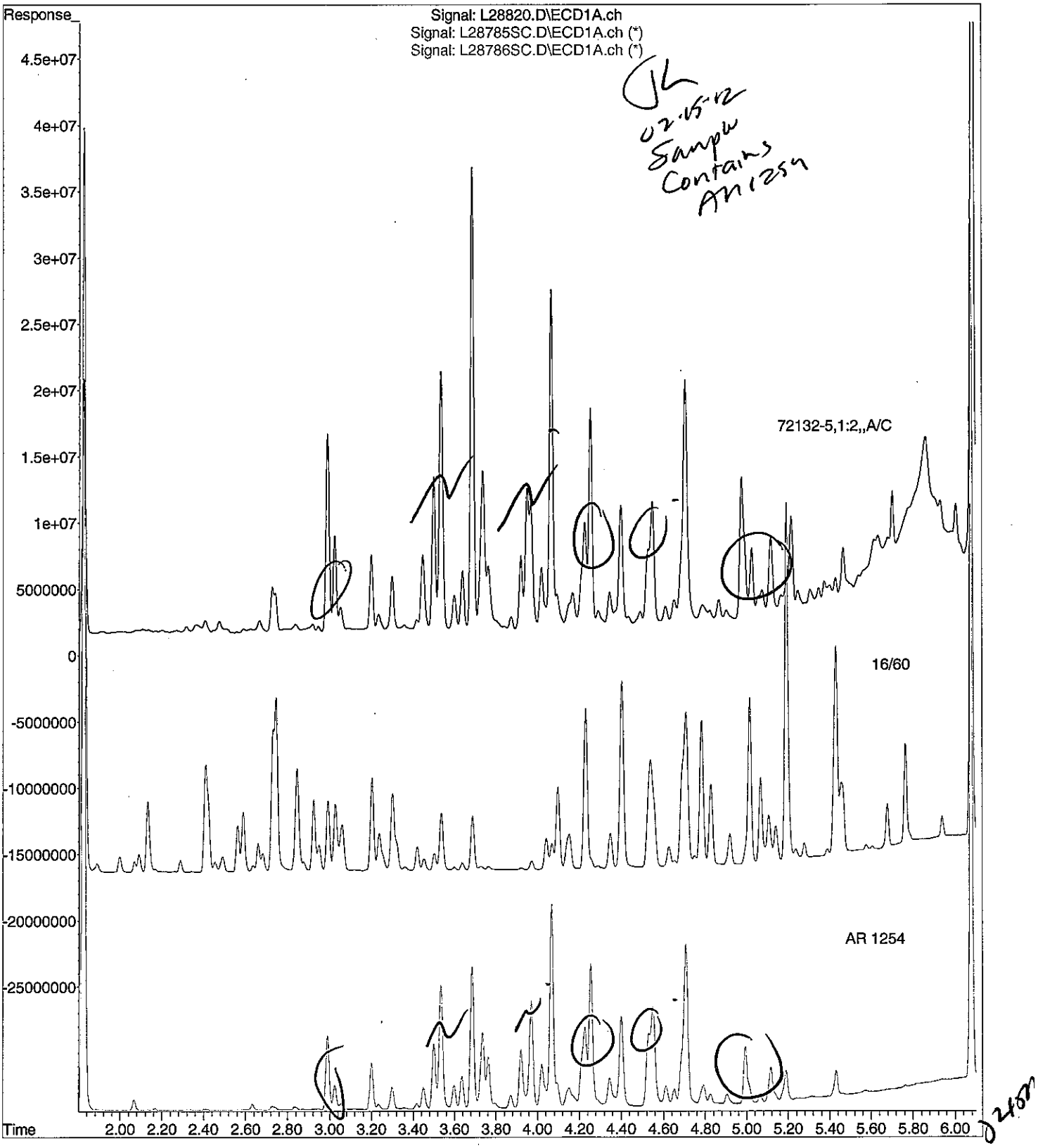
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:52:20 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021412-L\L28820.D
Operator : AR
Acquired : 15 Feb 2012 7:28 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72132-5,1:2,A/C
Misc Info : SOIL
Vial Number: 39



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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-6
Matrix:	Solid
Percent Solid:	63
Dilution Factor:	3.1
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-145

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	102	U
PCB-1221	102	U
PCB-1232	102	U
PCB-1242	102	U
PCB-1248	102	U
PCB-1254	102	U
PCB-1260	102	**213**

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	76	%
Decachlorobiphenyl	68	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-6,1:2,A/C
Data File: L28821.D
Dilution Factor: 3.1

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1260	213	181	16.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

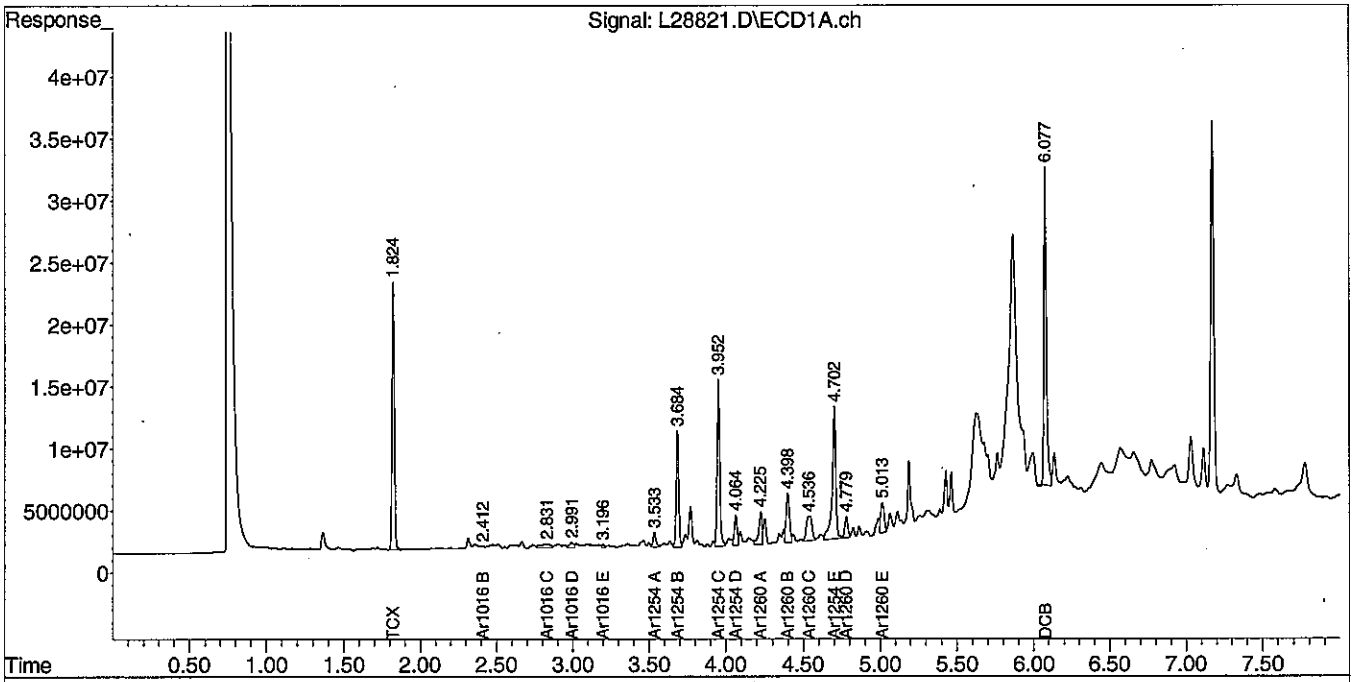
Comments: _____

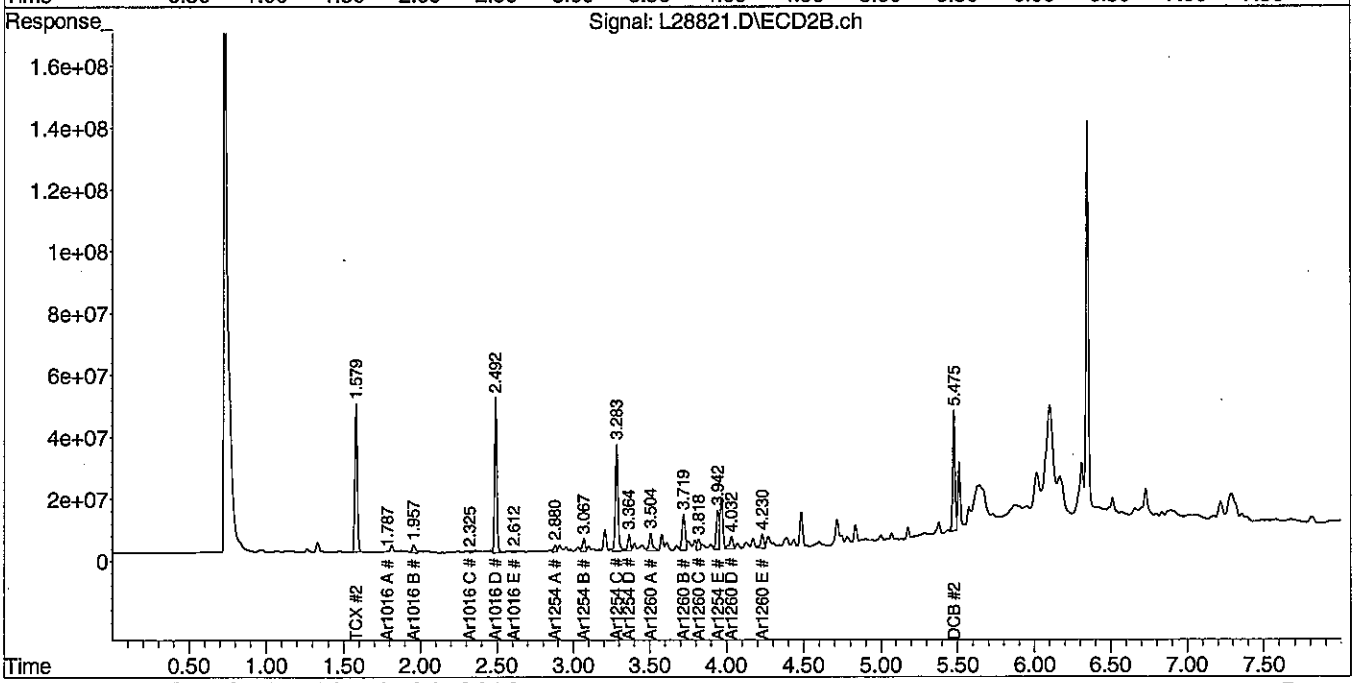
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28821.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 7:38 am
Operator : AR
Sample : 72132-6,1:2,A/C
Misc : SOIL
ALS Vial : 40 Sample Multiplier: 1

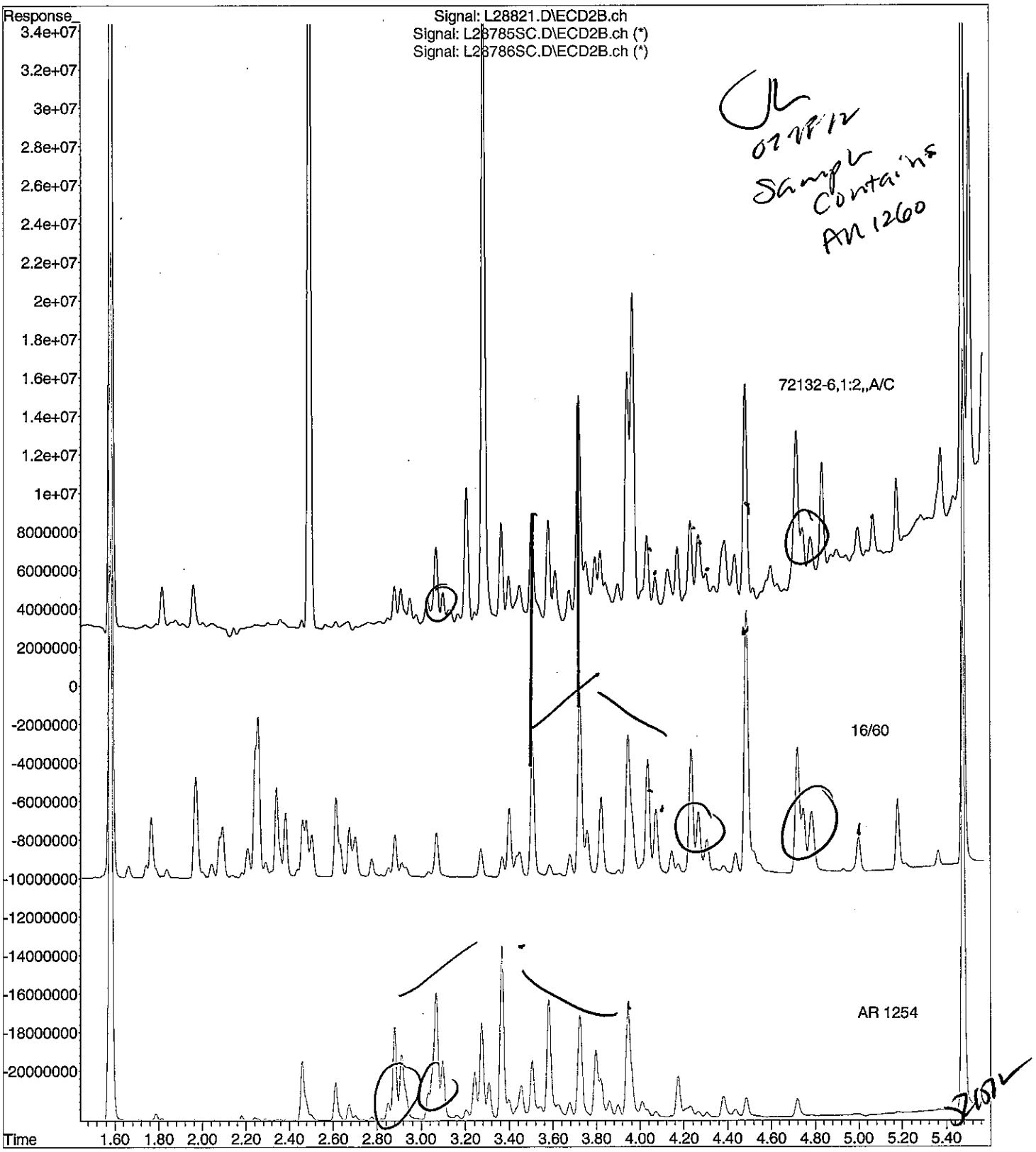
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:53:12 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021412-L\L28821.D
Operator : AR
Acquired : 15 Feb 2012 7:38 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72132-6,1:2,A/C
Misc Info : SOIL
Vial Number: 40



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analytics environmental laboratory LLC

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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-7
Matrix:	Solid
Percent Solid:	51
Dilution Factor:	3.8
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-146

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	125	U
PCB-1221	125	U
PCB-1232	125	U
PCB-1242	125	U
PCB-1248	125	U
PCB-1254	125	**682**
PCB-1260	125	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-7,1:2,A/C
Data File: L28822.D
Dilution Factor: 3.8

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	682	577	16.7	

Column to be used to flag RPD values greater than QC limit of 40%

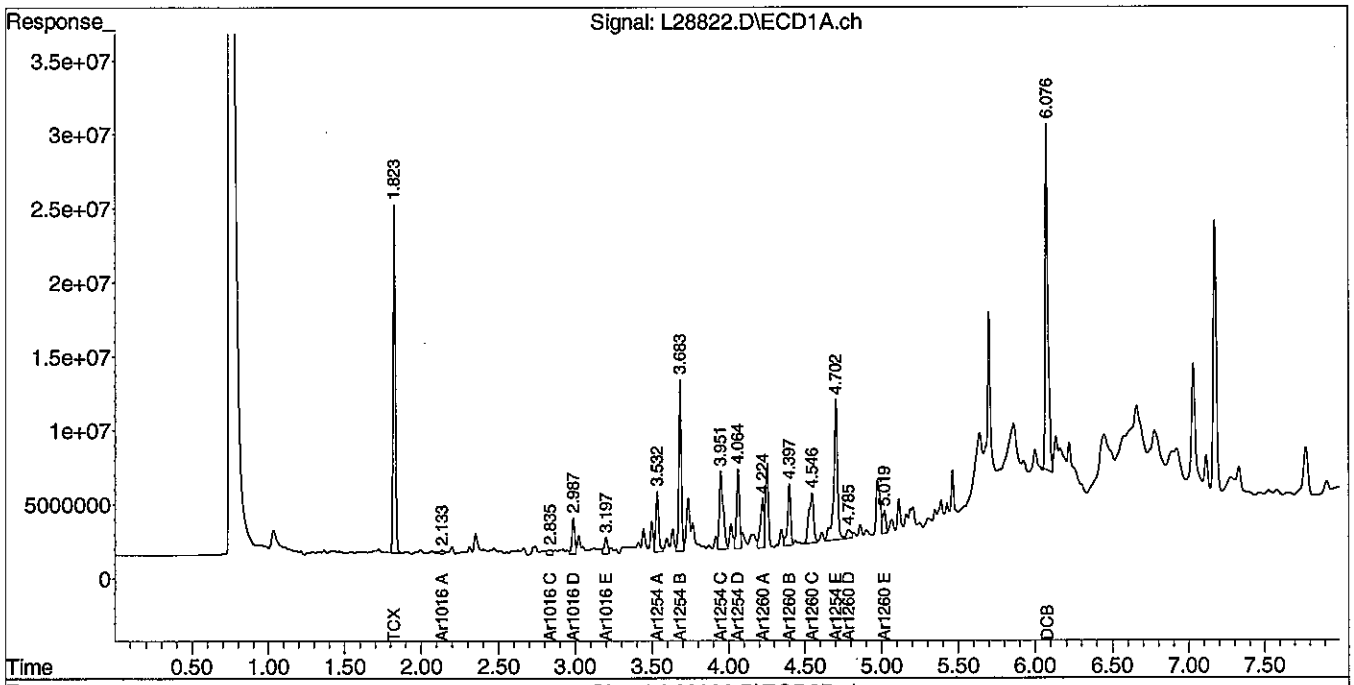
* Values outside QC limits

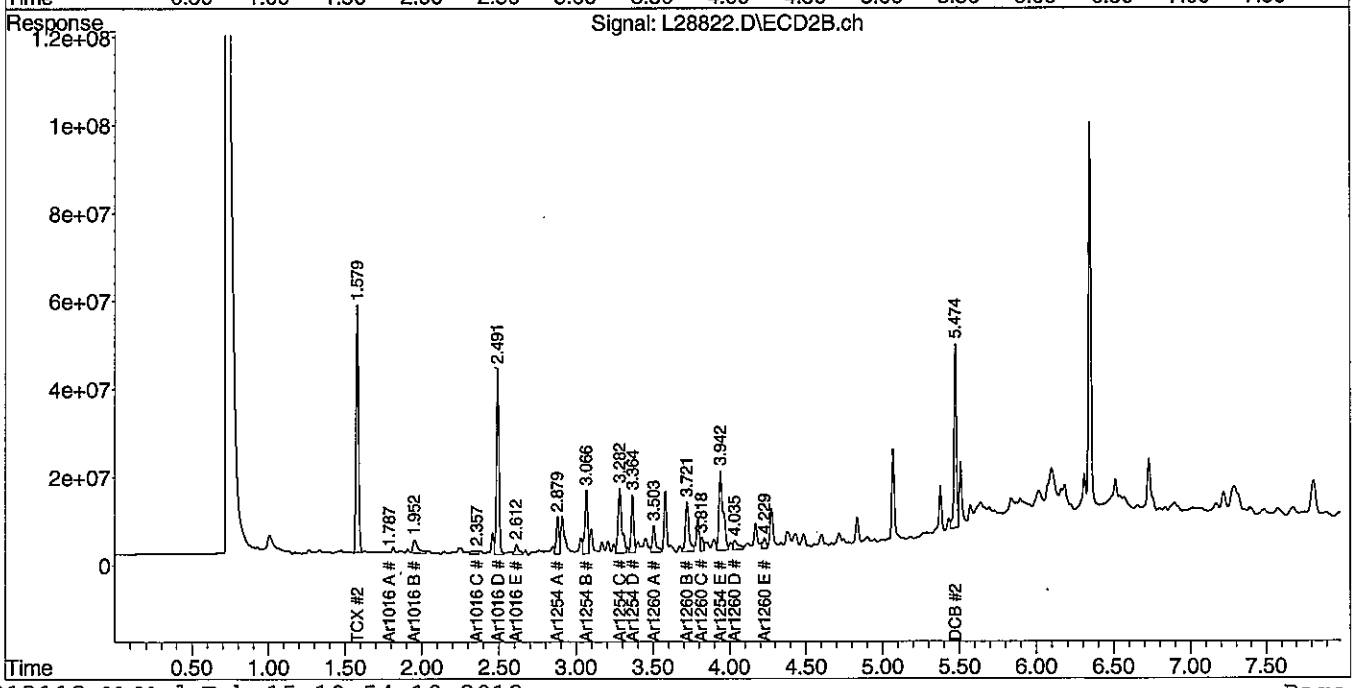
Comments: _____

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28822.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 7:49 am
Operator : AR
Sample : 72132-7,1:2,A/C
Misc : SOIL
ALS Vial : 41 Sample Multiplier: 1

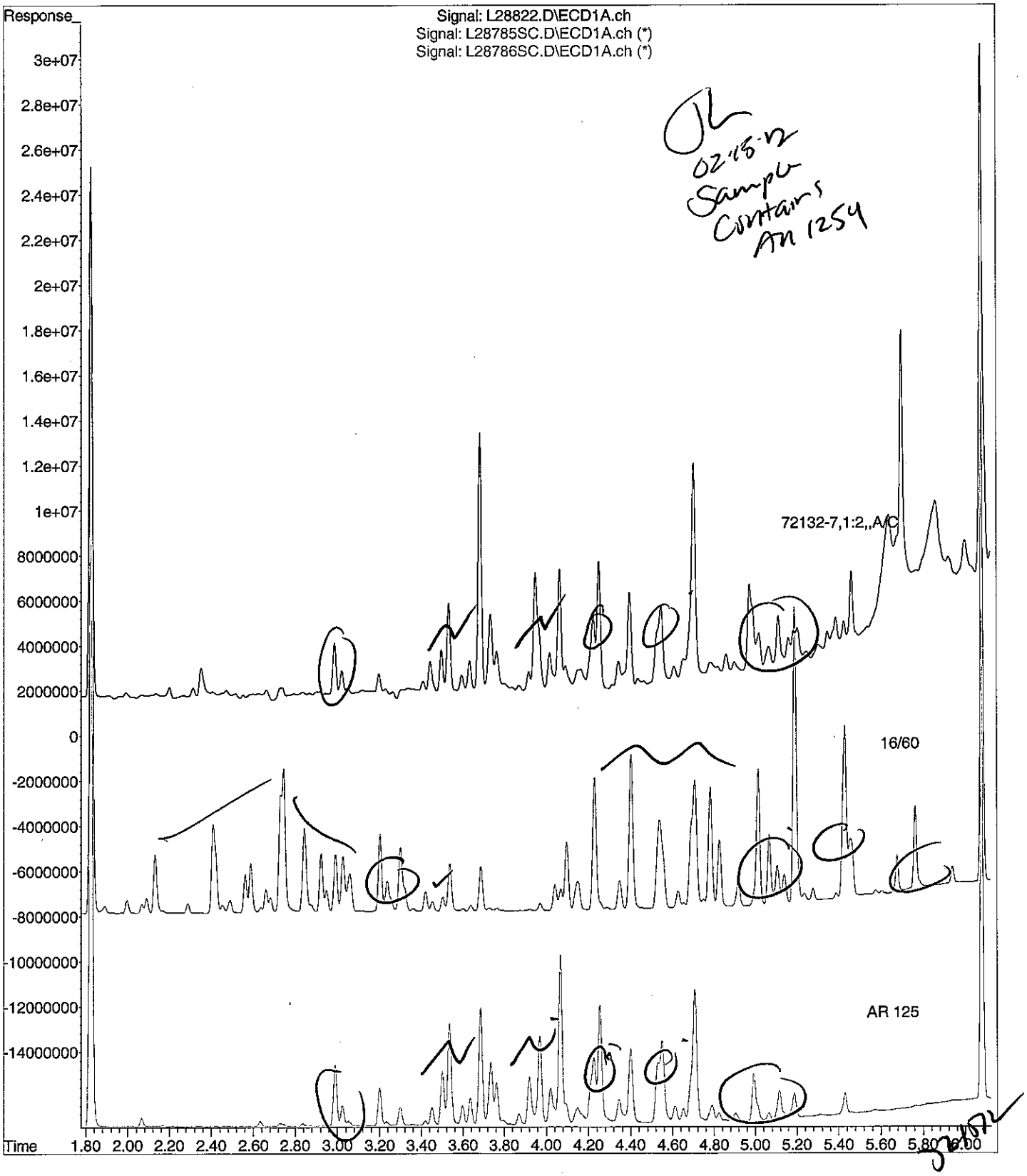
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:14:25 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021412-L\L28822.D
Operator : AR
Acquired : 15 Feb 2012 7:49 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72132-7,1:2,A/C
Misc Info : SOIL
Vial Number: 41



JL 02-18-12 Sample Contains AR 1254

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Ms. Amy Wallace
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Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-8
Matrix:	Solid
Percent Solid:	63
Dilution Factor:	3.1
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-147

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	102	U
PCB-1221	102	U
PCB-1232	102	U
PCB-1242	102	U
PCB-1248	102	U
PCB-1254	102	**1180**
PCB-1260	102	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-8,1:2,A/C
Data File: L28823.D
Dilution Factor: 3.1

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	1178	956	20.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

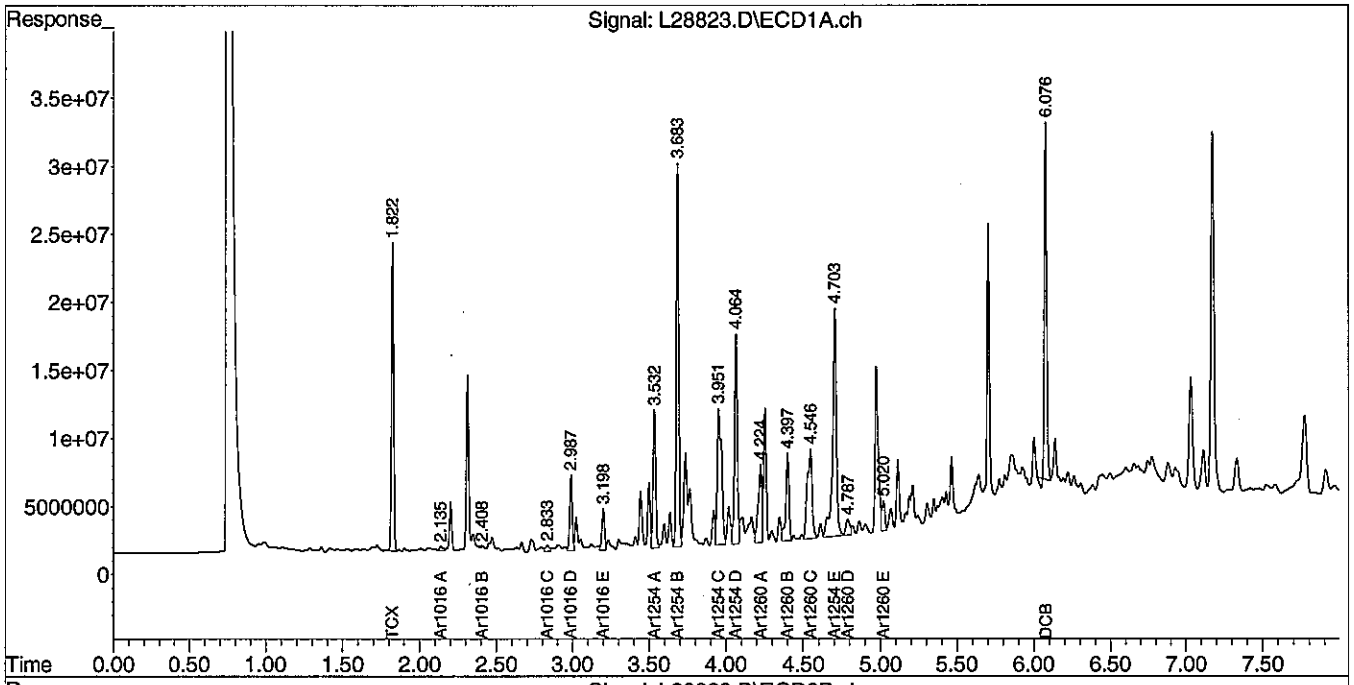
Comments: _____

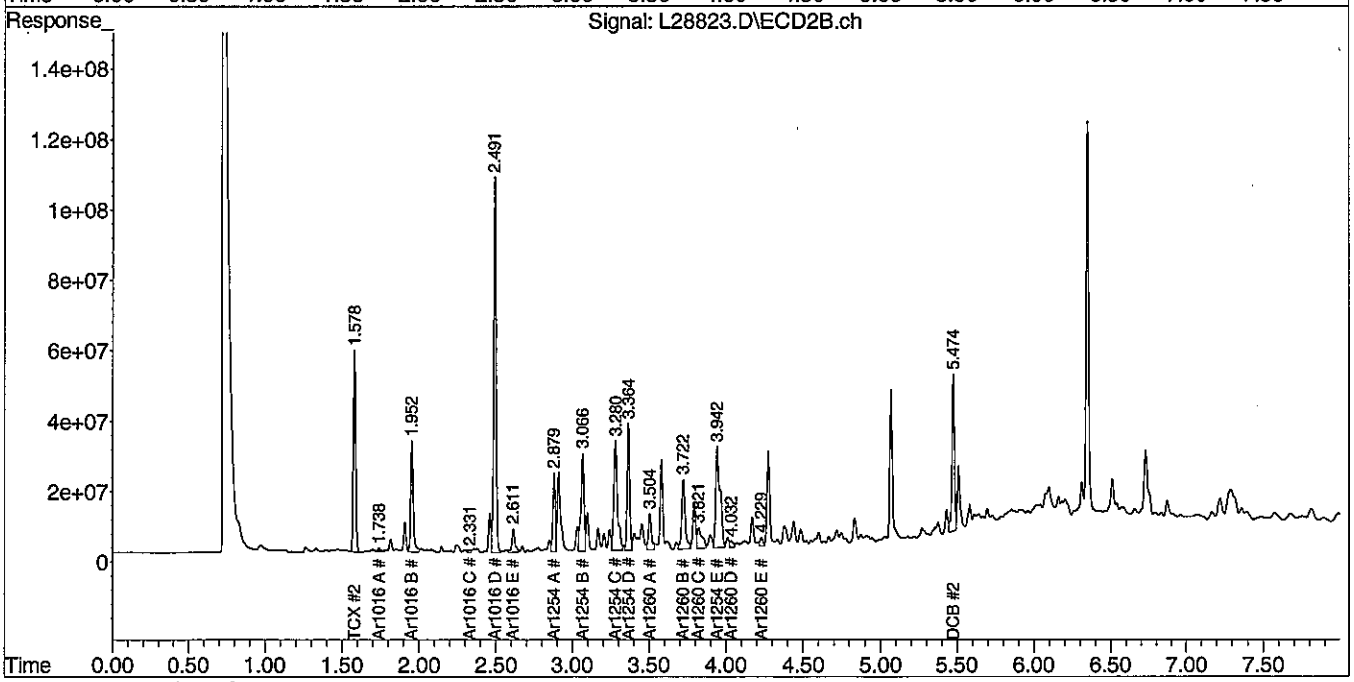
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28823.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 7:59 am
Operator : AR
Sample : 72132-8,1:2,A/C
Misc : SOIL
ALS Vial : 42 Sample Multiplier: 1

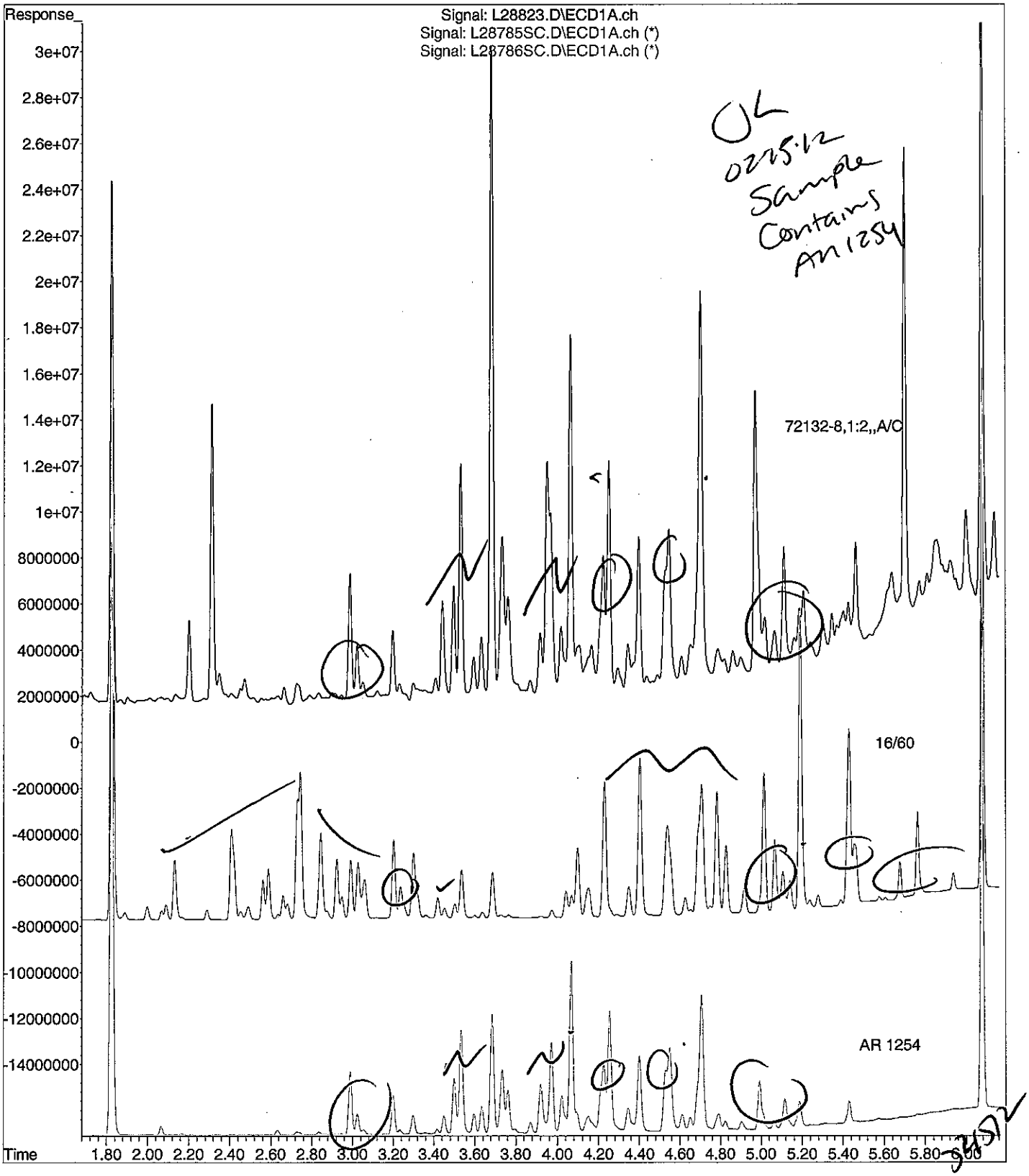
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:14:27 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021412-L\L28823.D
Operator : AR
Acquired : 15 Feb 2012 7:59 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72132-8,1:2,A/C
Misc Info : SOIL
Vial Number: 42



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Ms. Amy Wallace
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41 Hutchins Drive
Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-9
Matrix:	Solid
Percent Solid:	50
Dilution Factor:	3.8
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-148

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	125	U
PCB-1221	125	U
PCB-1232	125	U
PCB-1242	125	U
PCB-1248	125	U
PCB-1254	125	U
PCB-1260	125	**340**

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	77	%
Decachlorobiphenyl	70	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-9,1:2,A/C
Data File: L28824.D
Dilution Factor: 3.8

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1260	340	314	7.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

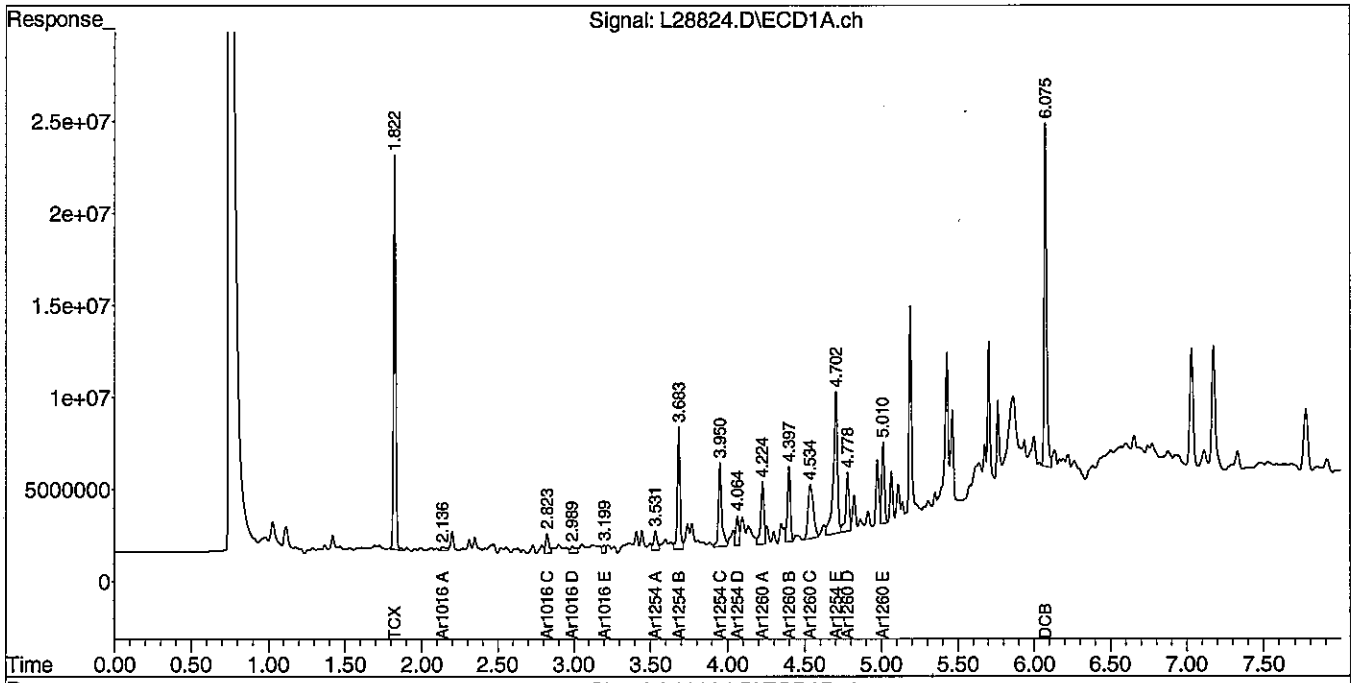
Comments: _____

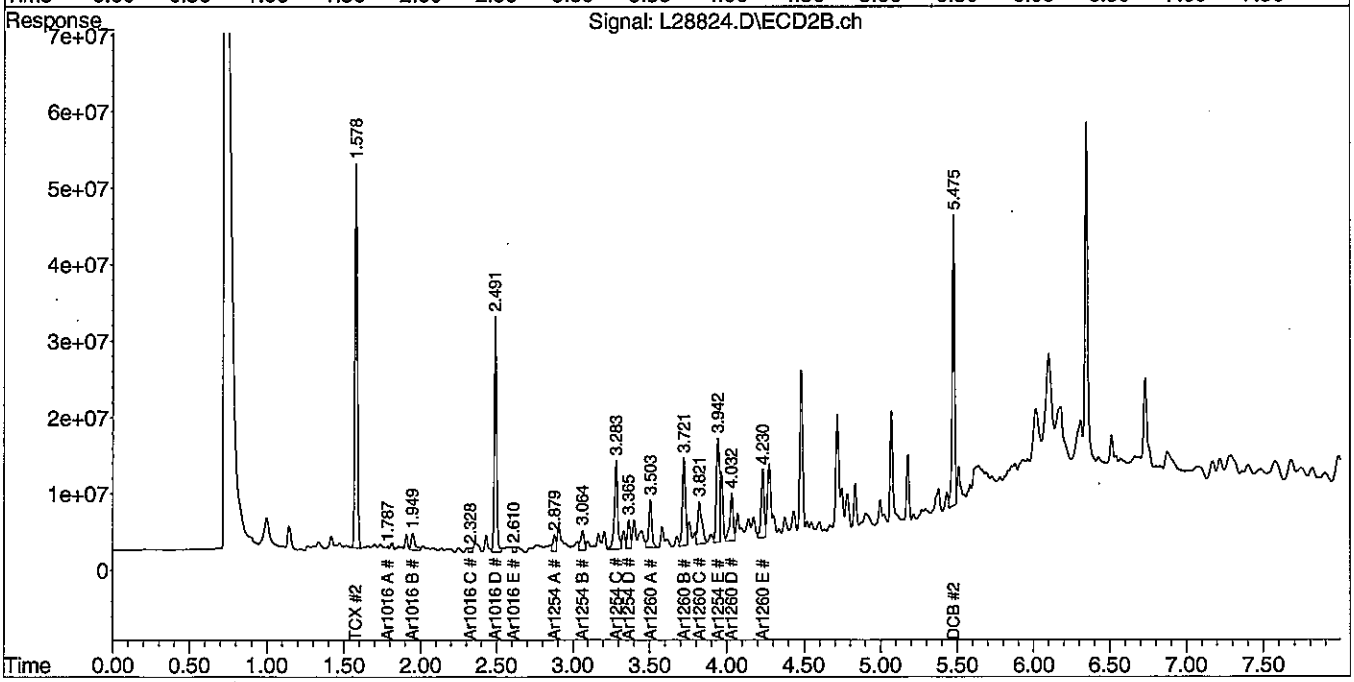
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28824.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 8:09 am
Operator : AR
Sample : 72132-9,1:2,A/C
Misc : SOIL
ALS Vial : 43 Sample Multiplier: 1

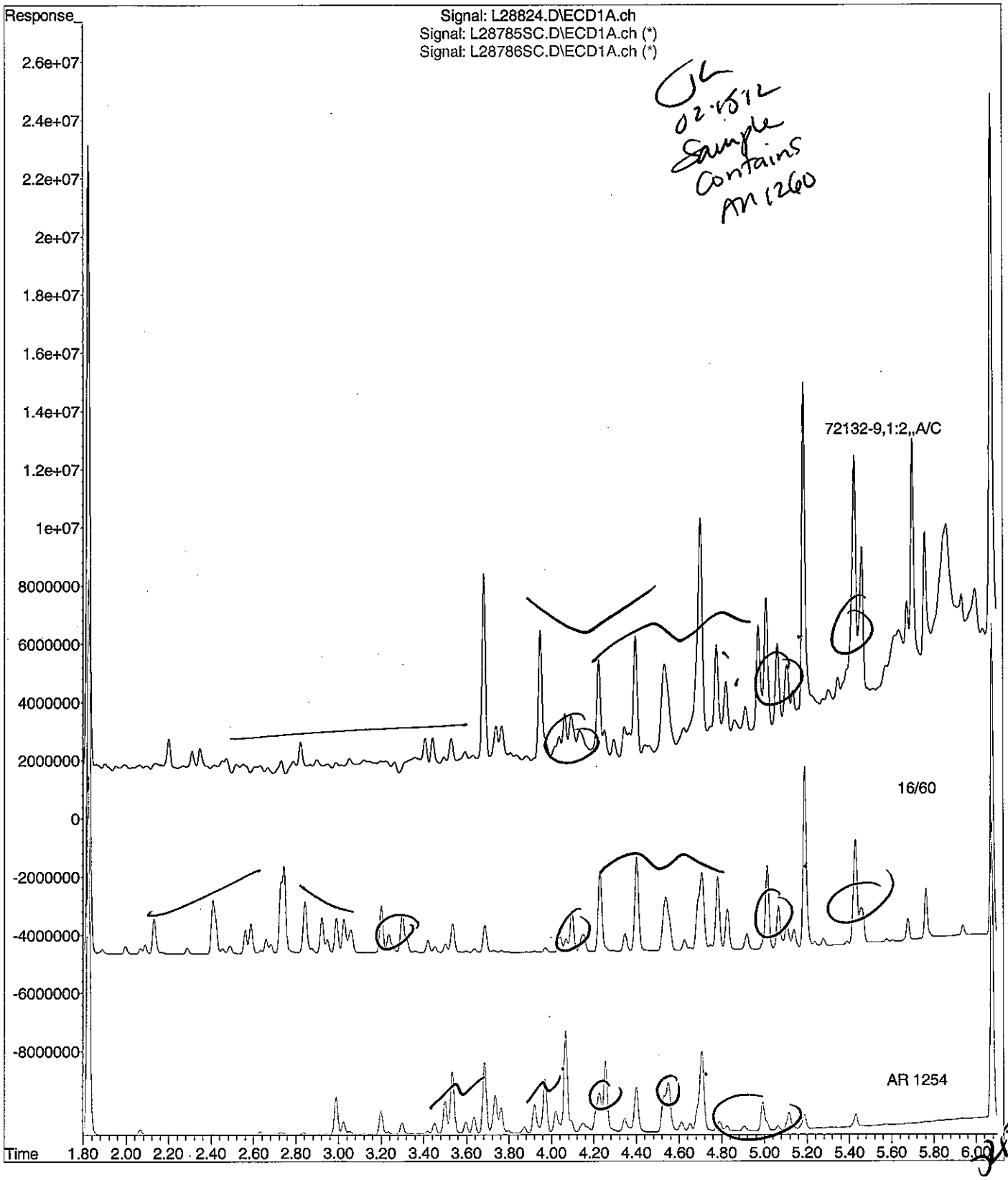
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:14:29 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021412-L\L28824.D
Operator : AR
Acquired : 15 Feb 2012 8:09 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72132-9,1:2,A/C
Misc Info : SOIL
Vial Number: 43



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Ms. Amy Wallace
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Portland ME 04102

February 14, 2012

SAMPLE DATA

Lab Sample ID:	72132-10
Matrix:	Solid
Percent Solid:	37
Dilution Factor:	2.7
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/13/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-149

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	89	U
PCB-1221	89	U
PCB-1232	89	U
PCB-1242	89	U
PCB-1248	89	U
PCB-1254	89	U
PCB-1260	89	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	114	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

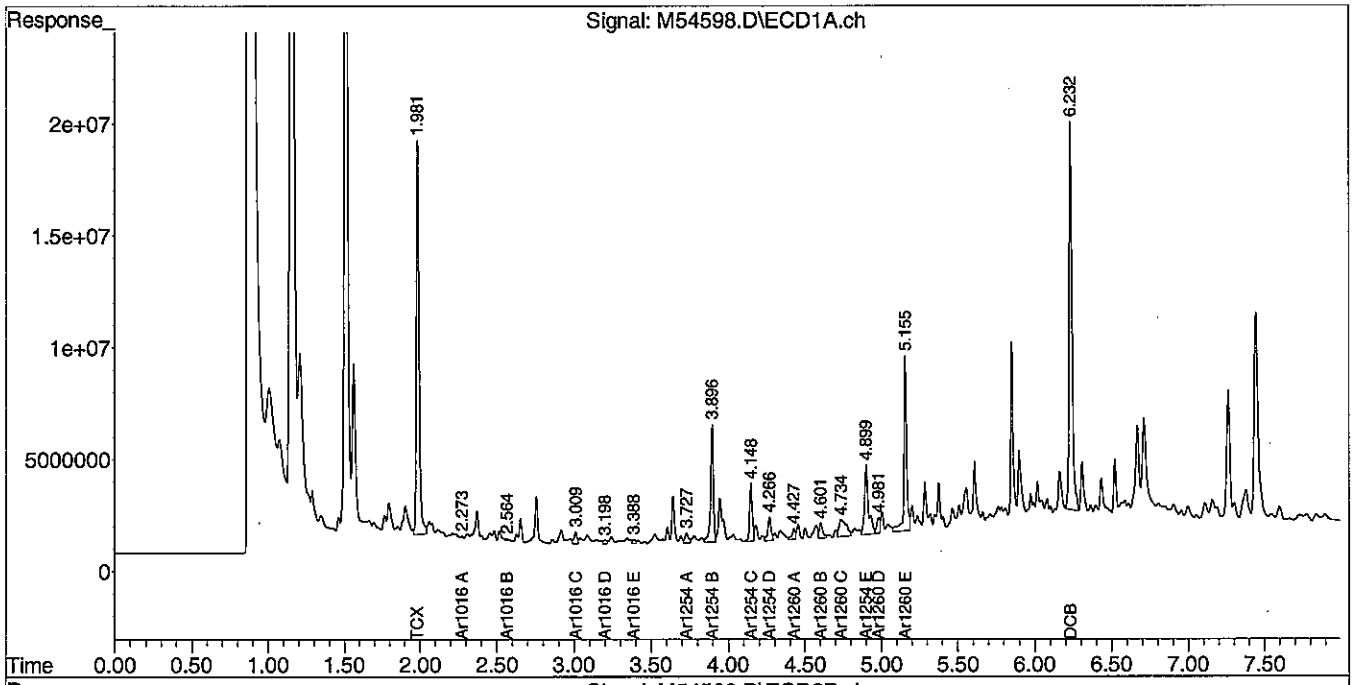
PCB Report

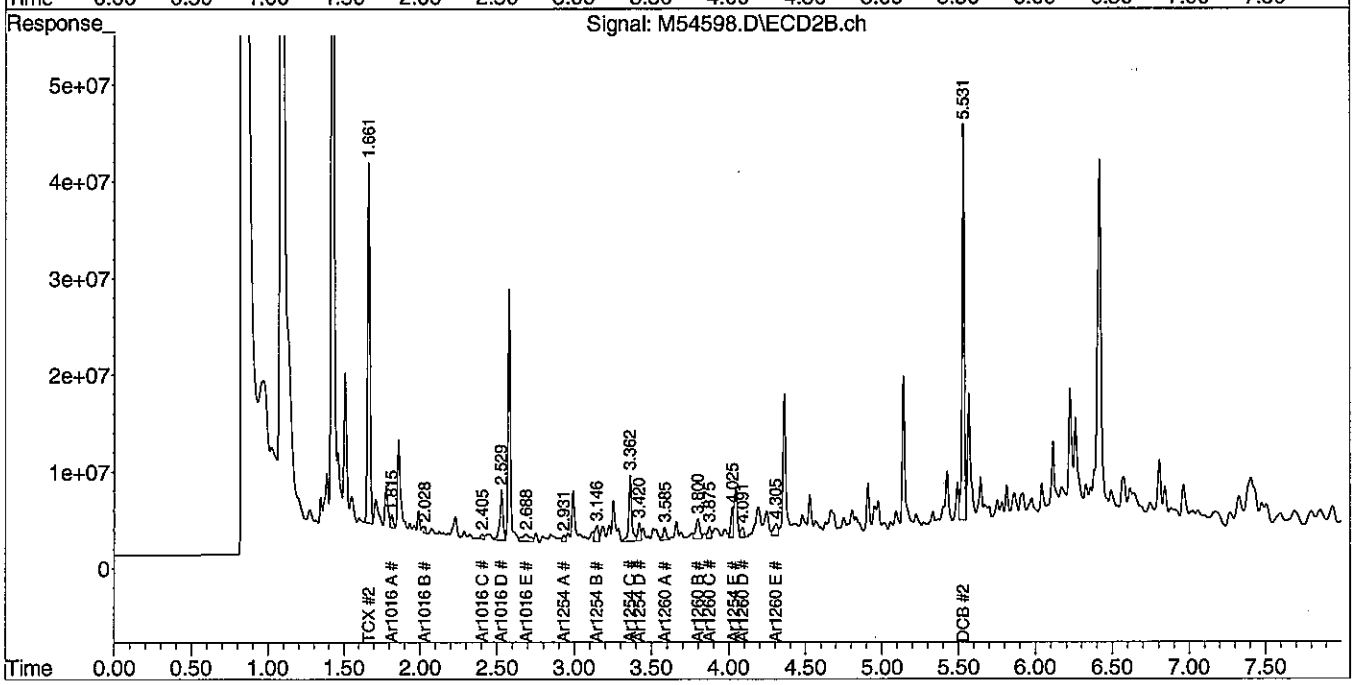
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54598.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 11:26 am
Operator : JK
Sample : 72132-10,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 14 15:56:03 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 14:07:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
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Portland ME 04102

February 14, 2012

SAMPLE DATA

Lab Sample ID:	72132-11
Matrix:	Solid
Percent Solid:	100
Dilution Factor:	1.0
Collection Date:	02/01/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/13/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBB-122

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**451**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	74	%
Decachlorobiphenyl	63	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-11,,A/C
Data File: M54599.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	432	451	4.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

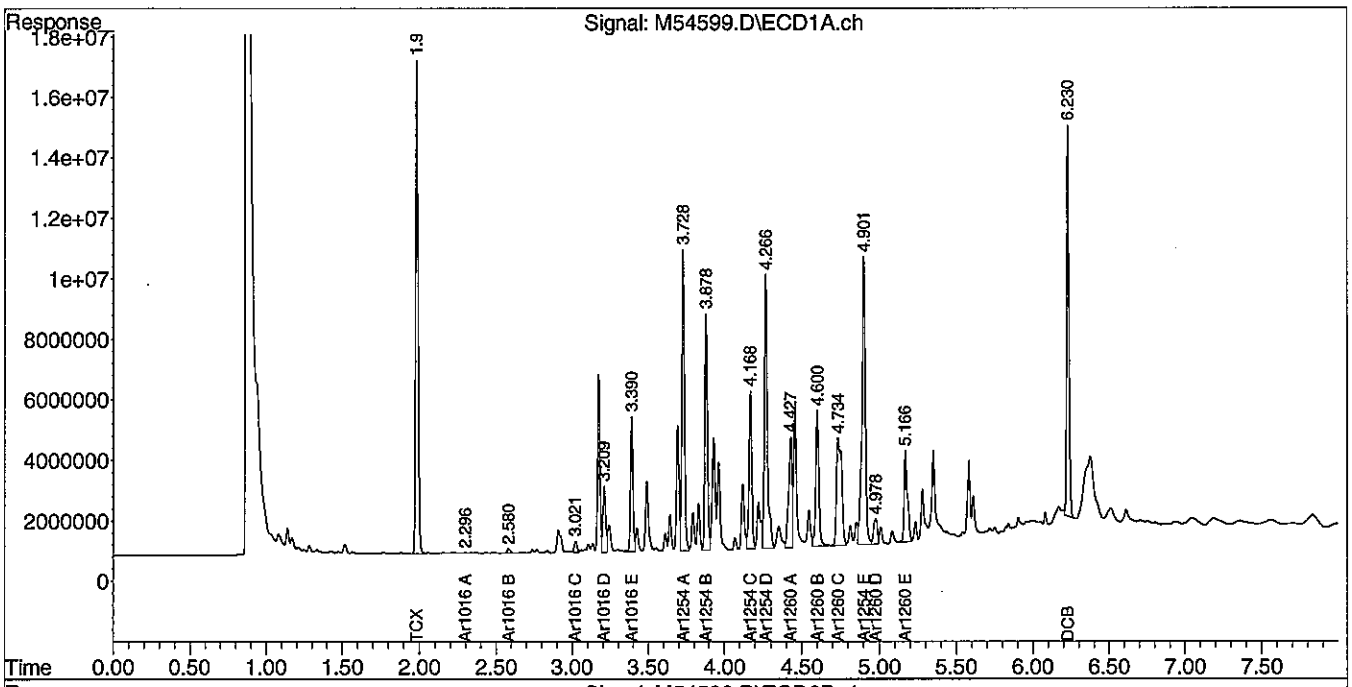
Comments: _____

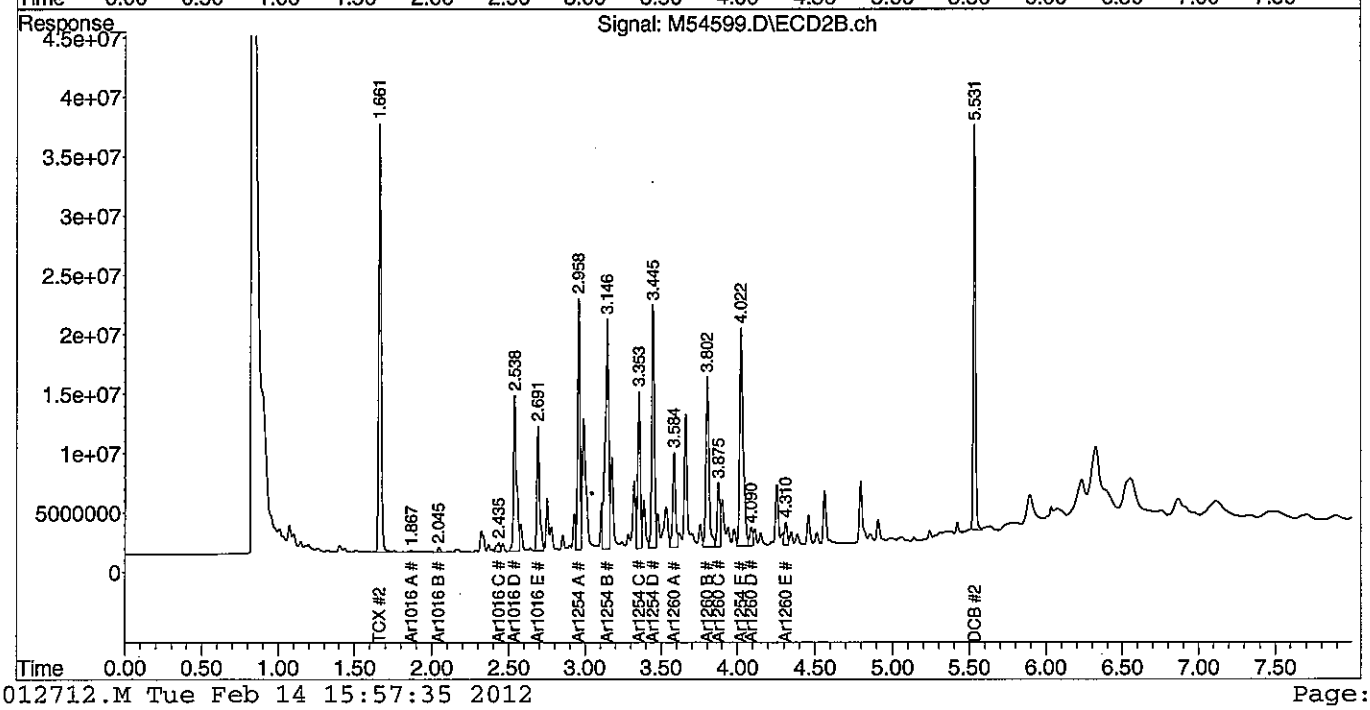
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54599.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 11:36 am
Operator : JK
Sample : 72132-11,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

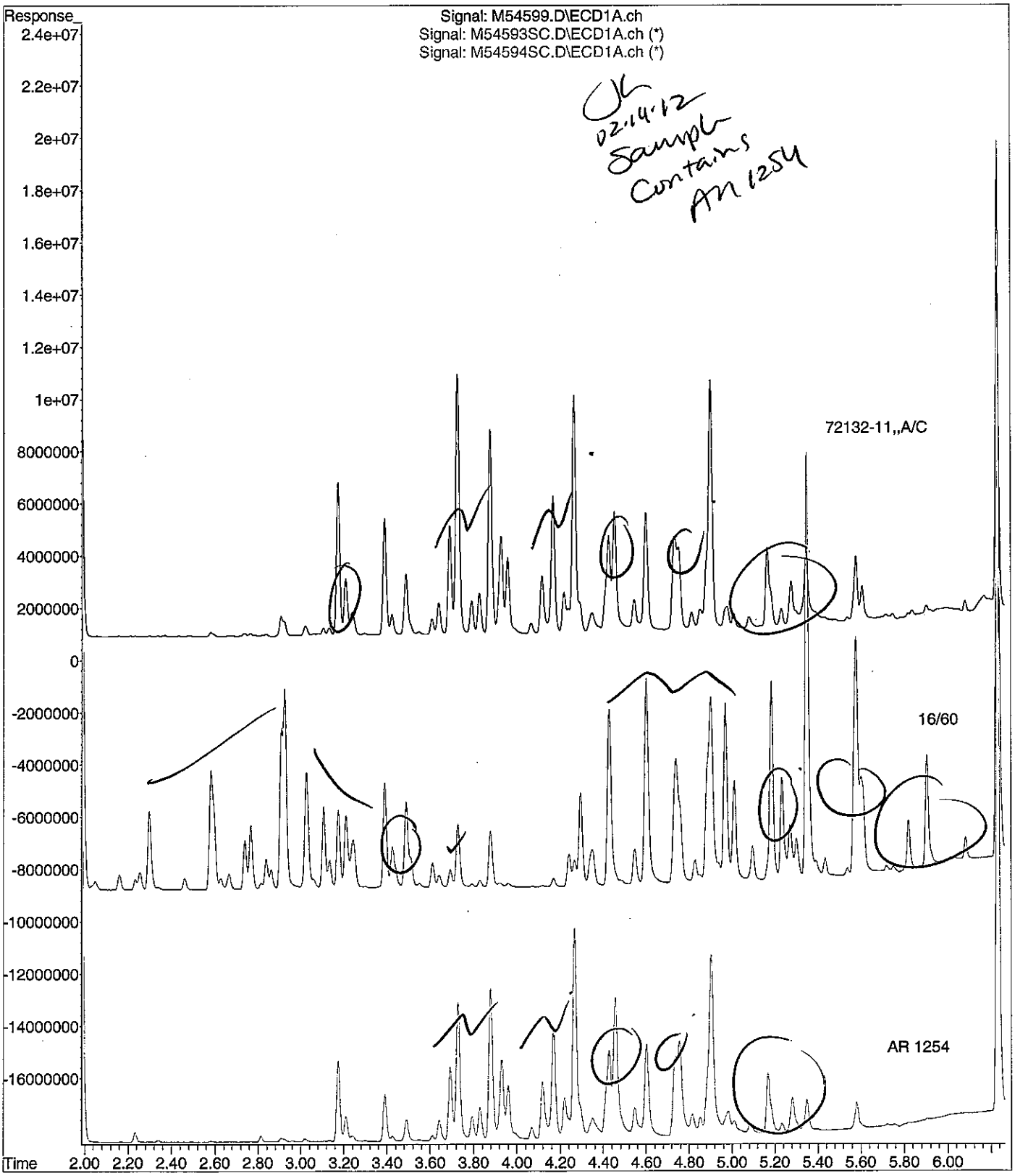
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 14 15:57:20 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 15:56:37 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021312-M\M54599.D
Operator : JK
Acquired : 13 Feb 2012 11:36 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72132-11,,A/C
Misc Info : SOIL
Vial Number: 10



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Ms. Amy Wallace
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41 Hutchins Drive
Portland ME 04102

February 14, 2012

SAMPLE DATA

Lab Sample ID:	72132-12
Matrix:	Solid
Percent Solid:	95
Dilution Factor:	1.0
Collection Date:	02/01/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/13/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBC-123

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**432**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	76	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angeline Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-12,,A/C
Data File: M54600.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	432	399	7.9	

Column to be used to flag RPD values greater than QC limit of 40%

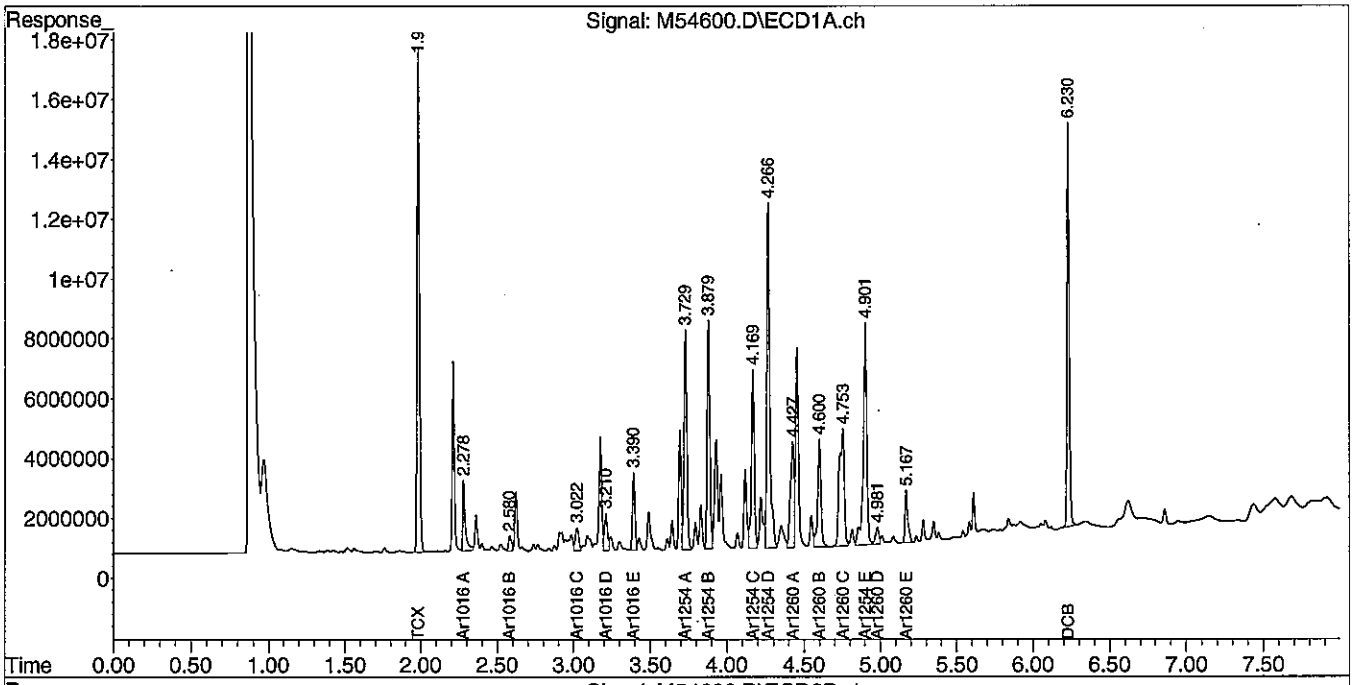
* Values outside QC limits

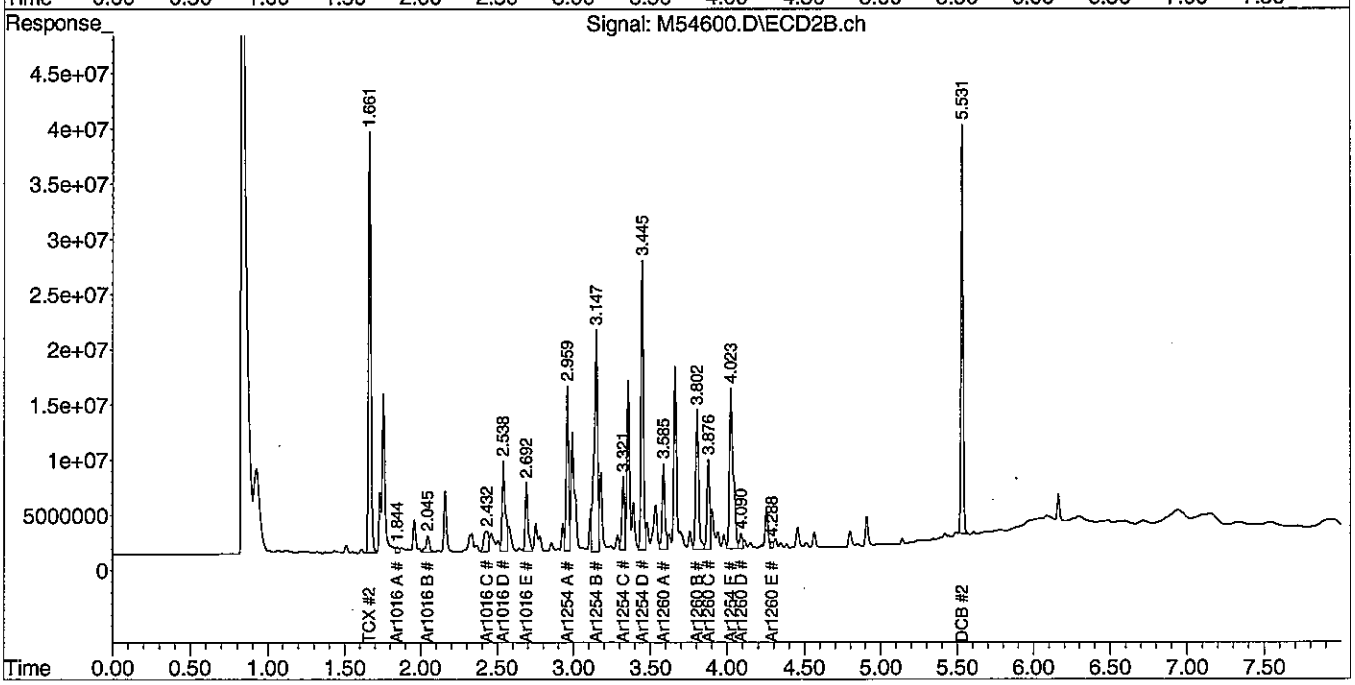
Comments: _____

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54600.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 11:46 am
Operator : JK
Sample : 72132-12,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

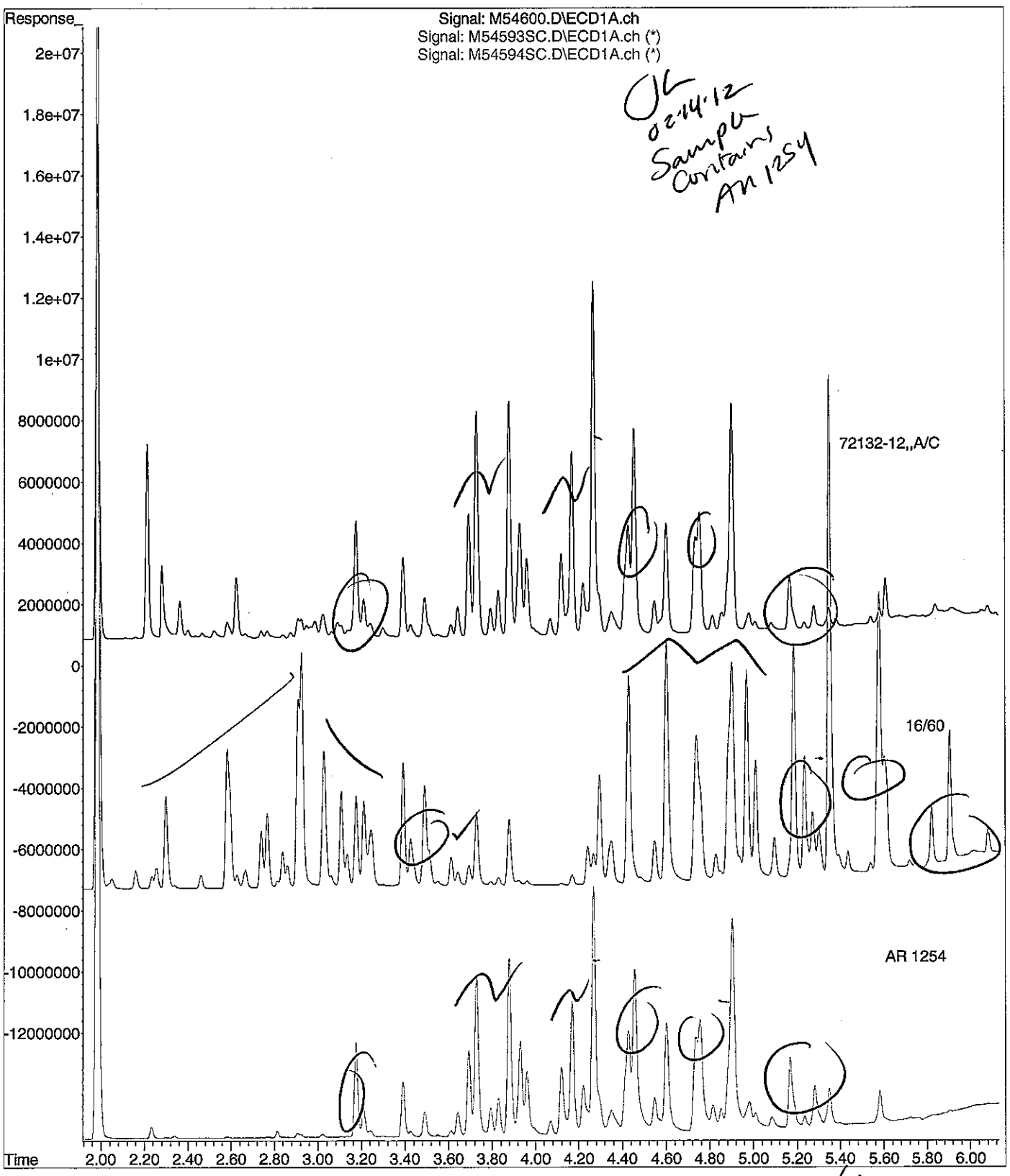
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 14 16:15:42 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 14:07:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021312-M\M54600.D
Operator : JK
Acquired : 13 Feb 2012 11:46 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72132-12,,A/C
Misc Info : SOIL
Vial Number: 11



JK 2/15/12

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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 14, 2012

SAMPLE DATA

Lab Sample ID: 72132-13
Matrix: Solid
Percent Solid: 99
Dilution Factor: 1.0
Collection Date: 02/01/12
Lab Receipt Date: 02/08/12
Extraction Date: 02/09/12
Analysis Date: 02/13/12

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons
Project Number: 222822
Field Sample ID: UMSC-VBC-124

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**401**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-13,,A/C
Data File: M54601.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	401	373	7.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

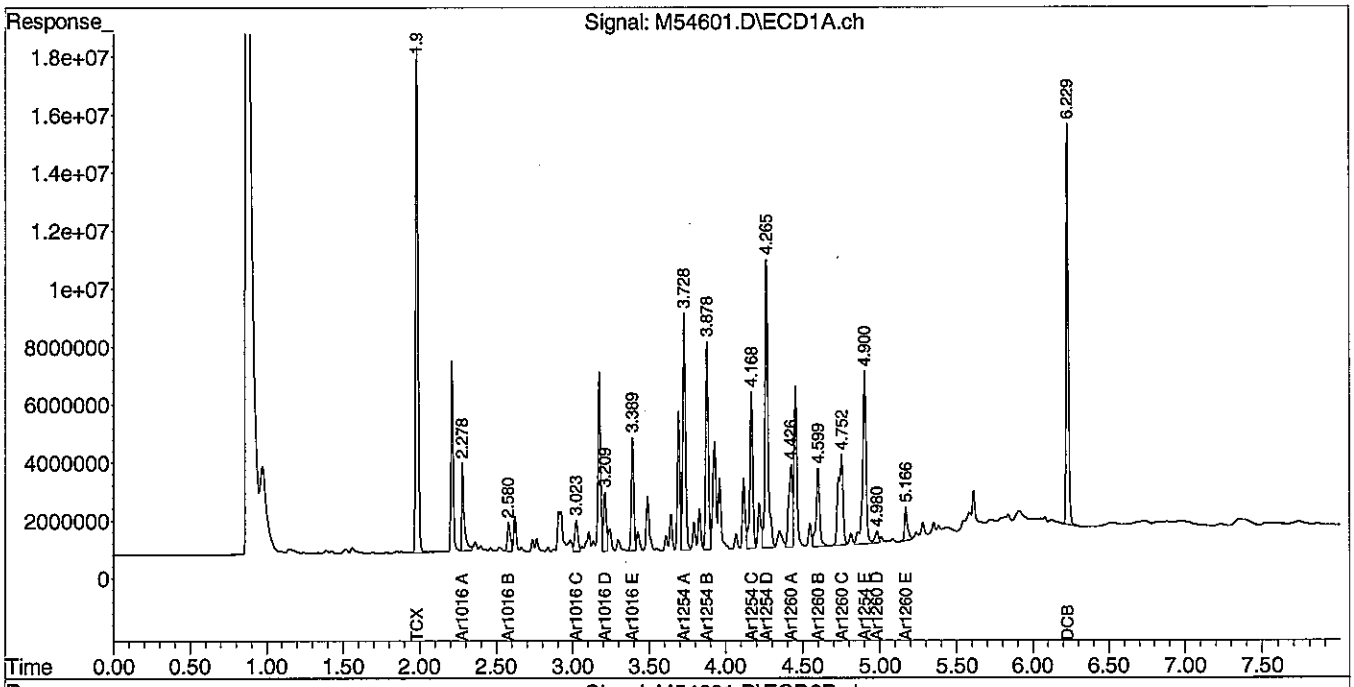
Comments: _____

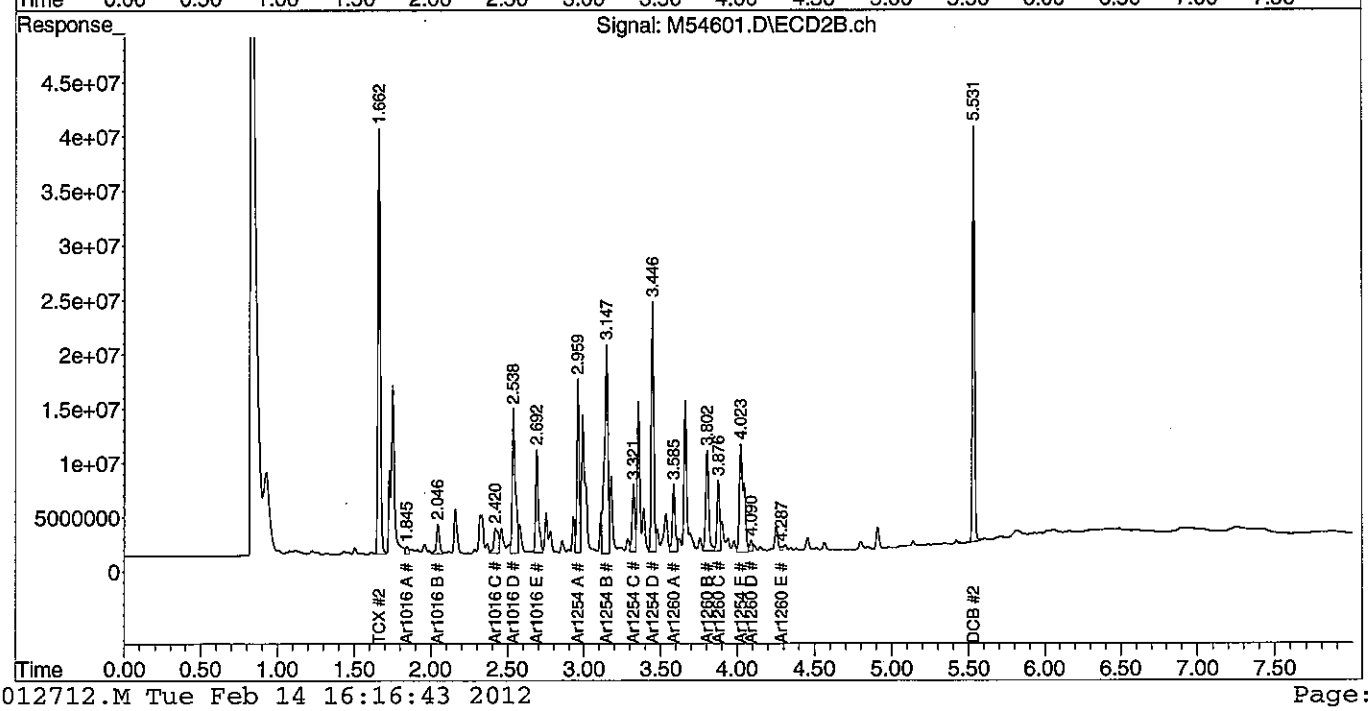
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54601.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 11:56 am
Operator : JK
Sample : 72132-13,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

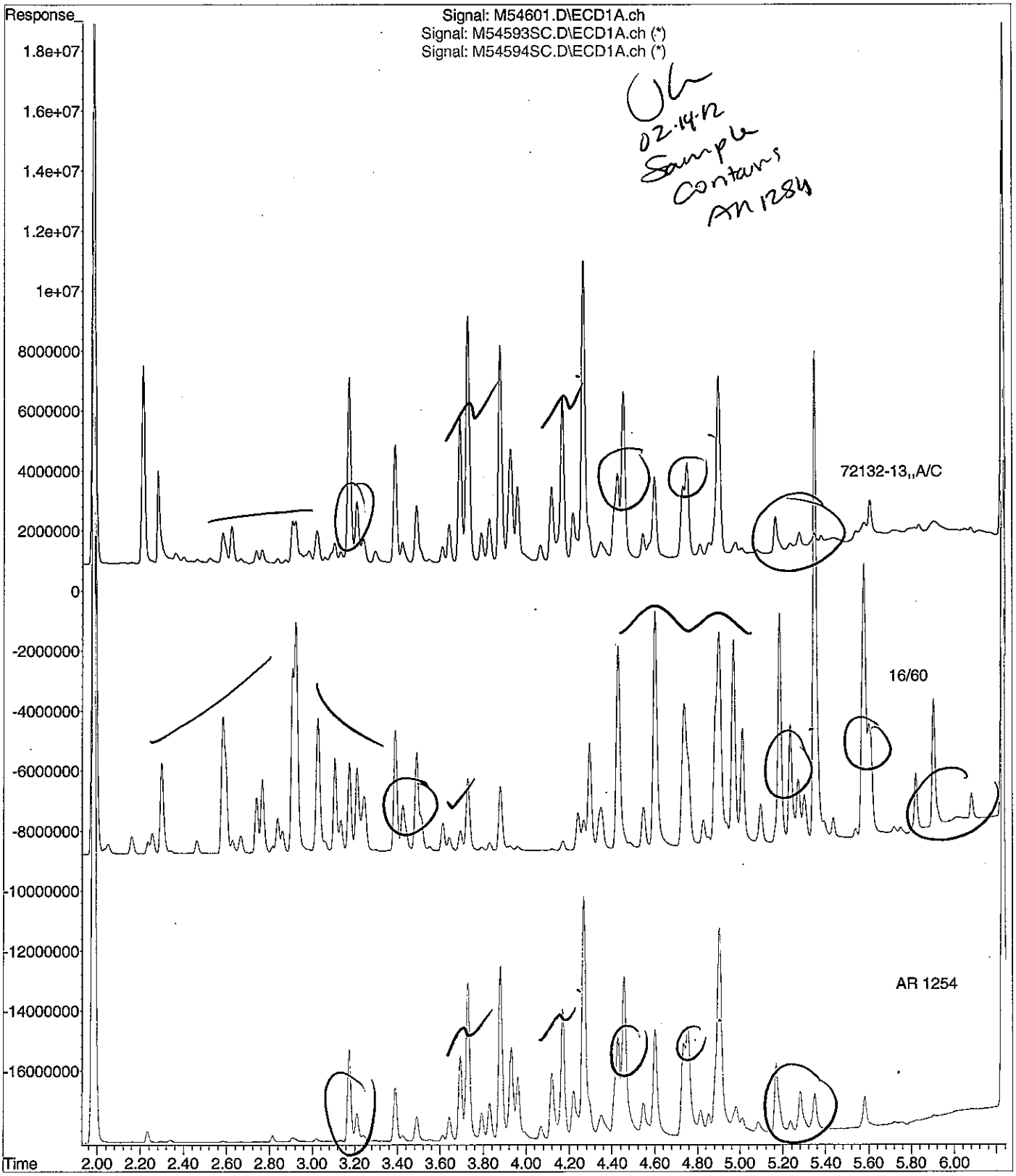
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 14 16:16:35 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 14:07:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021312-M\M54601.D
Operator : JK
Acquired : 13 Feb 2012 11:56 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72132-13,,A/C
Misc Info : SOIL
Vial Number: 12



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Ms. Amy Wallace
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Portland ME 04102

February 14, 2012

SAMPLE DATA

Lab Sample ID:	72132-14
Matrix:	Solid
Percent Solid:	98
Dilution Factor:	1.0
Collection Date:	02/01/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/13/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBC-125

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**307**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	72	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-14,,A/C
Data File: M54602.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	307	298	2.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

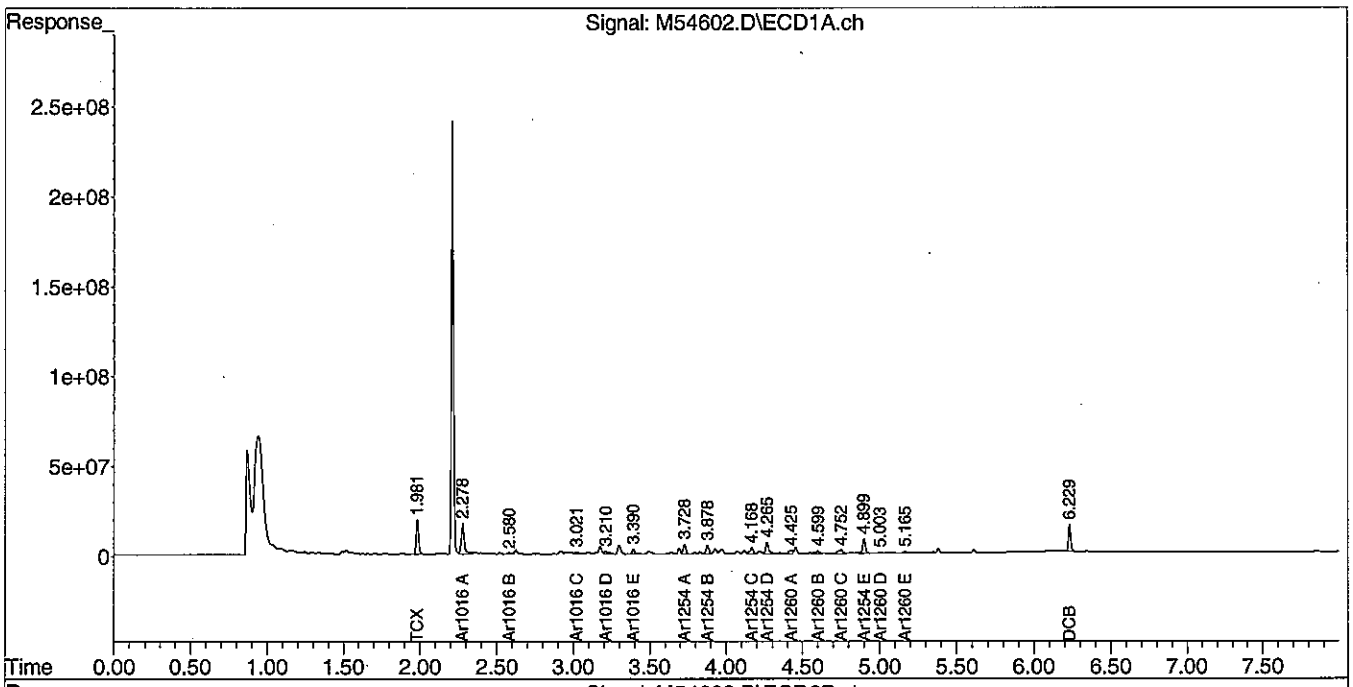
Comments: _____

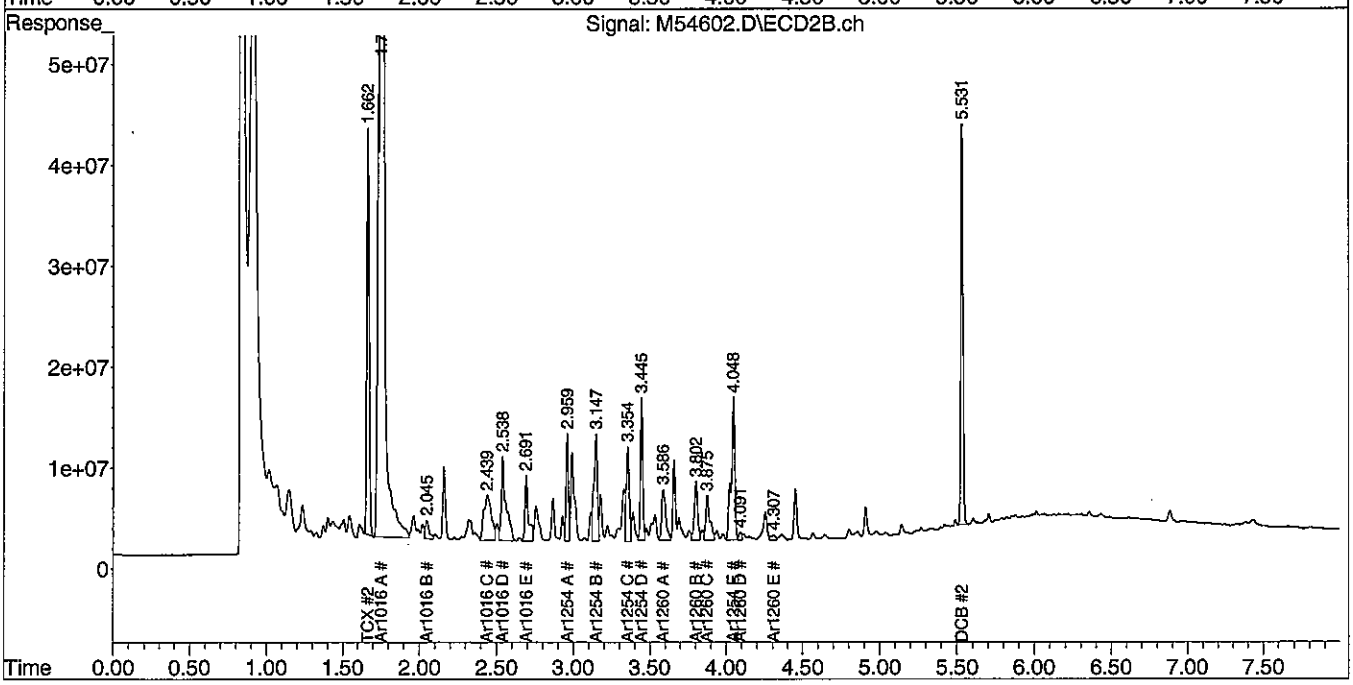
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54602.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 12:06 pm
Operator : JK
Sample : 72132-14,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

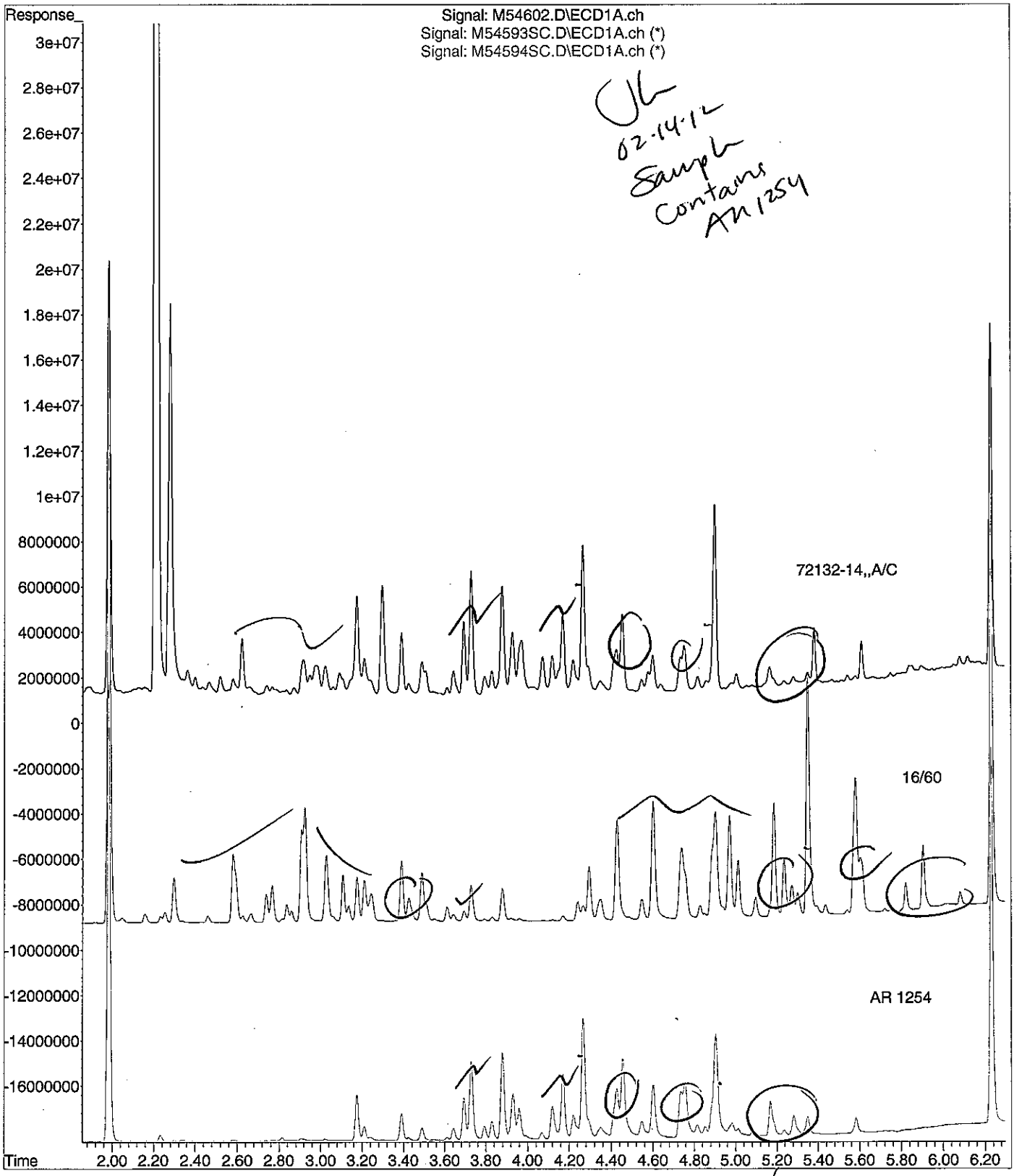
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 14 16:17:56 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 14:07:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021312-M\M54602.D
Operator : JK
Acquired : 13 Feb 2012 12:06 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72132-14,,A/C
Misc Info : SOIL
Vial Number: 13



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Ms. Amy Wallace
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Portland ME 04102

February 14, 2012

SAMPLE DATA

Lab Sample ID:	72132-15
Matrix:	Solid
Percent Solid:	99
Dilution Factor:	1.0
Collection Date:	02/01/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/13/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBC-126

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**406**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	74	%
Decachlorobiphenyl	63	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-15,,A/C
Data File: M54603.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	406	371	9.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

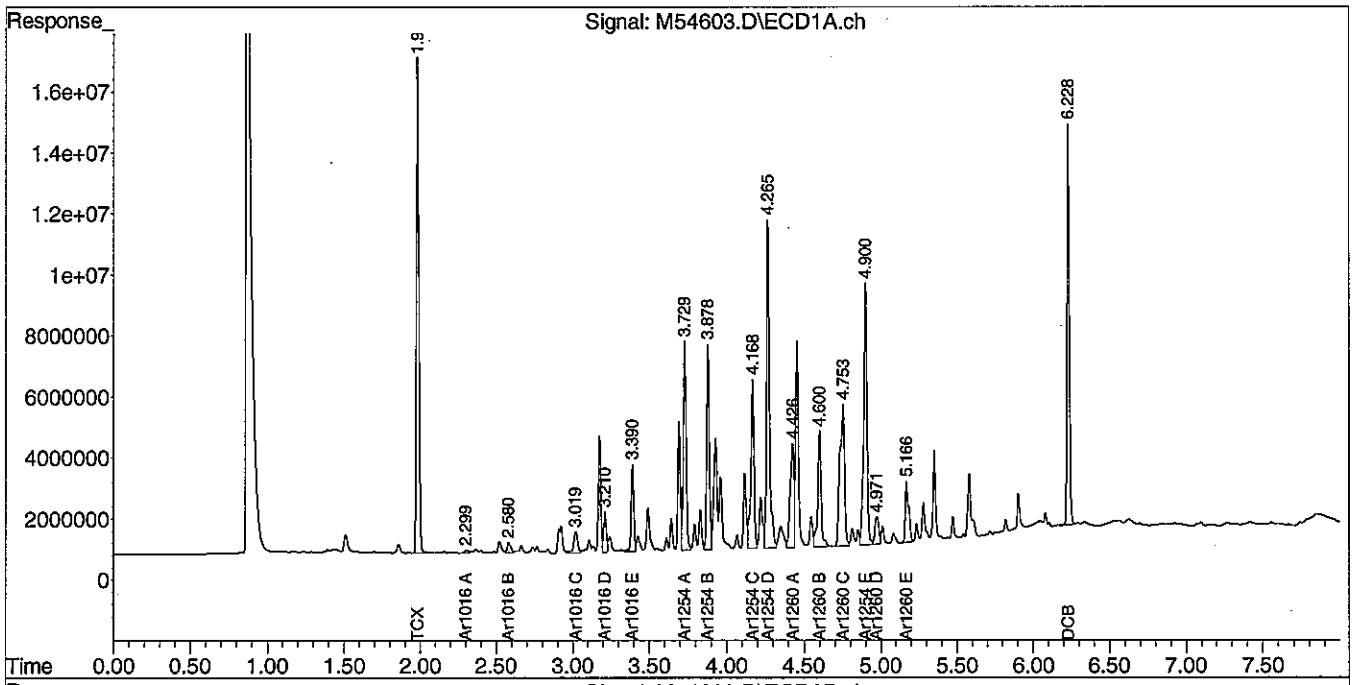
Comments: _____

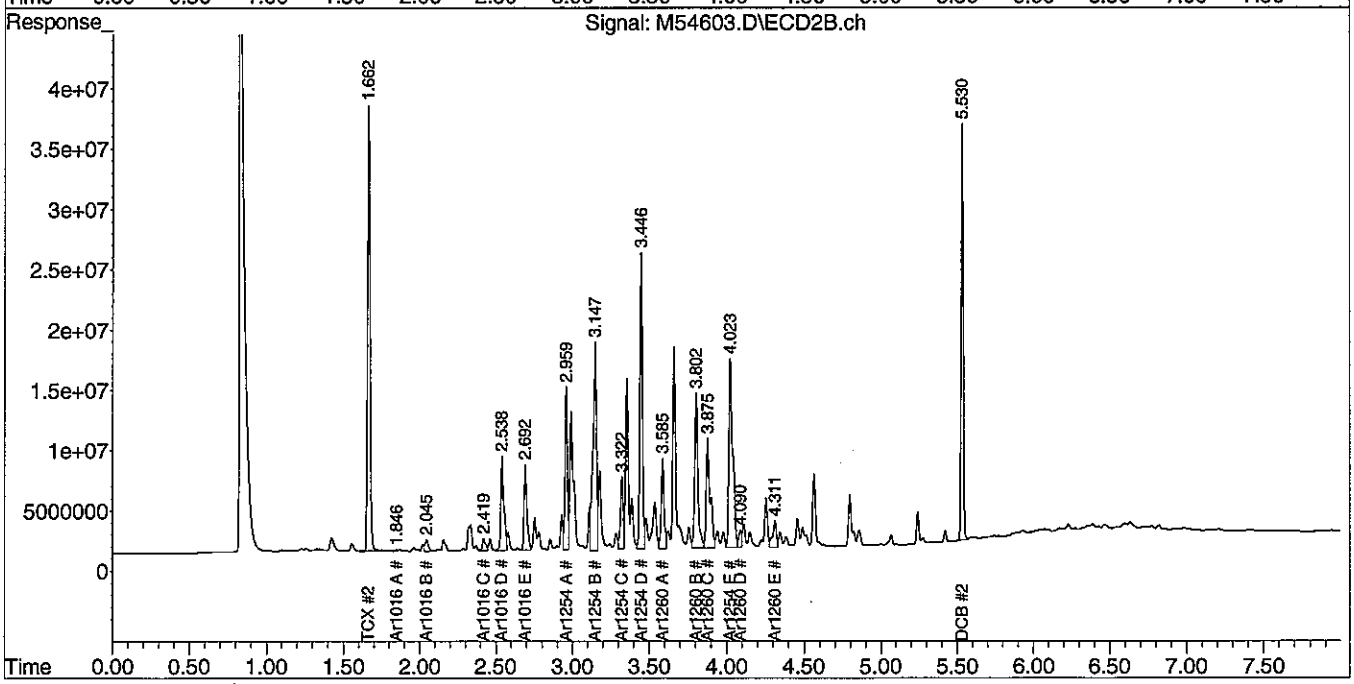
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54603.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 12:16 pm
Operator : JK
Sample : 72132-15,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

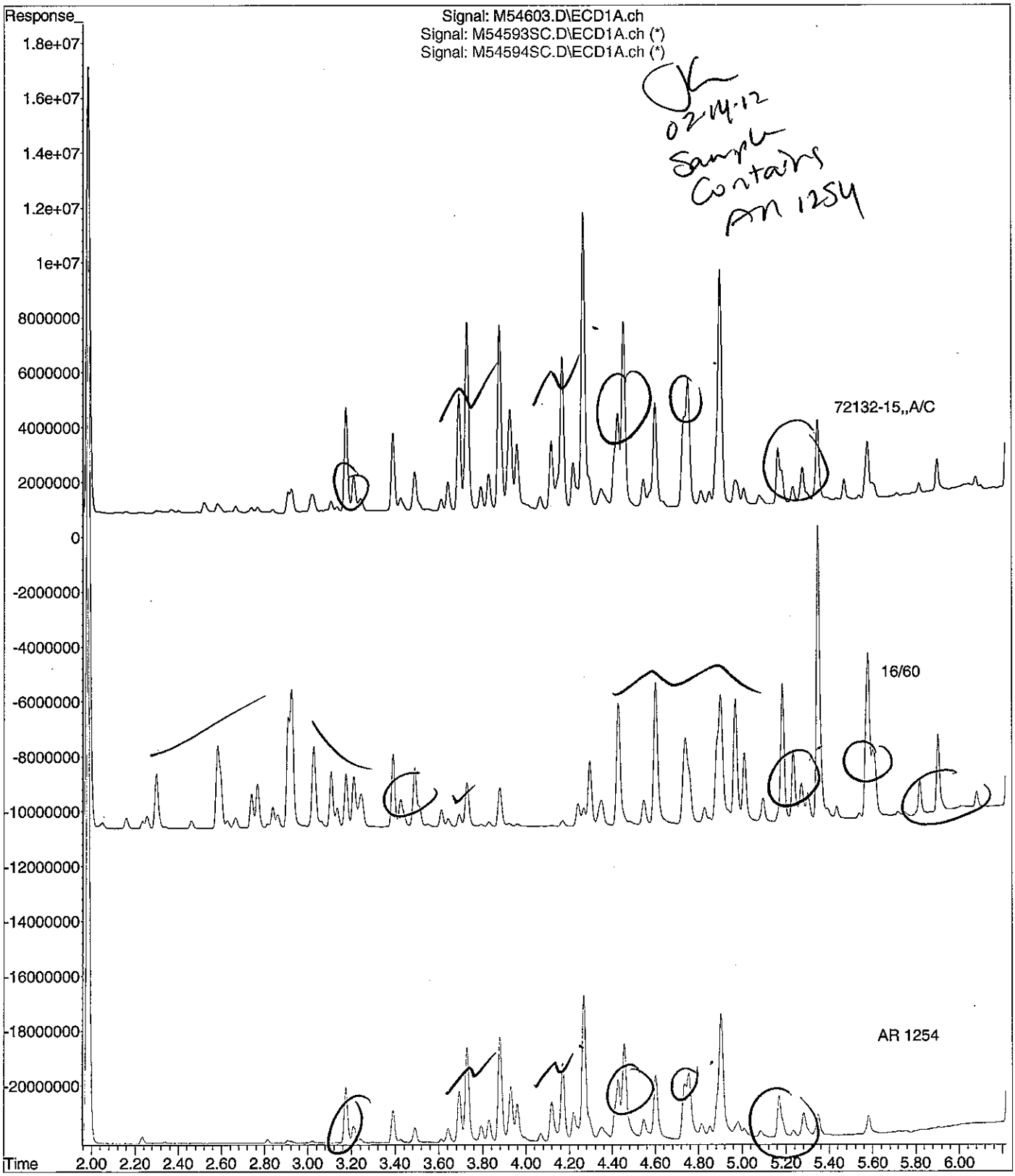
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 14 16:18:43 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 14:07:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021312-M\M54603.D
Operator : JK
Acquired : 13 Feb 2012 12:16 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72132-15,,A/C
Misc Info : SOIL
Vial Number: 14



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Ms. Amy Wallace
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Portland ME 04102

February 14, 2012

SAMPLE DATA

Lab Sample ID:	72132-16
Matrix:	Solid
Percent Solid:	98
Dilution Factor:	1.0
Collection Date:	02/01/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/13/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBP-127

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**90**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-16,,A/C
Data File: M54604.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	79	90	13.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

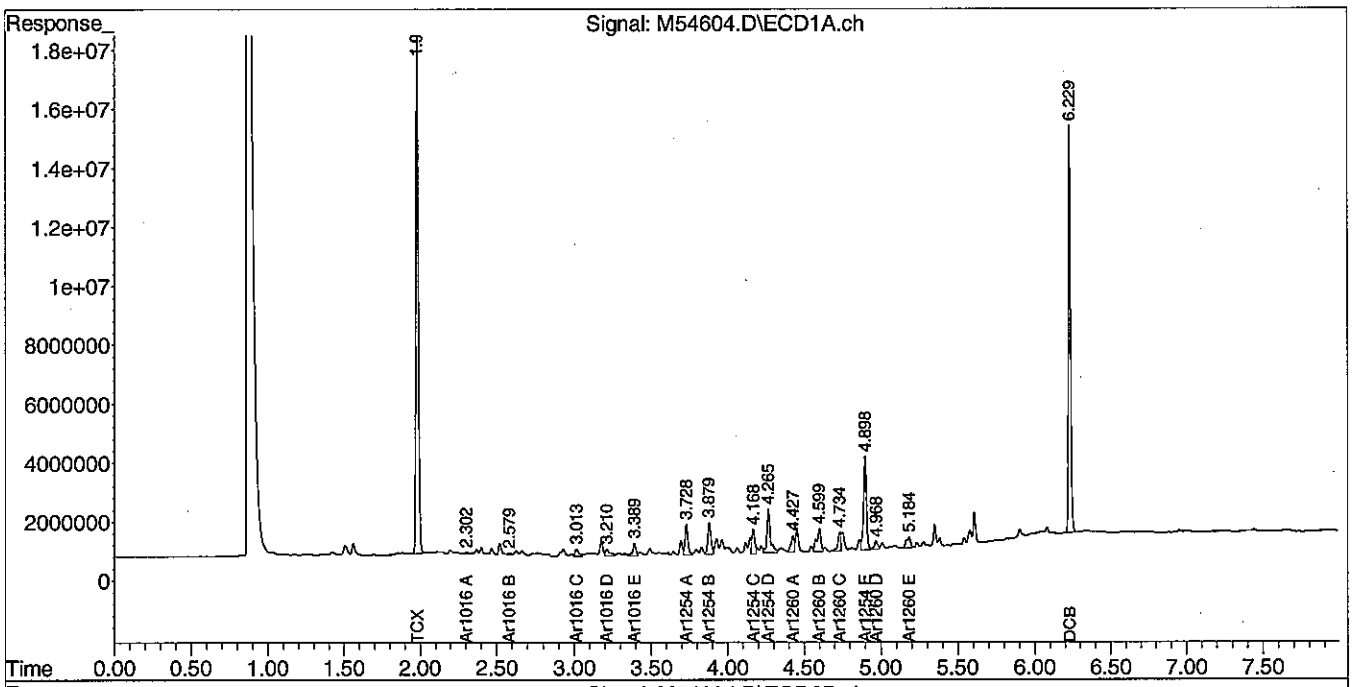
Comments: _____

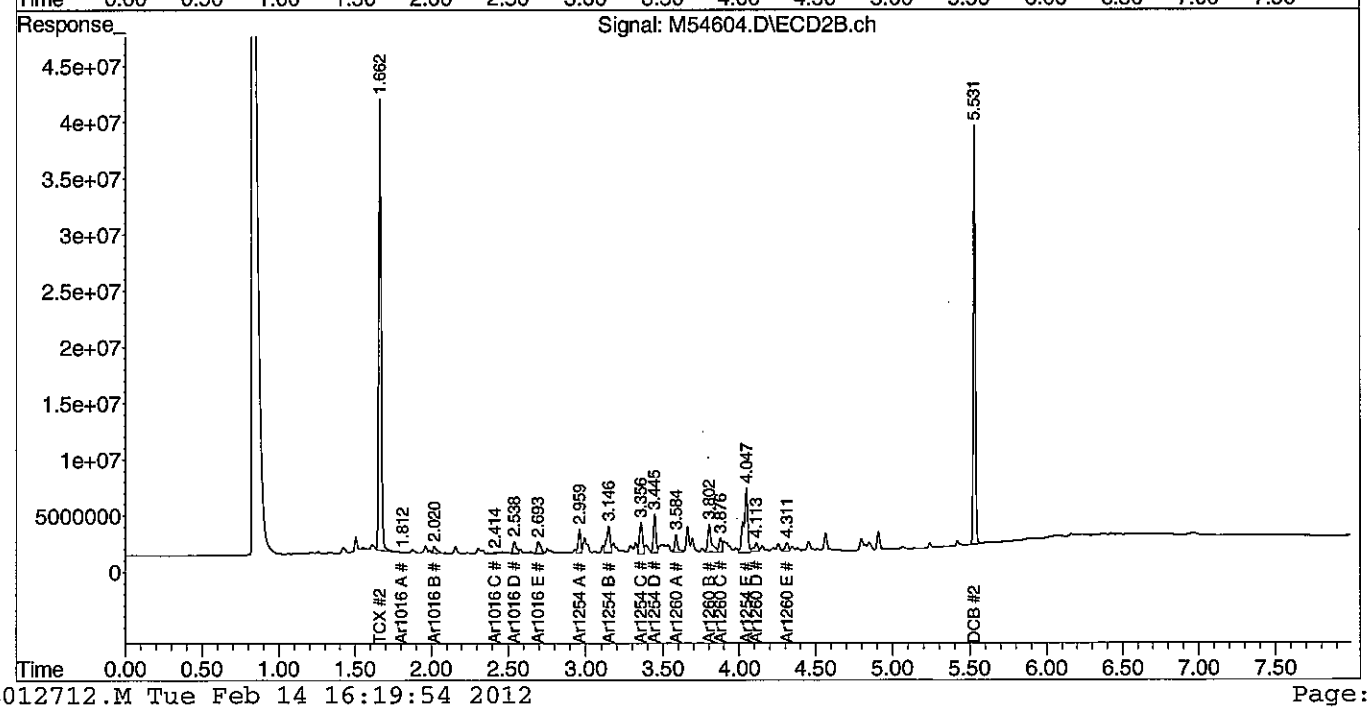
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54604.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 12:27 pm
Operator : JK
Sample : 72132-16,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

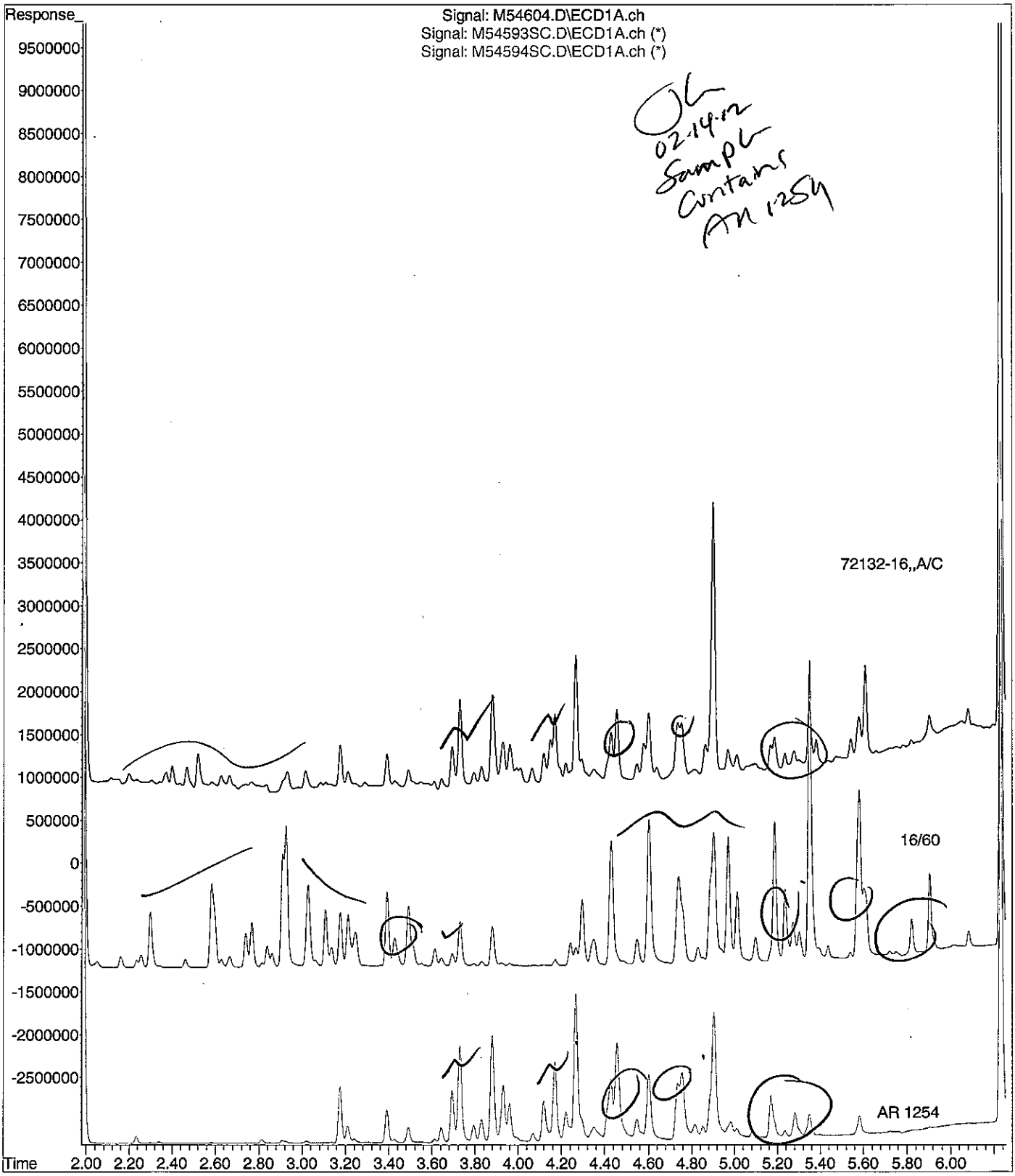
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 14 16:19:46 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 14:07:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021312-M\M54604.D
Operator : JK
Acquired : 13 Feb 2012 12:27 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72132-16,,A/C
Misc Info : SOIL
Vial Number: 15



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Ms. Amy Wallace
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Portland ME 04102

February 14, 2012

SAMPLE DATA

Lab Sample ID:	72132-17
Matrix:	Solid
Percent Solid:	72
Dilution Factor:	1.3
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/13/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-150

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	43	U
PCB-1221	43	U
PCB-1232	43	U
PCB-1242	43	U
PCB-1248	43	U
PCB-1254	43	**123**
PCB-1260	43	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	72	%
Decachlorobiphenyl	81	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-17,,A/C
Data File: M54605.D
Dilution Factor: 1.3

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	113	123	8.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

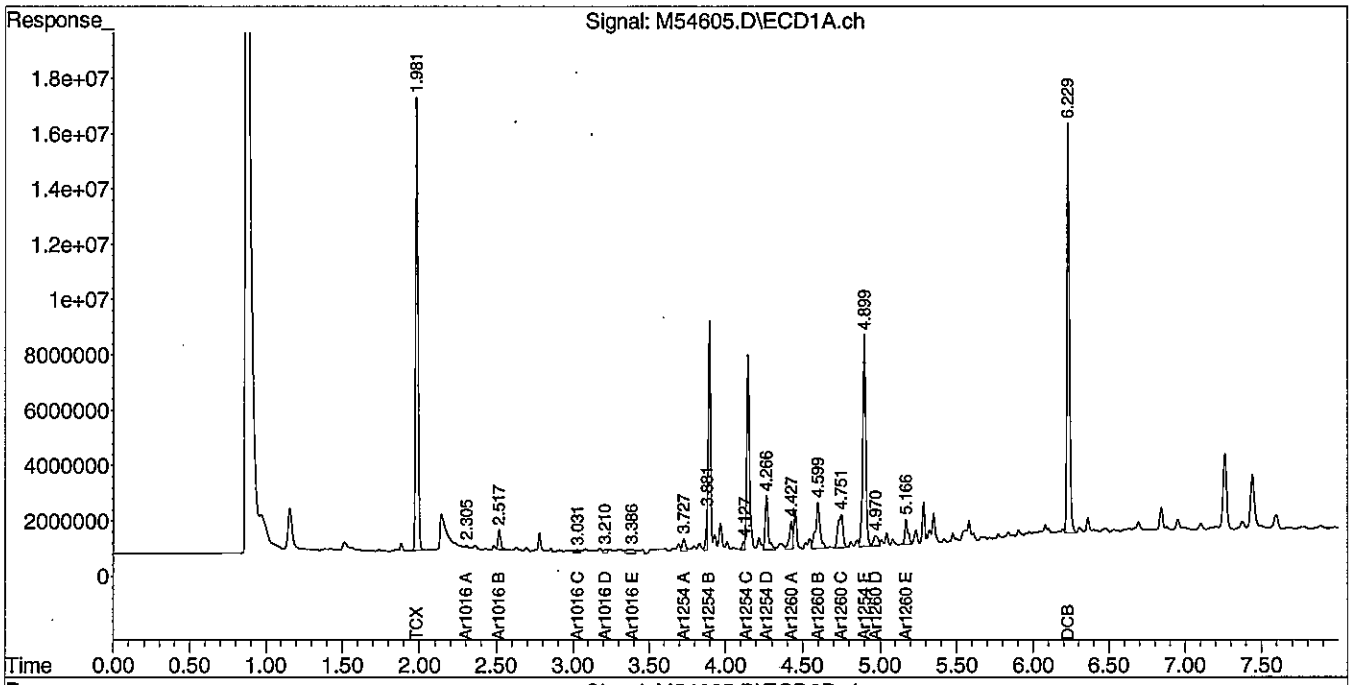
Comments: _____

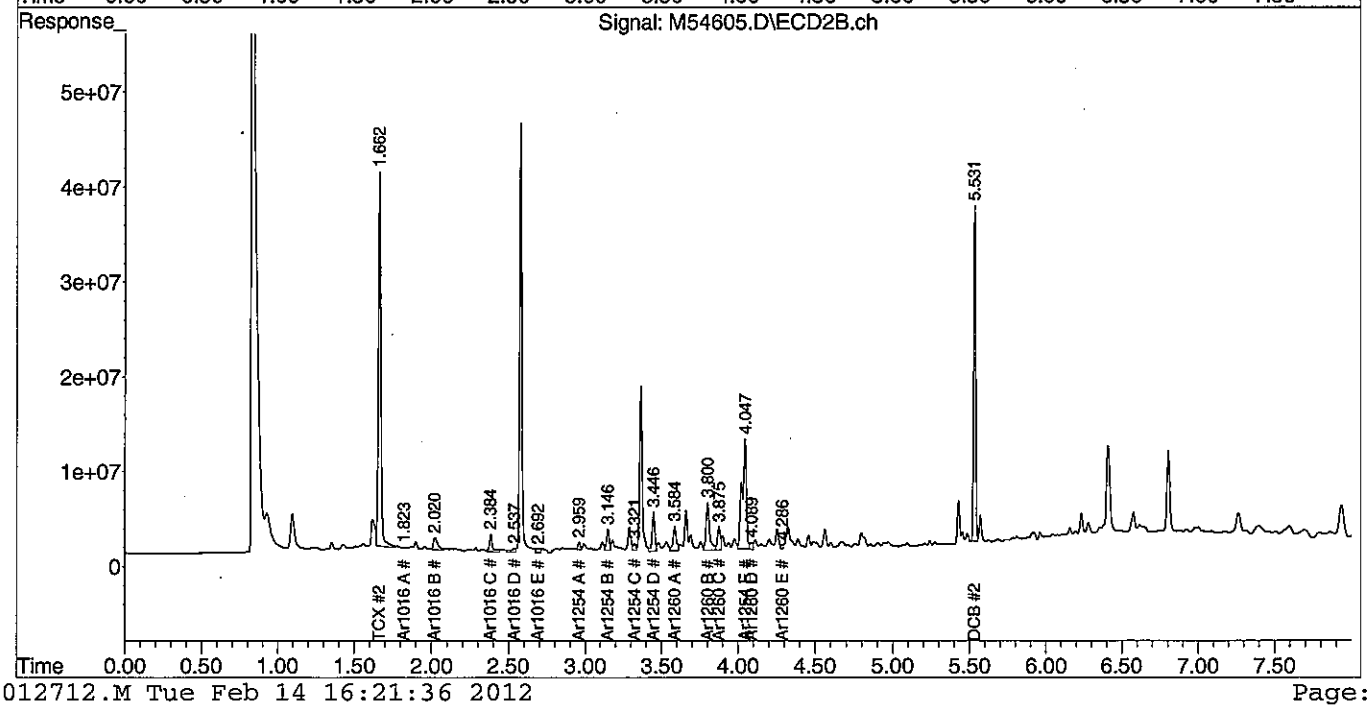
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54605.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 12:37 pm
Operator : JK
Sample : 72132-17,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

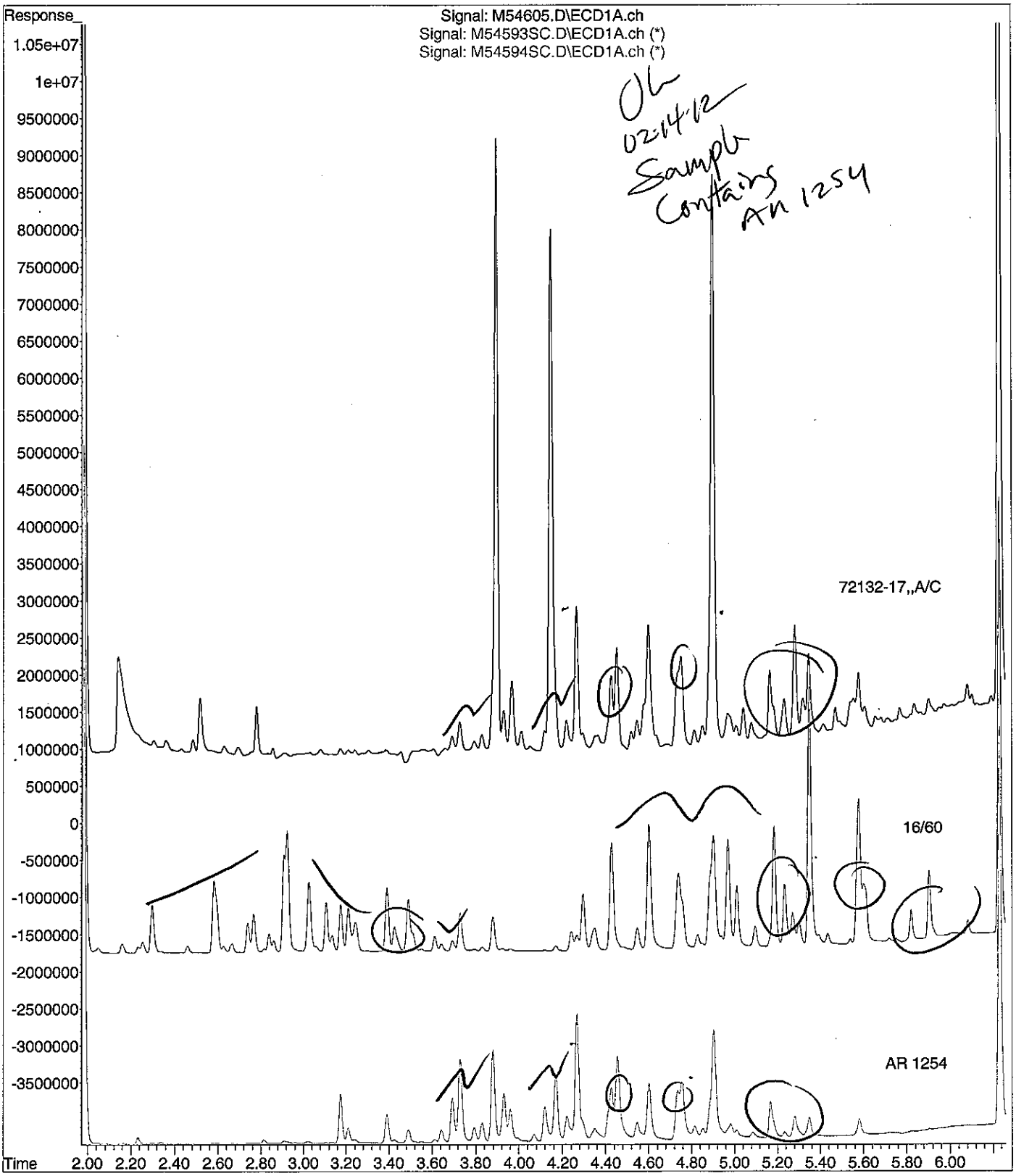
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 14 16:21:22 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 14:07:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021312-M\M54605.D
Operator : JK
Acquired : 13 Feb 2012 12:37 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72132-17,,A/C
Misc Info : SOIL
Vial Number: 16



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Ms. Amy Wallace
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Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-18
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	3.6
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/14/12
Analysis Date:	02/14/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBA-151

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L
PCB-1016	0.72	U
PCB-1221	0.72	U
PCB-1232	0.72	U
PCB-1242	0.72	U
PCB-1248	0.72	U
PCB-1254	0.72	U
PCB-1260	0.72	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	80	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS: Quantitation limits are increased due to limited sample volume provided by the client.

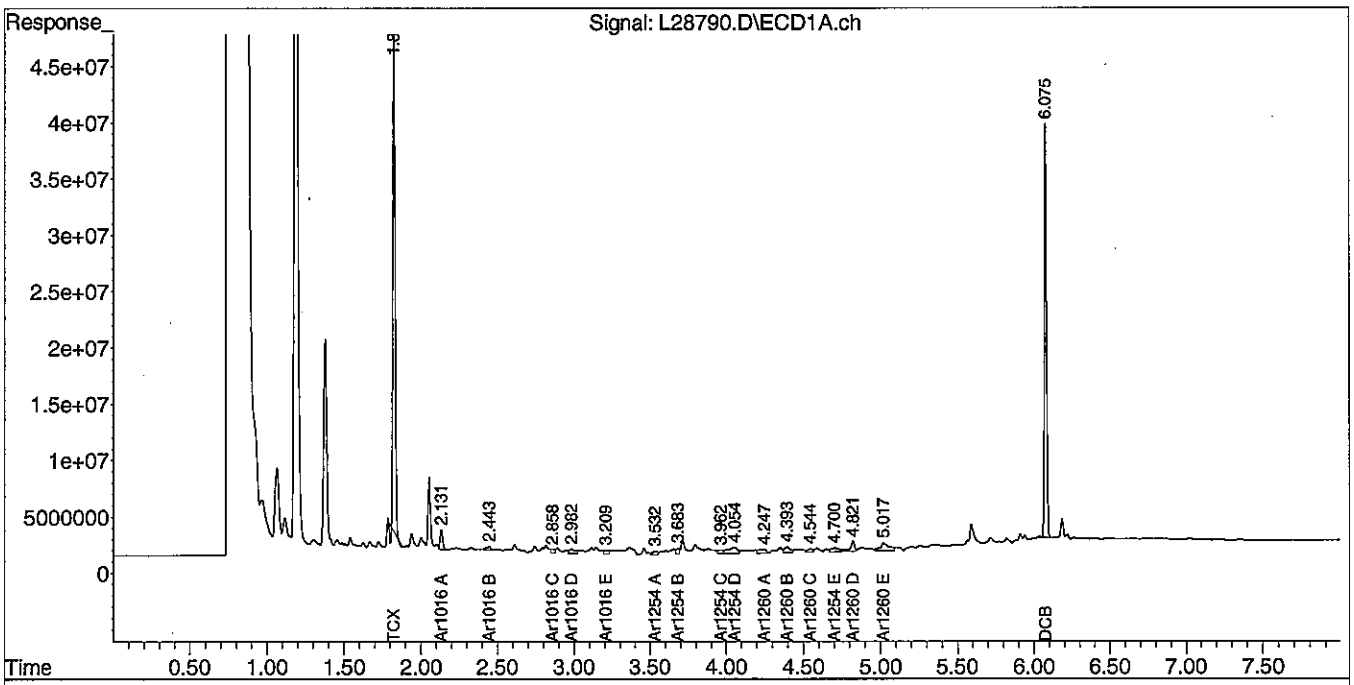
PCB Report

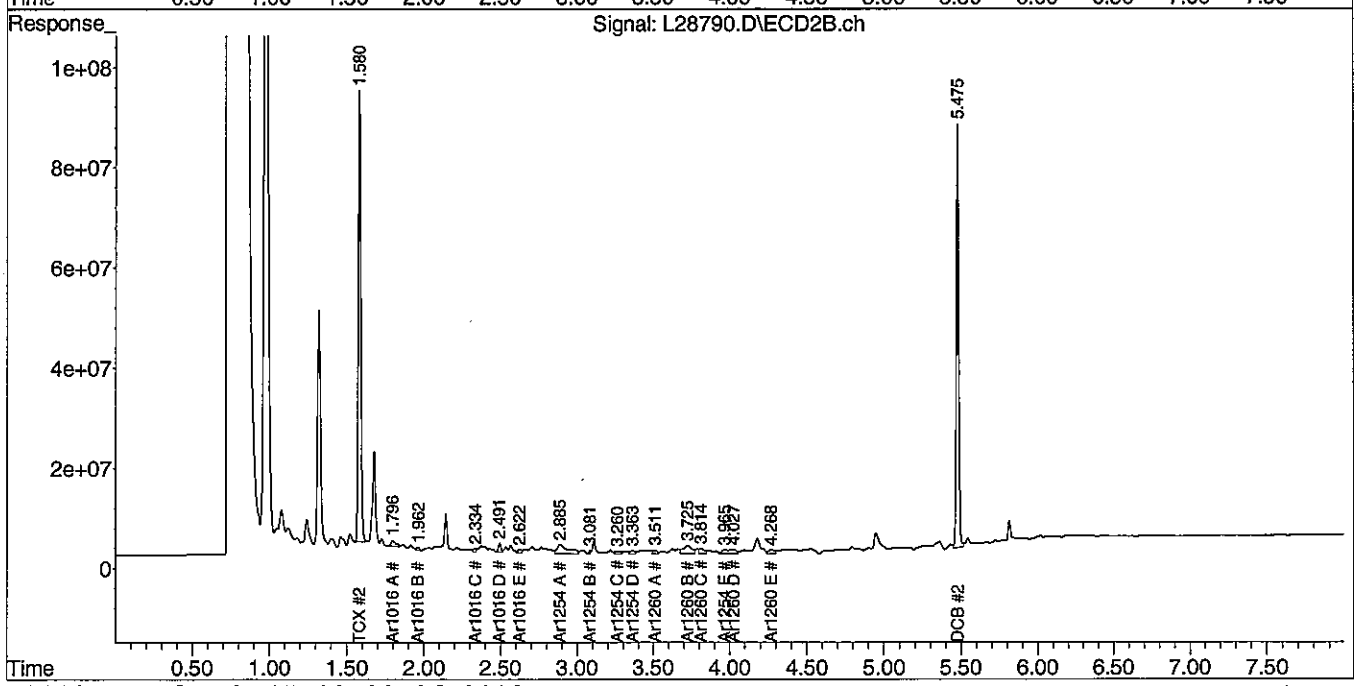
Authorized signature

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28790.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 14 Feb 2012 10:17 pm
Operator : AR
Sample : 72132-18
Misc :
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 02:29:06 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

February 14, 2012

SAMPLE DATA

Lab Sample ID:	72132-19
Matrix:	Solid
Percent Solid:	100
Dilution Factor:	1.0
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/13/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBB-152

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**360**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	75	%
Decachlorobiphenyl	69	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-19,,A/C
Data File: M54606.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	360	340	5.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

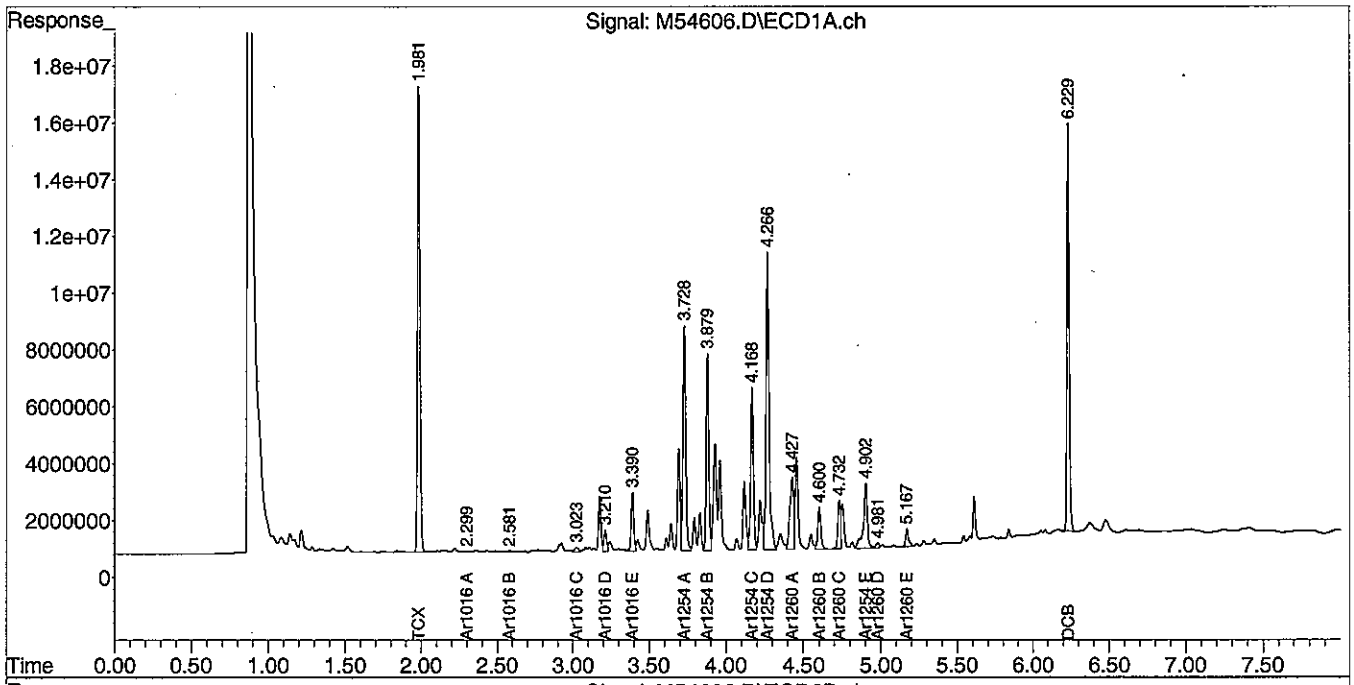
Comments: _____

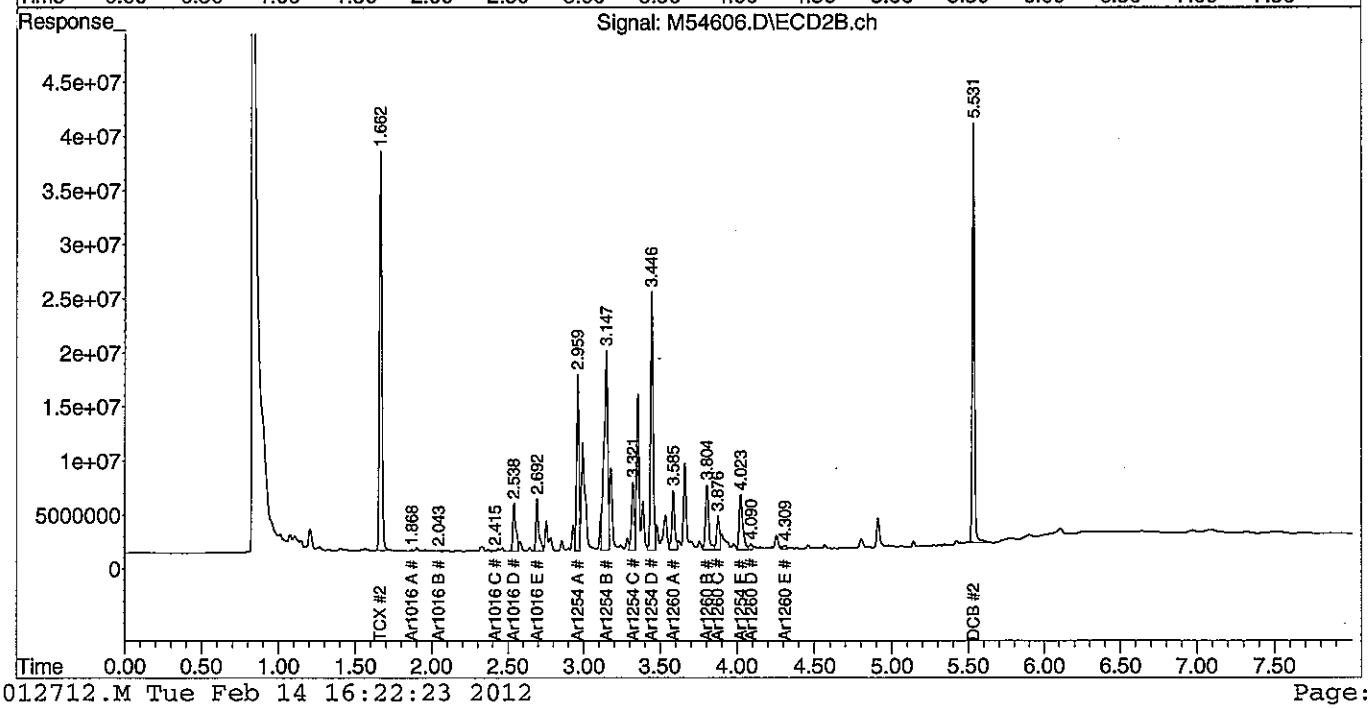
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021312-M\
Data File : M54606.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 13 Feb 2012 12:47 pm
Operator : JK
Sample : 72132-19,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

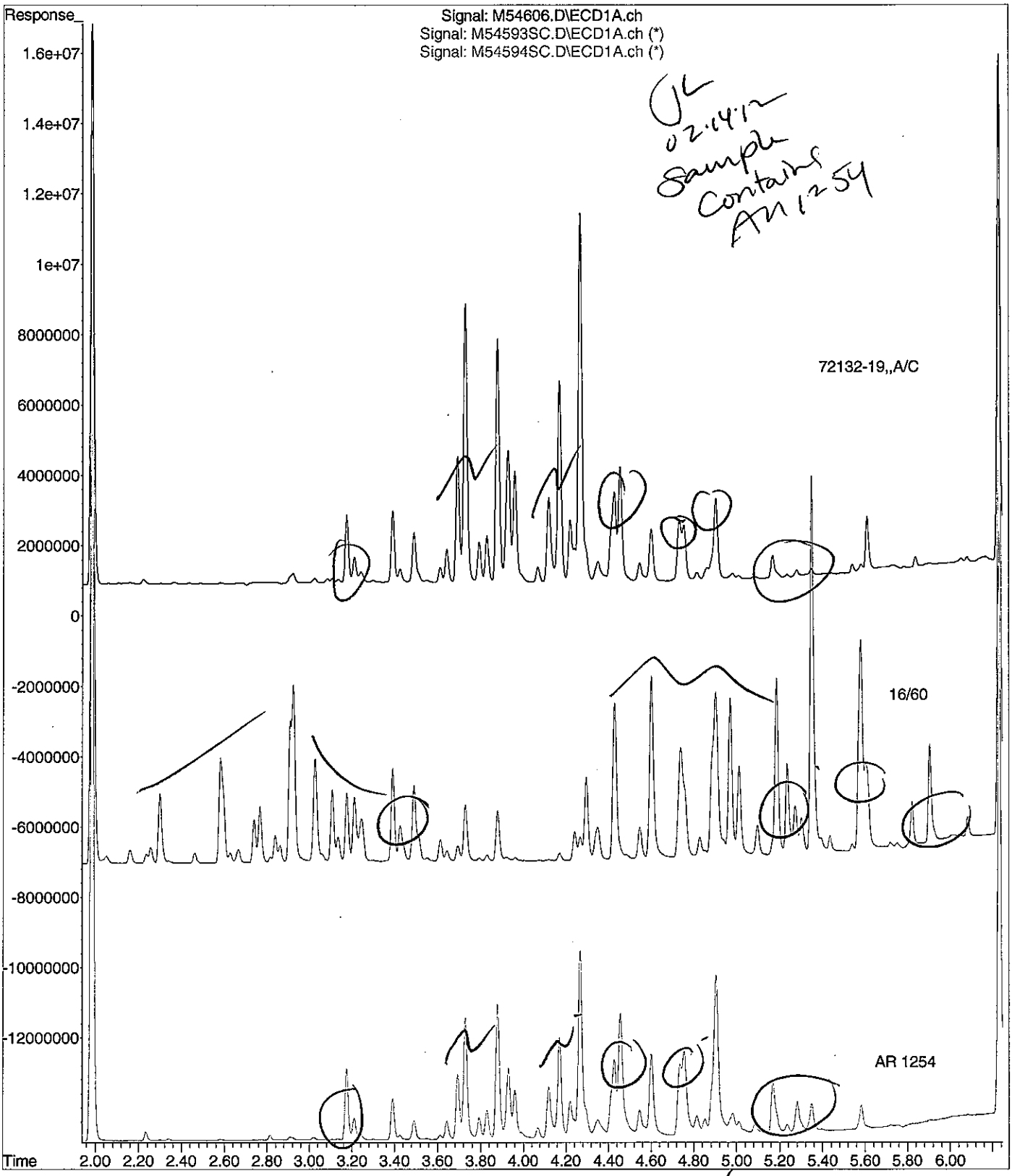
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 14 16:22:14 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 14:07:02 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021312-M\M54606.D
Operator : JK
Acquired : 13 Feb 2012 12:47 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72132-19,,A/C
Misc Info : SOIL
Vial Number: 17



 2/15/12

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February 14, 2012

SAMPLE DATA

Lab Sample ID:	72132-20
Matrix:	Solid
Percent Solid:	95
Dilution Factor:	1.0
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/09/12
Analysis Date:	02/13/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBB-154

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**707**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	80	%
Decachlorobiphenyl	73	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-20,,A/C
Data File: M54607.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	707	670	5.3	

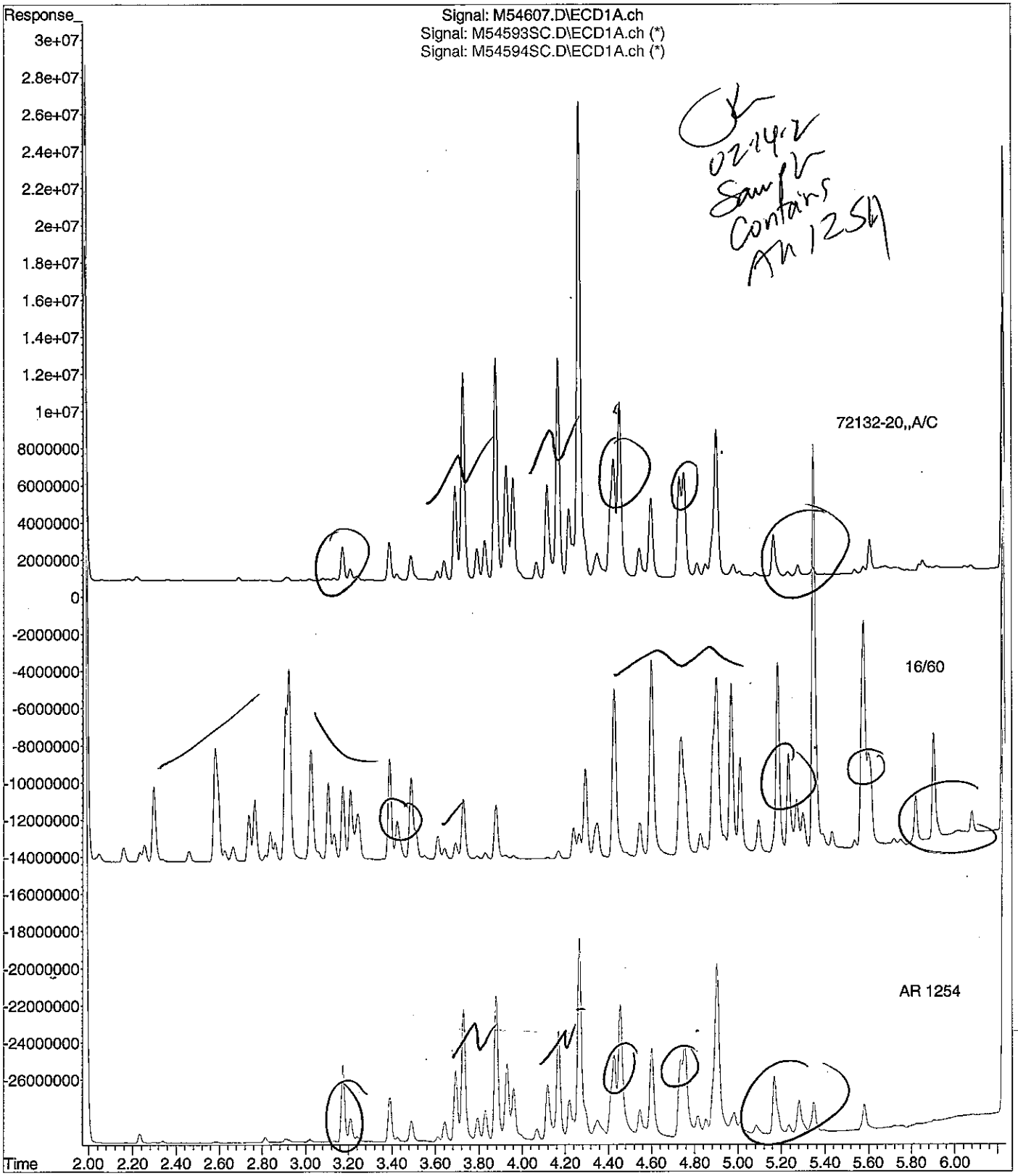
Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

PCB FORM 10

File :C:\msdchem\1\DATA\021312-M\M54607.D
Operator : JK
Acquired : 13 Feb 2012 12:57 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72132-20,,A/C
Misc Info : SOIL
Vial Number: 18



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February 15, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWM-128

Lab Sample ID: 72132-21
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 125
Collection Date: 02/06/12
Lab Receipt Date: 02/08/12
Extraction Date: 02/13/12
Analysis Date: 02/15/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	63	U
PCB-1221	63	U
PCB-1232	63	U
PCB-1242	63	U
PCB-1248	63	U
PCB-1254	63	**1010**
PCB-1260	63	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-21,1:125,A/C
Data File: L28794.D
Dilution Factor: 125.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	934.1	1014.5	8.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

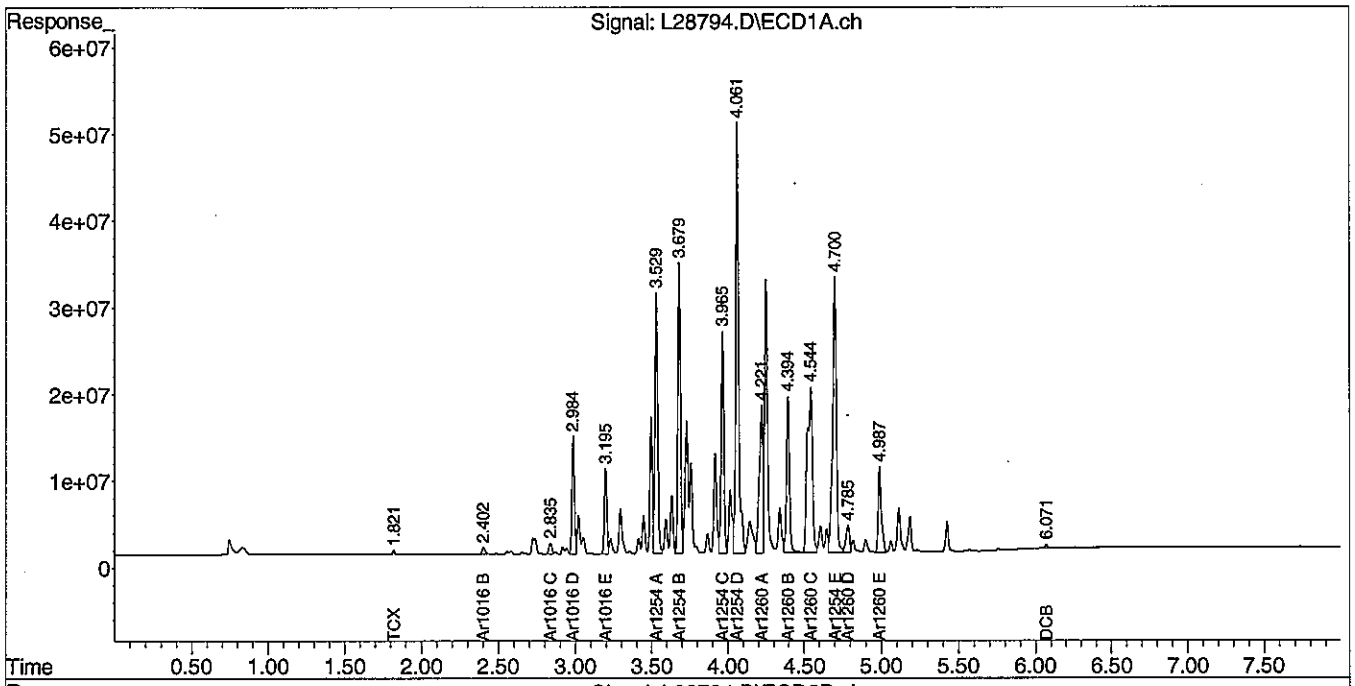
Comments: _____

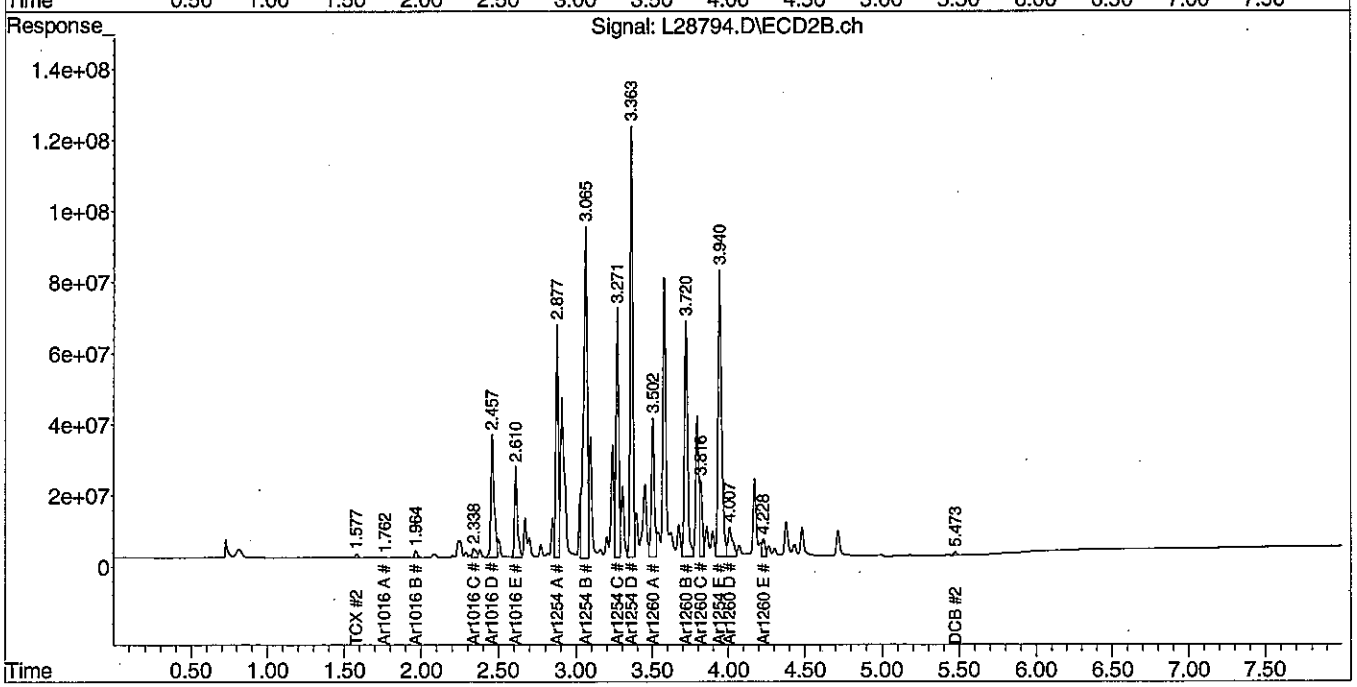
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28794.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 1:18 am
Operator : AR
Sample : 72132-21,1:125,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

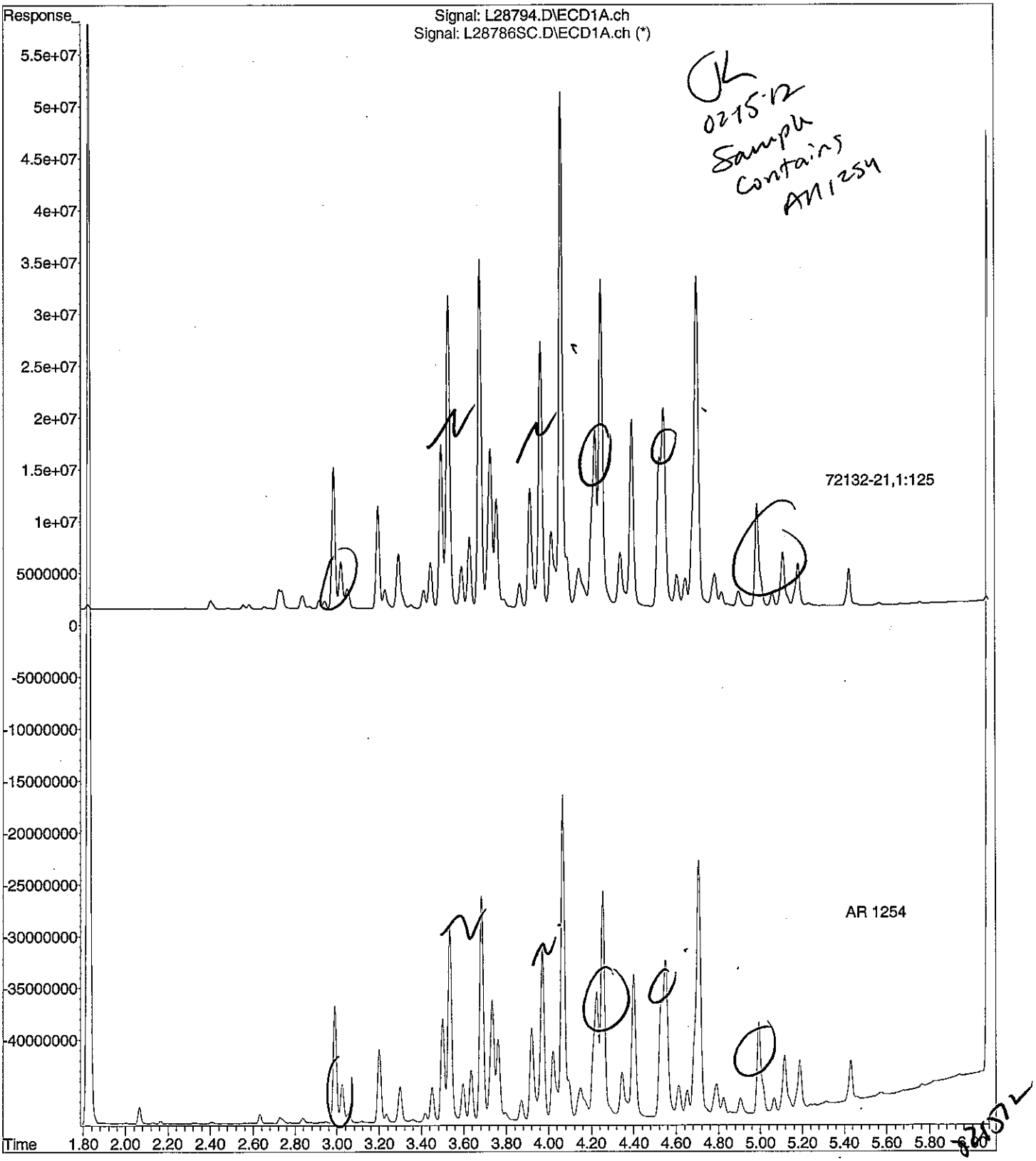
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 09:18:01 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\021412-L\L28794.D
Operator : AR
Acquired : 15 Feb 2012 1:18 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72132-21,1:125,A/C
Misc Info : SOIL
Vial Number: 15



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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-22
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	5.0
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-129

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**23**
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	88	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-22,1:5,A/C
Data File: L28795.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	23.2	22.7	2.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

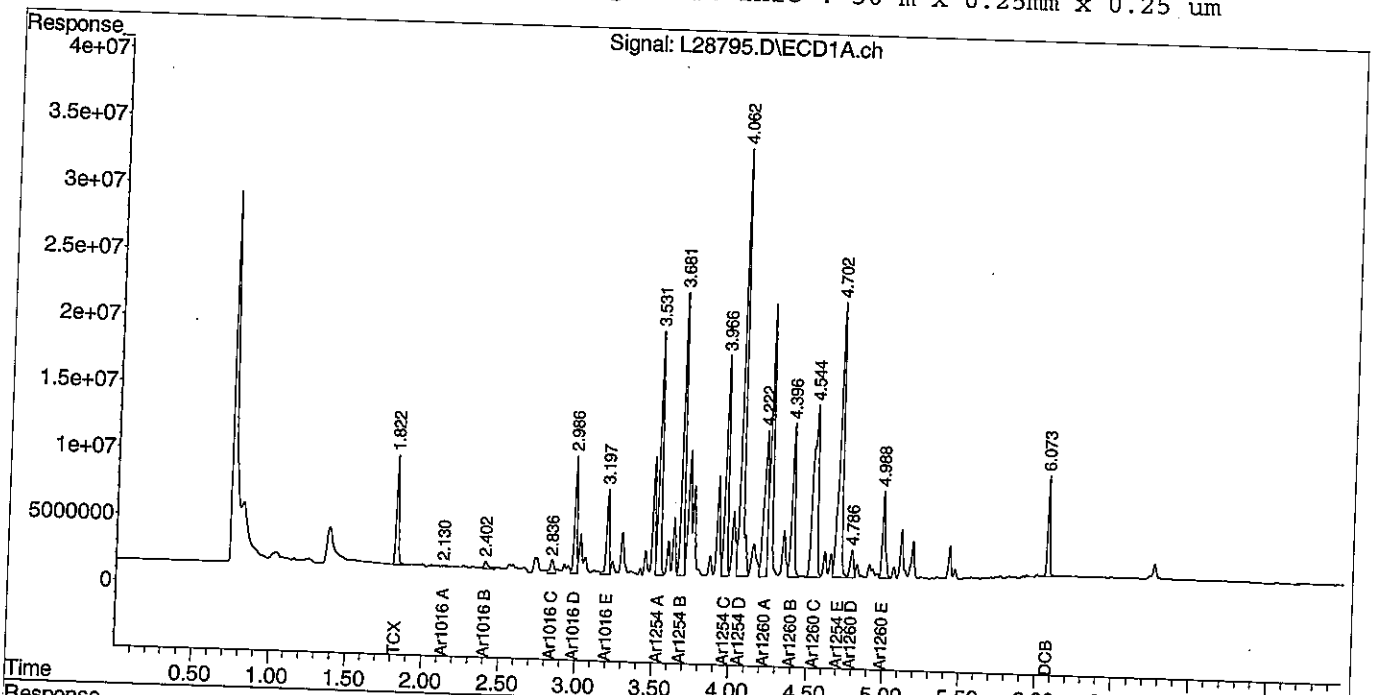
PCB FORM 10

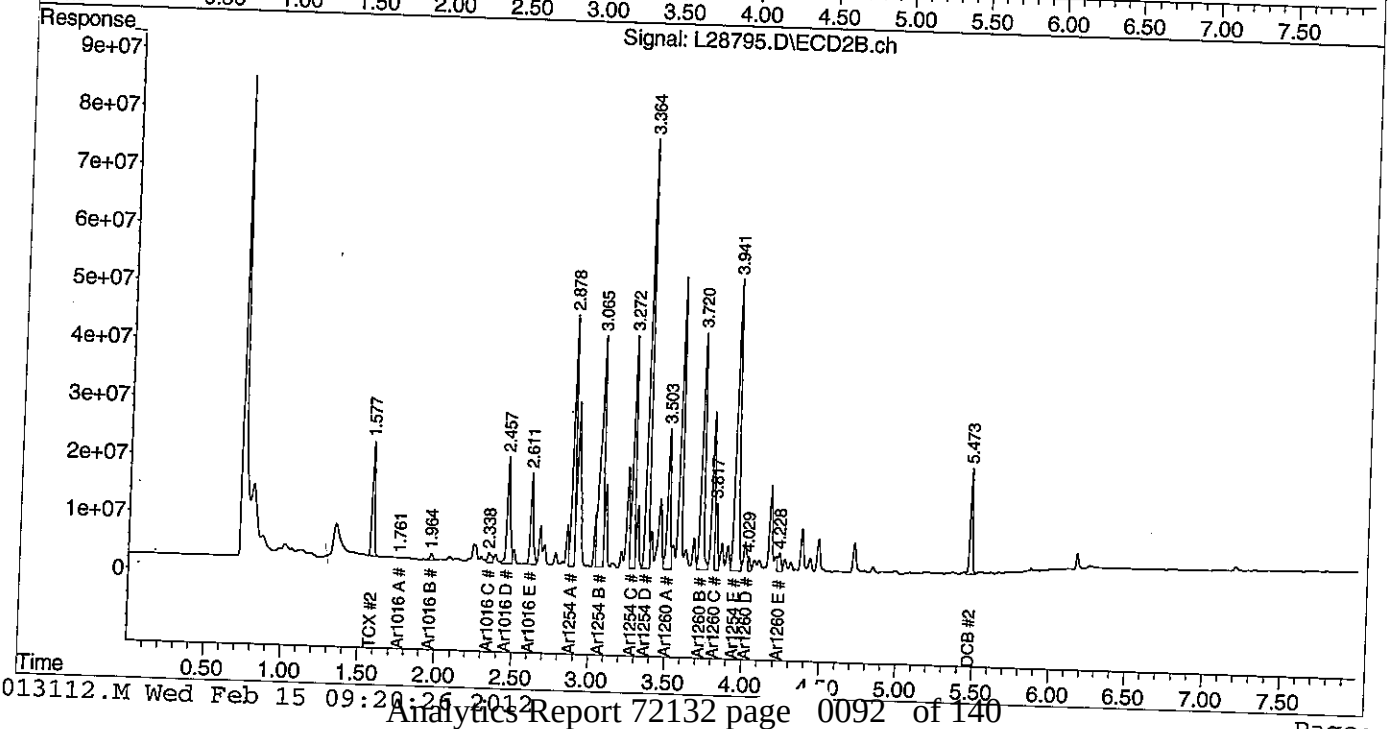
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28795.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 1:28 am
Operator : AR
Sample : 72132-22,1:5,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 09:20:17 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-23
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	5.0
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-130

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**28**
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	90	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-23,1:5,A/C
Data File: L28796.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	27.7	27.8	0.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

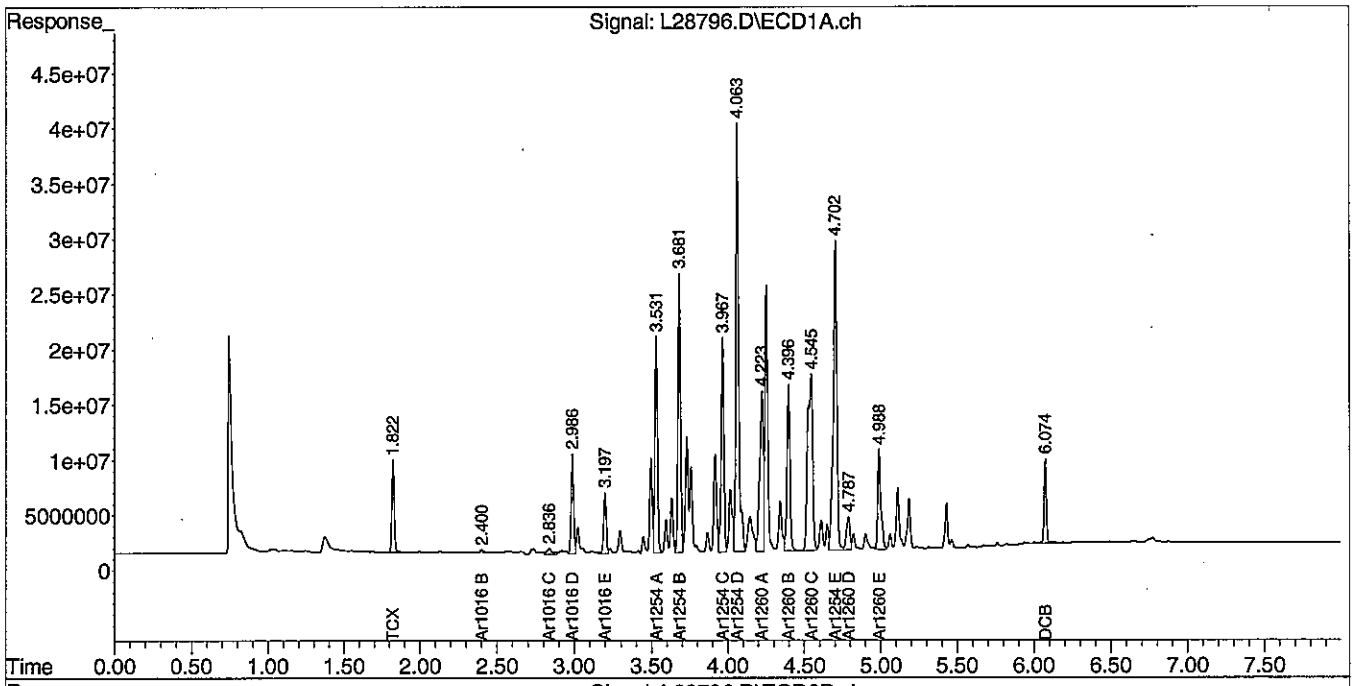
Comments: _____

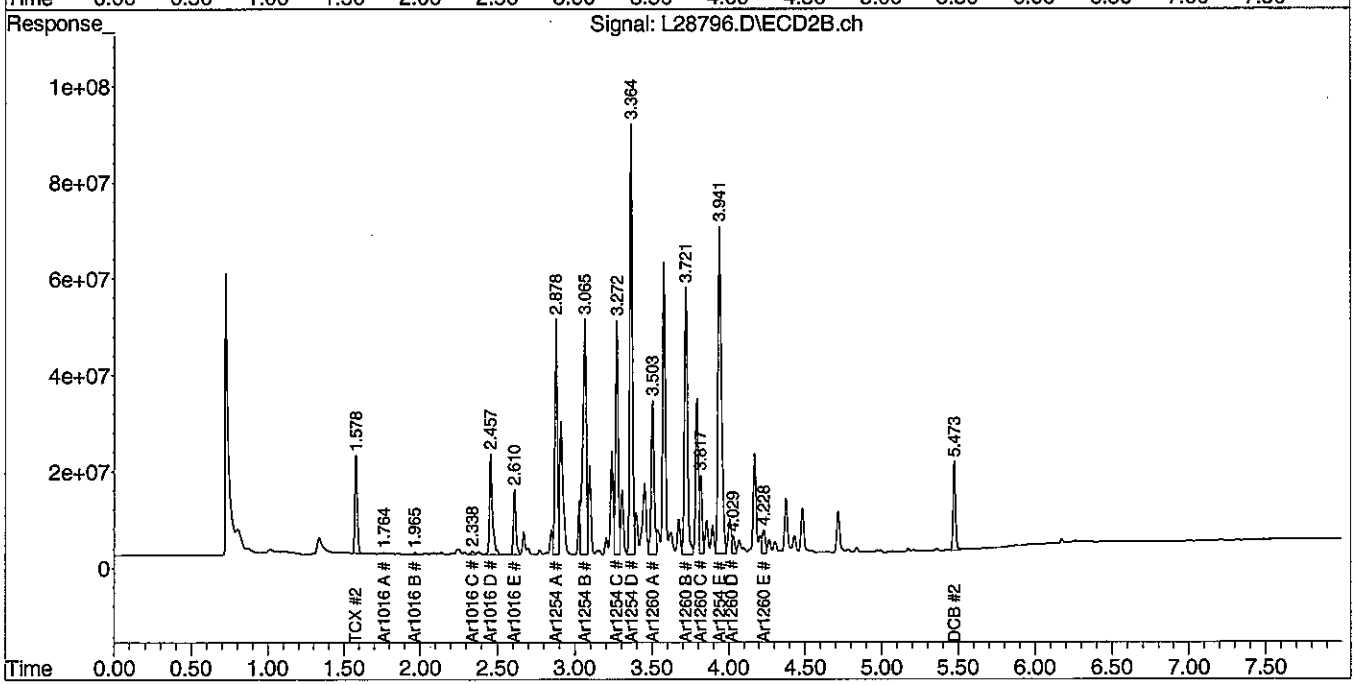
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28796.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 1:39 am
Operator : AR
Sample : 72132-23,1:5,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 02:29:18 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-24
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	250
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-131

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	125	U
PCB-1221	125	U
PCB-1232	125	U
PCB-1242	125	U
PCB-1248	125	U
PCB-1254	125	**1320**
PCB-1260	125	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-24,1:250,A/C
Data File: L28810.D
Dilution Factor: 250.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1210.5	1324.7	9.0	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

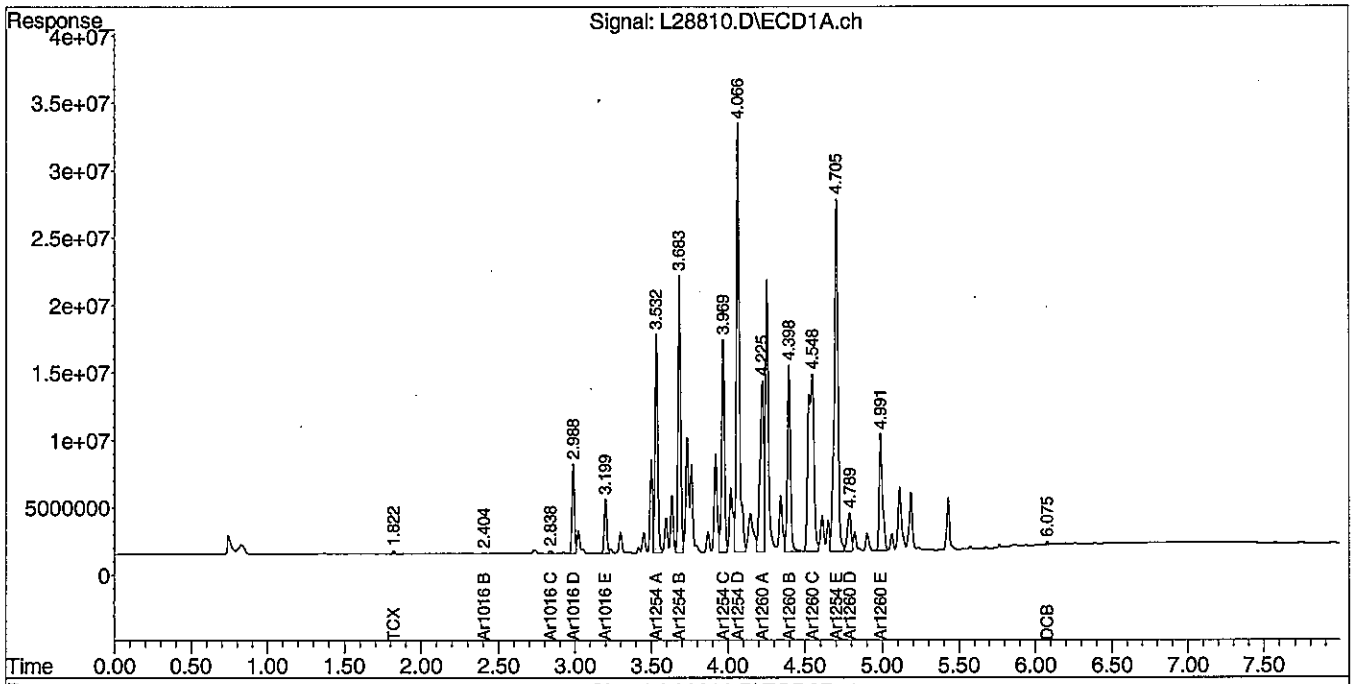
Comments: _____

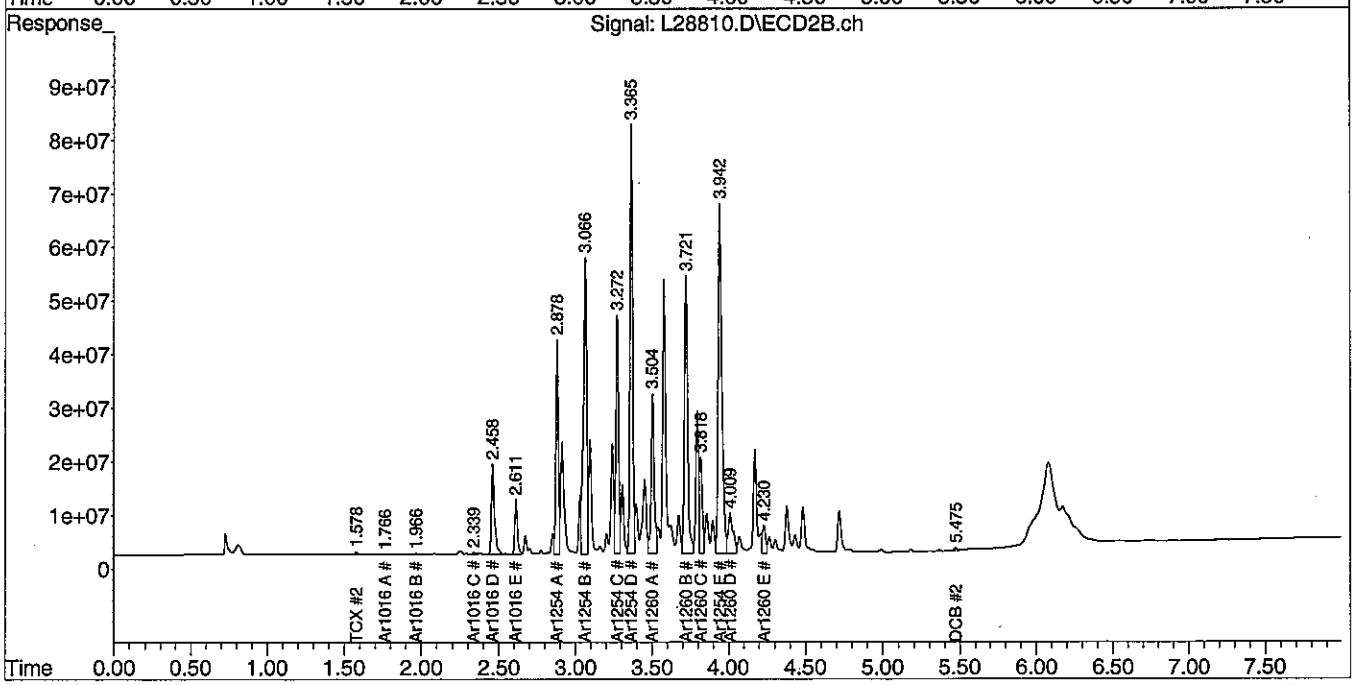
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28810.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 5:45 am
Operator : AR
Sample : 72132-24,1:250,A/C
Misc : SOIL
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:14:01 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-25
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	5.0
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-132

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**28**
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	92	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-25,1:5,A/C
Data File: L28798.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	28.4	27.8	2.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

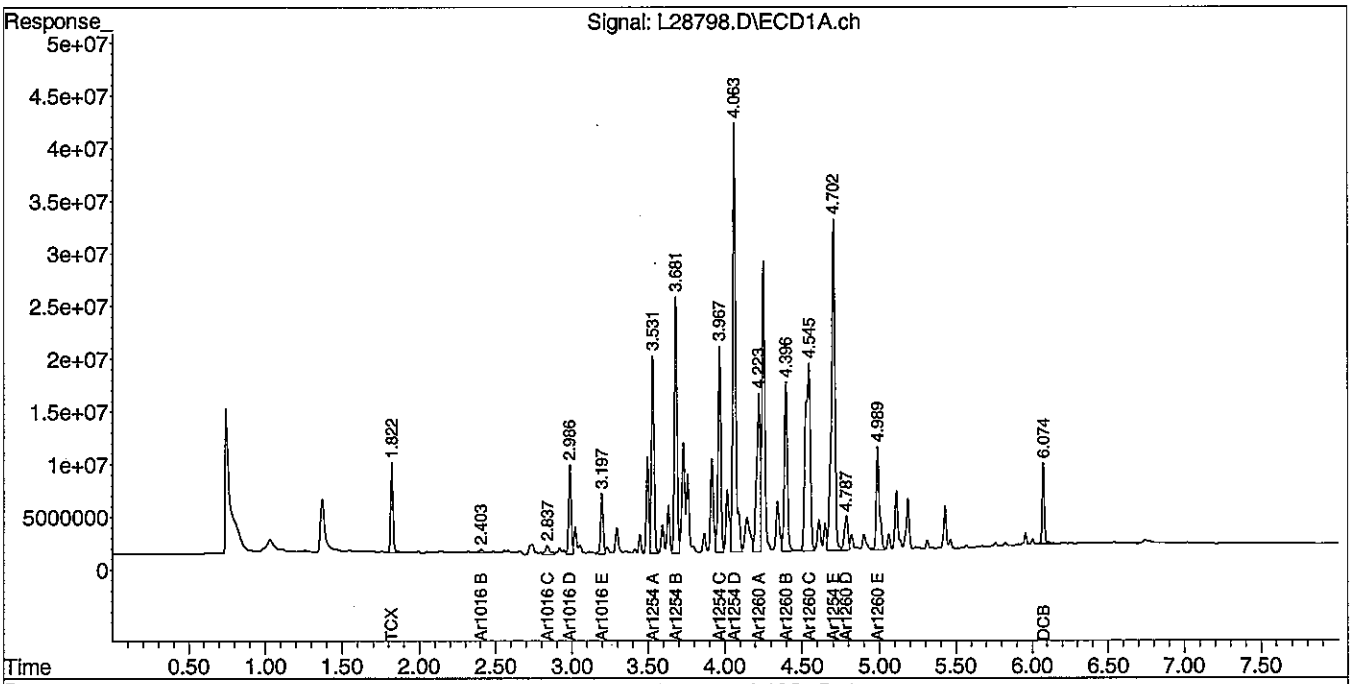
Comments: _____

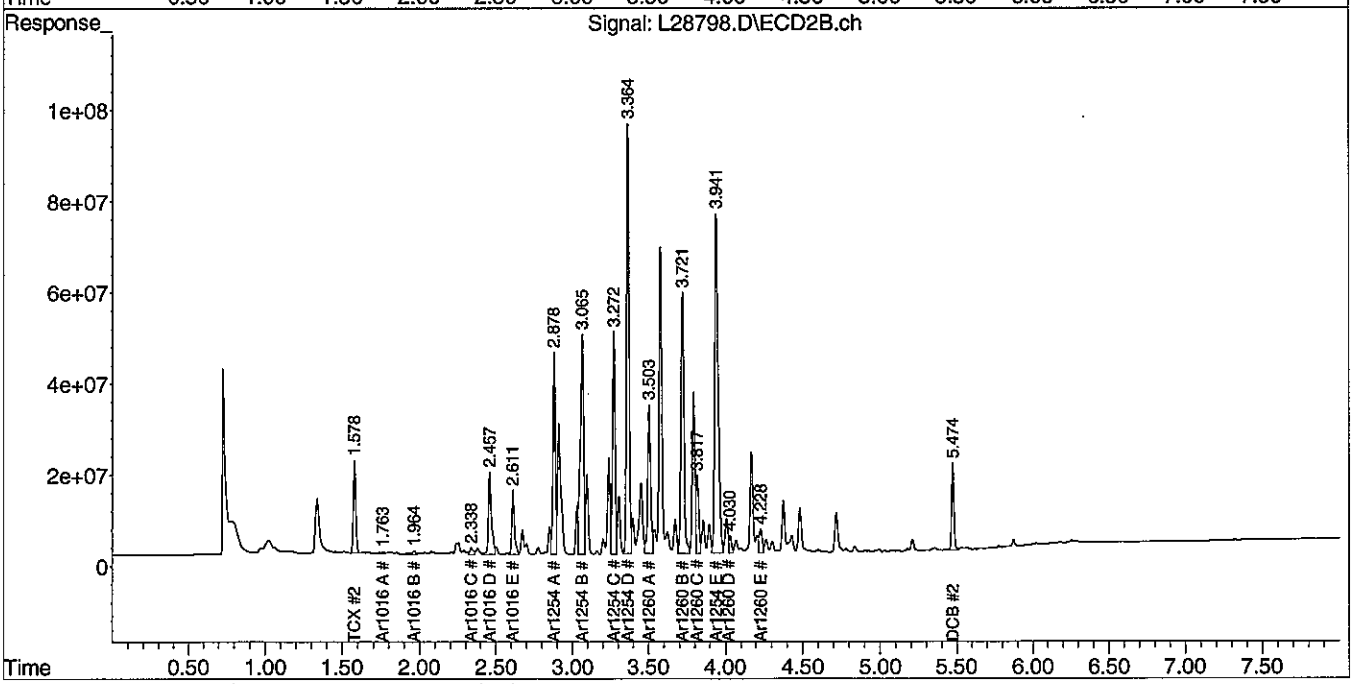
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28798.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 1:59 am
Operator : AR
Sample : 72132-25,1:5,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 02:29:22 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-26
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	50
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-133

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	25	U
PCB-1221	25	U
PCB-1232	25	U
PCB-1242	25	U
PCB-1248	25	U
PCB-1254	25	**315**
PCB-1260	25	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-26,1:50,A/C
Data File: L28799.D
Dilution Factor: 50.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	291.5	315.2	7.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

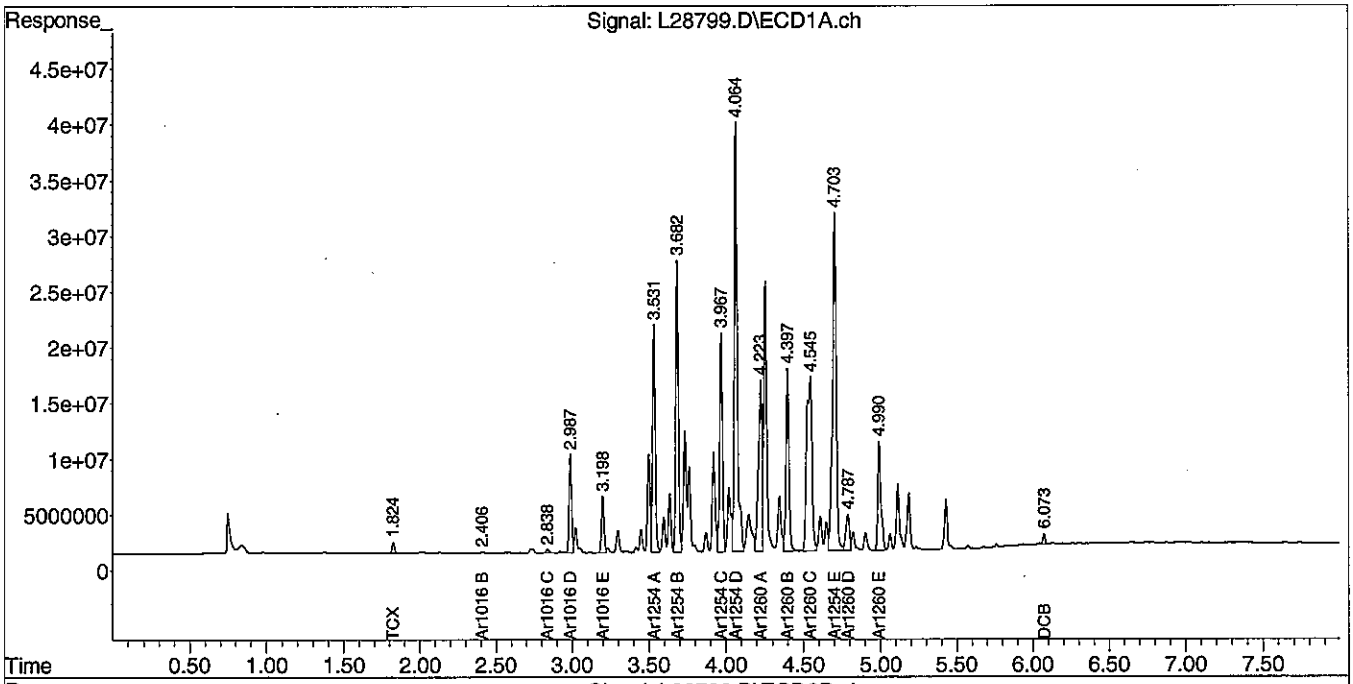
Comments: _____

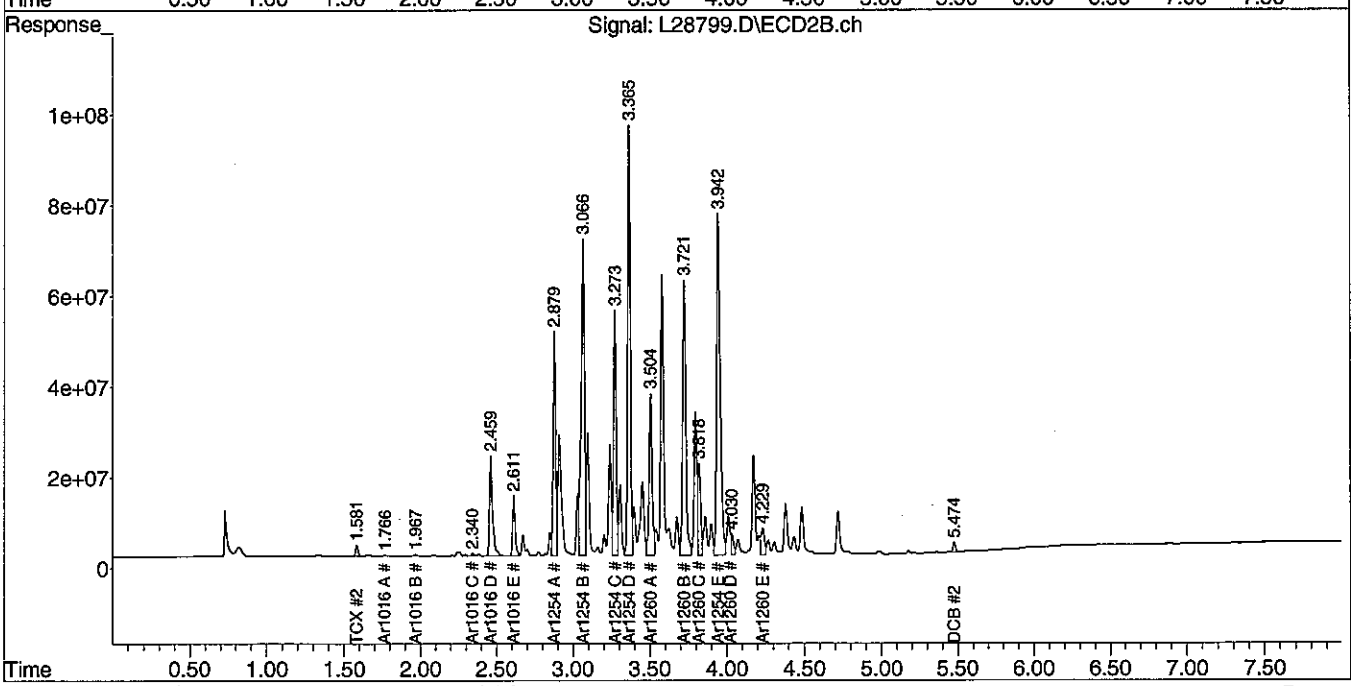
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28799.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 2:10 am
Operator : AR
Sample : 72132-26,1:50,A/C
Misc : SOIL
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 02:29:24 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-27
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	200
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-134

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	100	U
PCB-1221	100	U
PCB-1232	100	U
PCB-1242	100	U
PCB-1248	100	U
PCB-1254	100	**1750**
PCB-1260	100	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-27,1:200,A/C
Data File: L28800.D
Dilution Factor: 200.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1643.7	1750.5	6.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

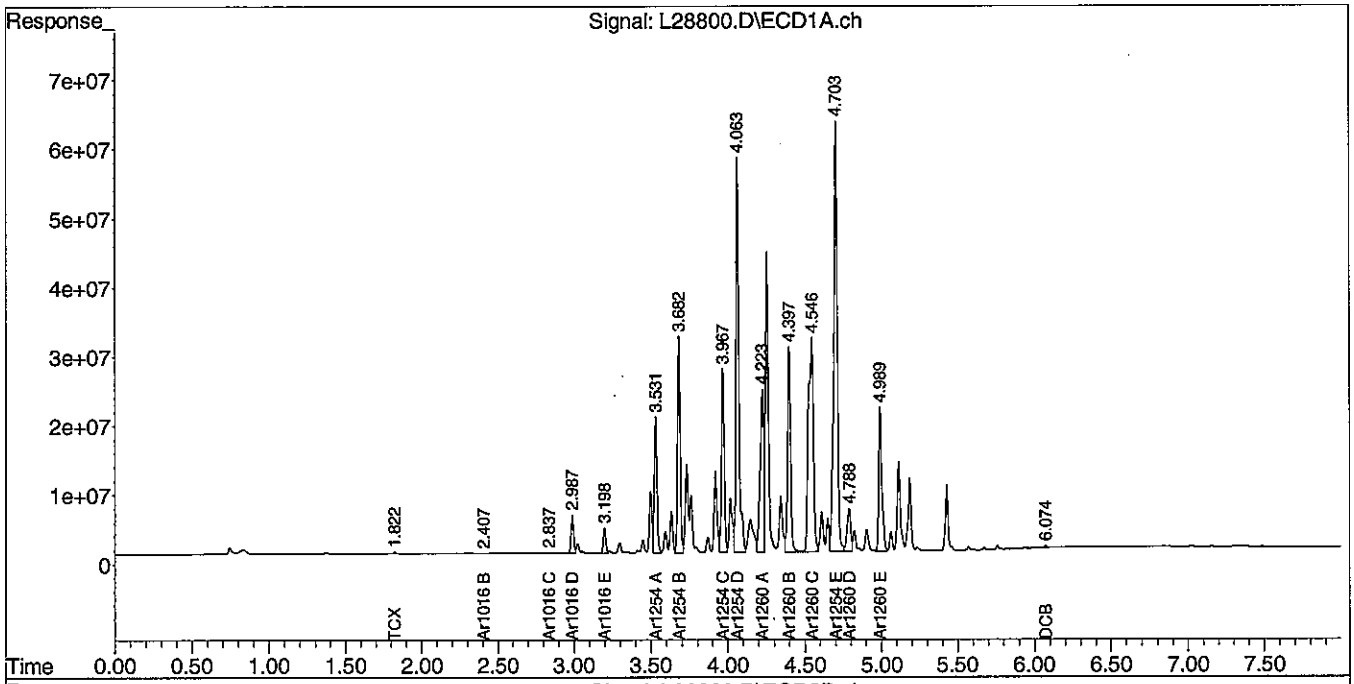
Comments: _____

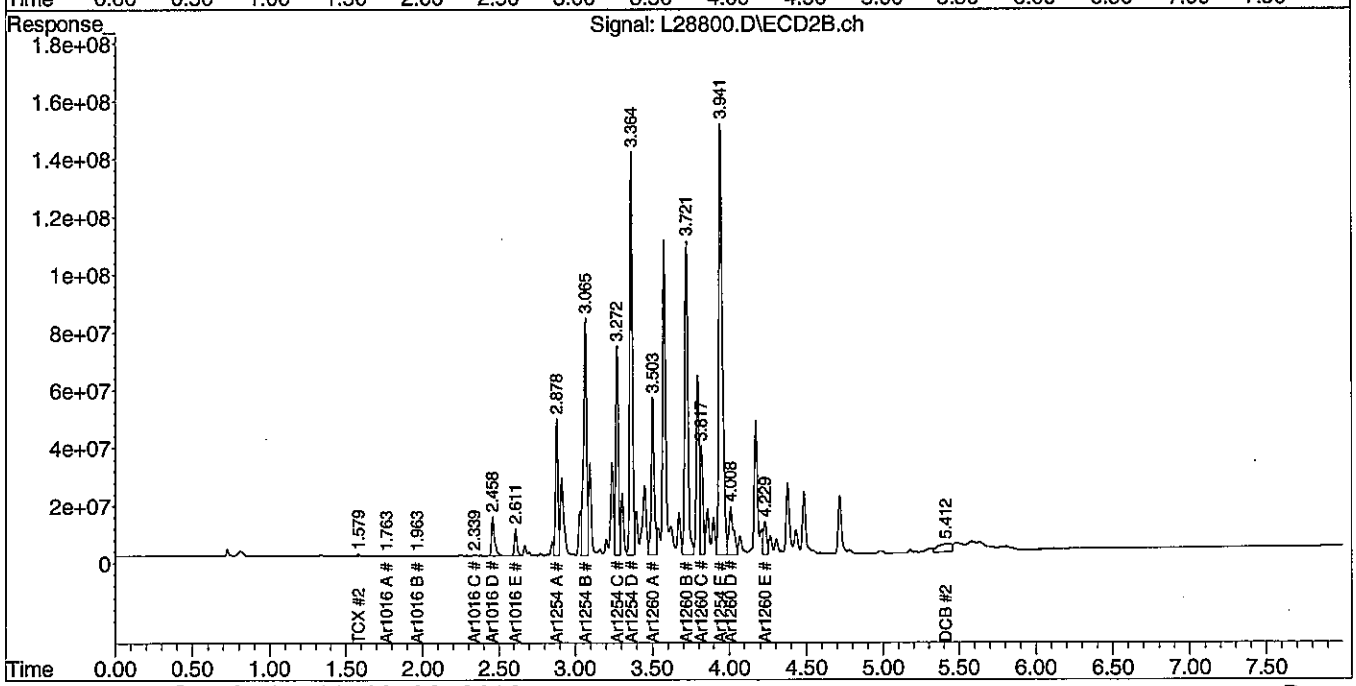
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28800.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 2:20 am
Operator : AR
Sample : 72132-27,1:200,A/C
Misc : SOIL
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 02:29:26 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72132-28
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	400
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-135

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	200	U
PCB-1221	200	U
PCB-1232	200	U
PCB-1242	200	U
PCB-1248	200	U
PCB-1254	200	**3260**
PCB-1260	200	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-28,1:400,A/C
Data File: L28811.D
Dilution Factor: 400.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	2988.0	3258.5	8.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

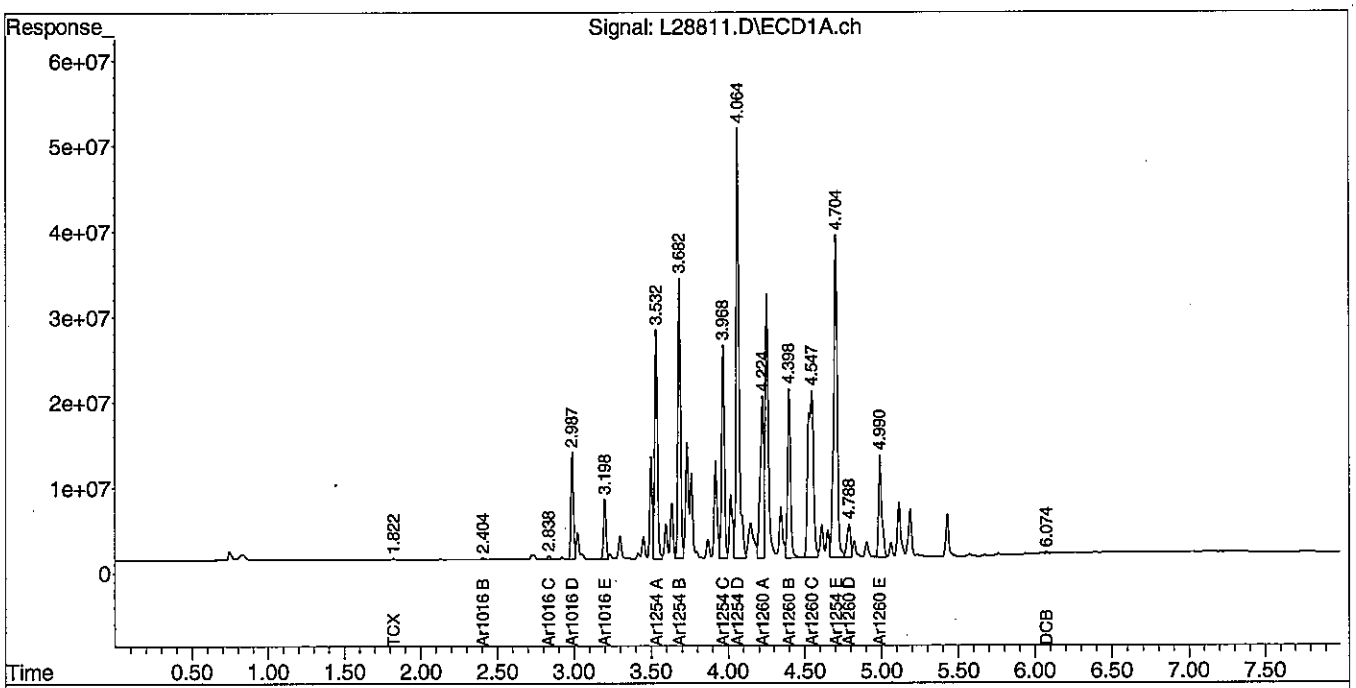
Comments: _____

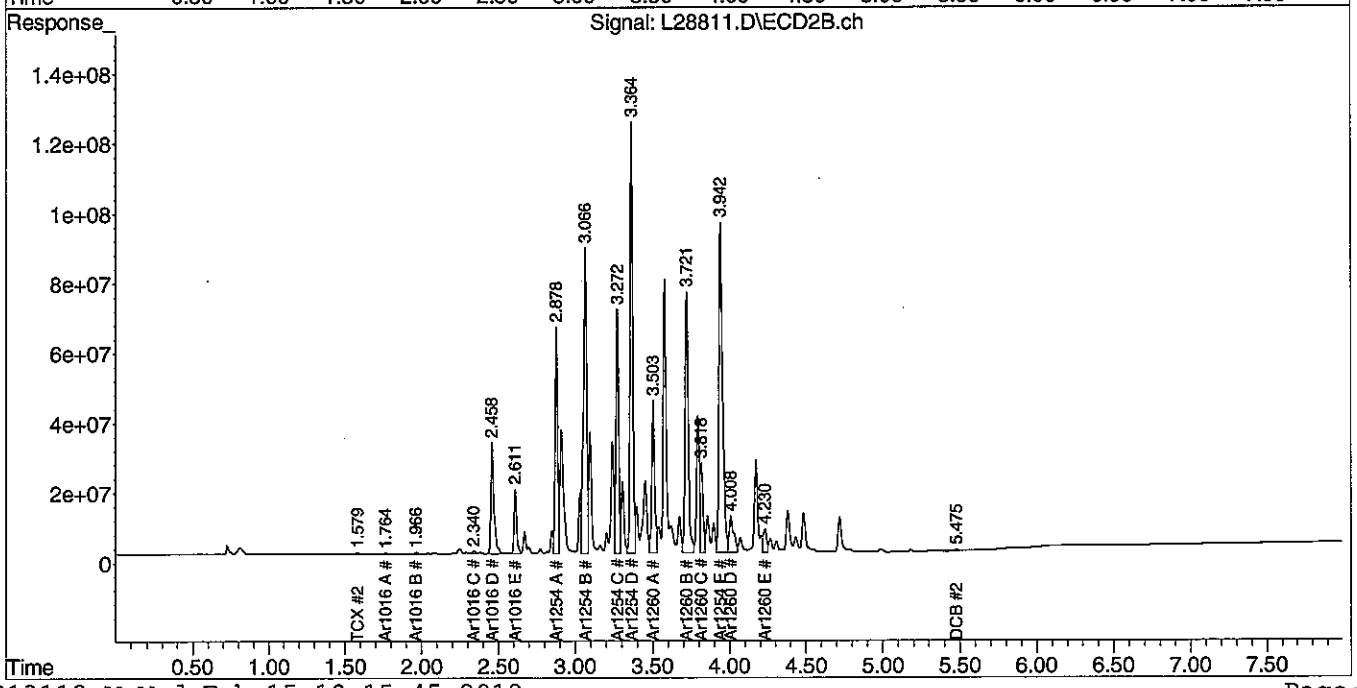
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28811.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 5:55 am
Operator : AR
Sample : 72132-28,1:400,A/C
Misc : SOIL
ALS Vial : 30 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:14:03 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-29
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	200
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-136

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	100	U
PCB-1221	100	U
PCB-1232	100	U
PCB-1242	100	U
PCB-1248	100	U
PCB-1254	100	**1650**
PCB-1260	100	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-29,1:200,A/C
Data File: L28802.D
Dilution Factor: 200.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1518.8	1648.1	8.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

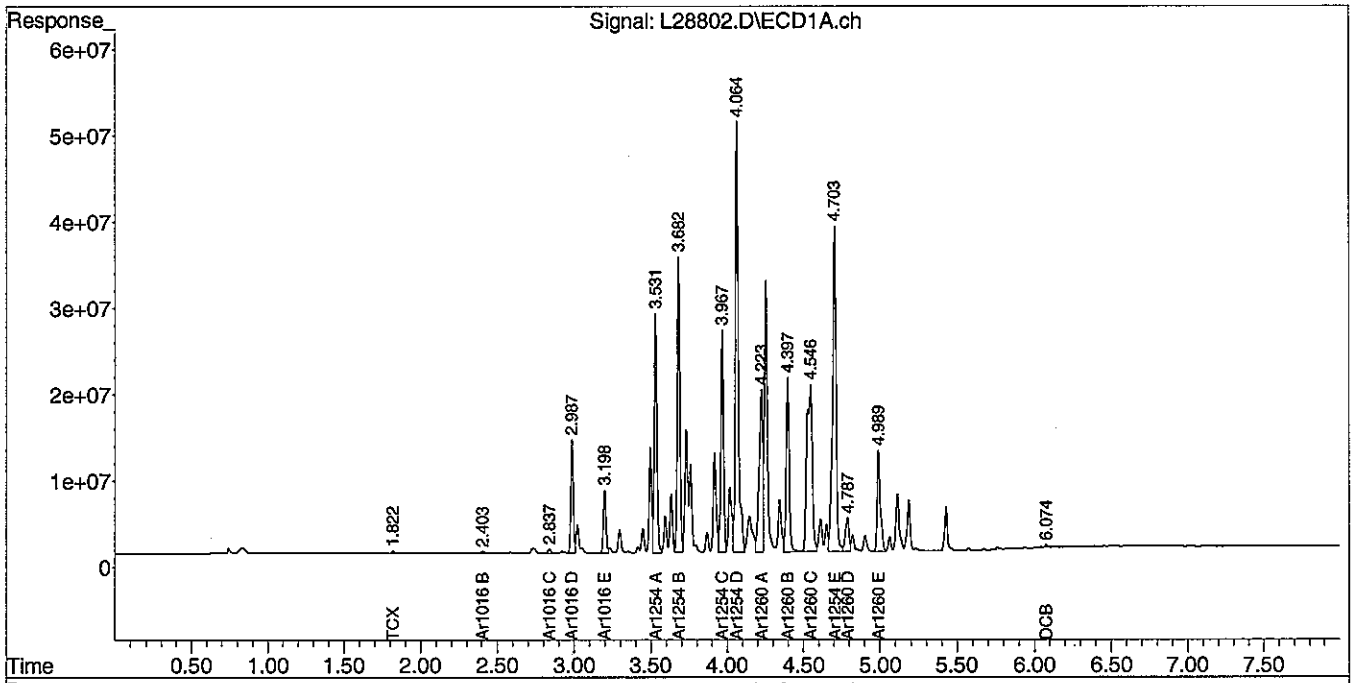
Comments: _____

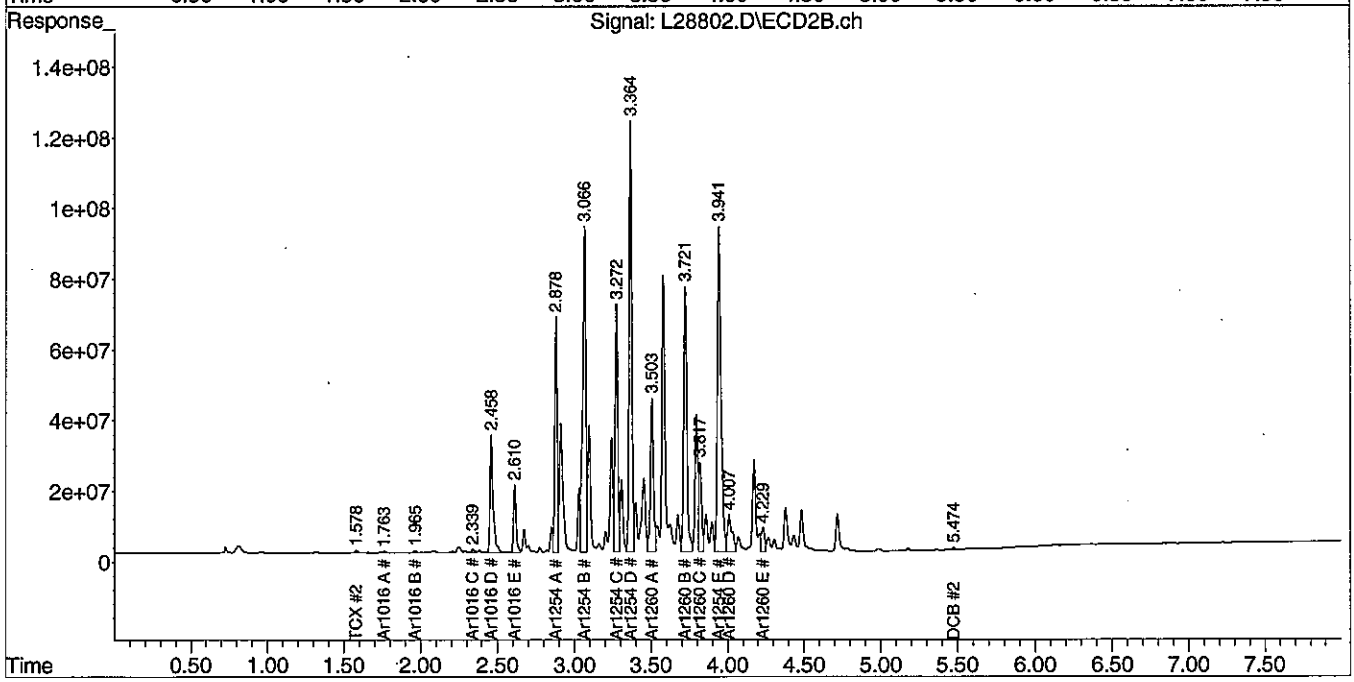
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28802.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 2:41 am
Operator : AR
Sample : 72132-29,1:200,A/C
Misc : SOIL
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 03:20:33 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72132-30
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	200
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-137

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	100	U
PCB-1221	100	U
PCB-1232	100	U
PCB-1242	100	U
PCB-1248	100	U
PCB-1254	100	**1900**
PCB-1260	100	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-30,1:200,A/C
Data File: L28803.D
Dilution Factor: 200.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1735.9	1895.5	8.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

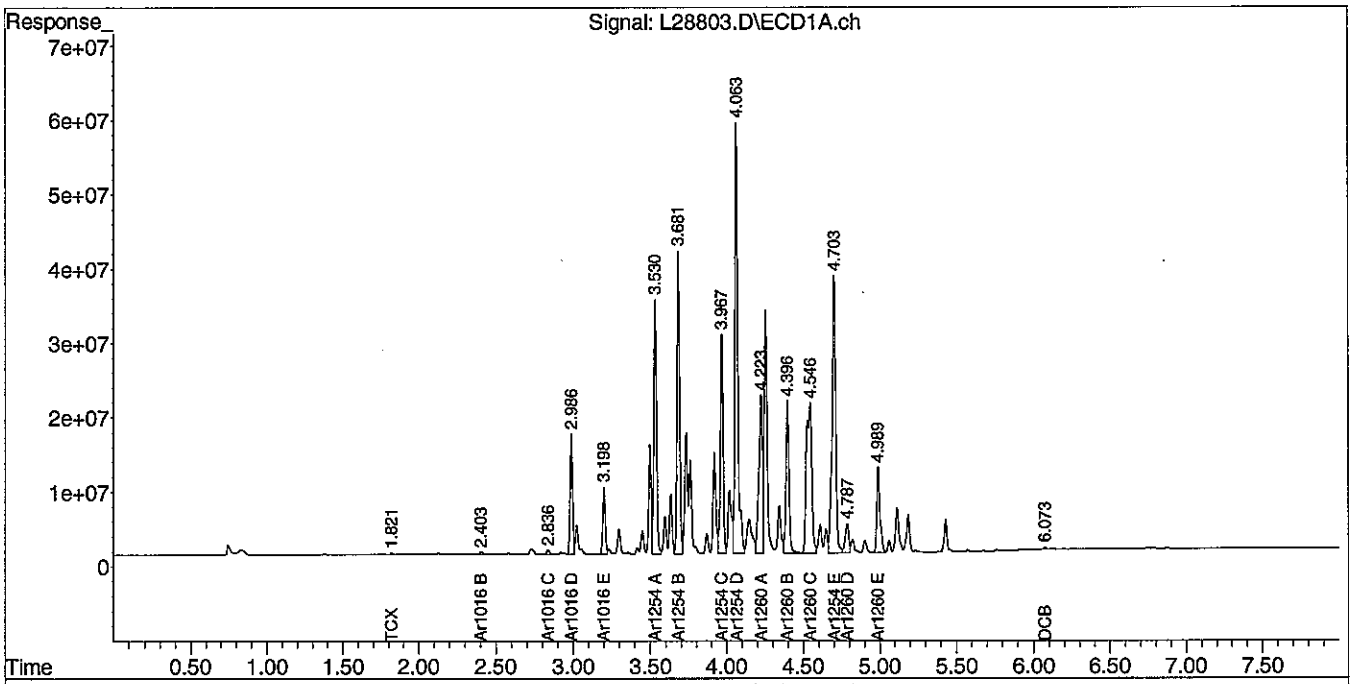
Comments: _____

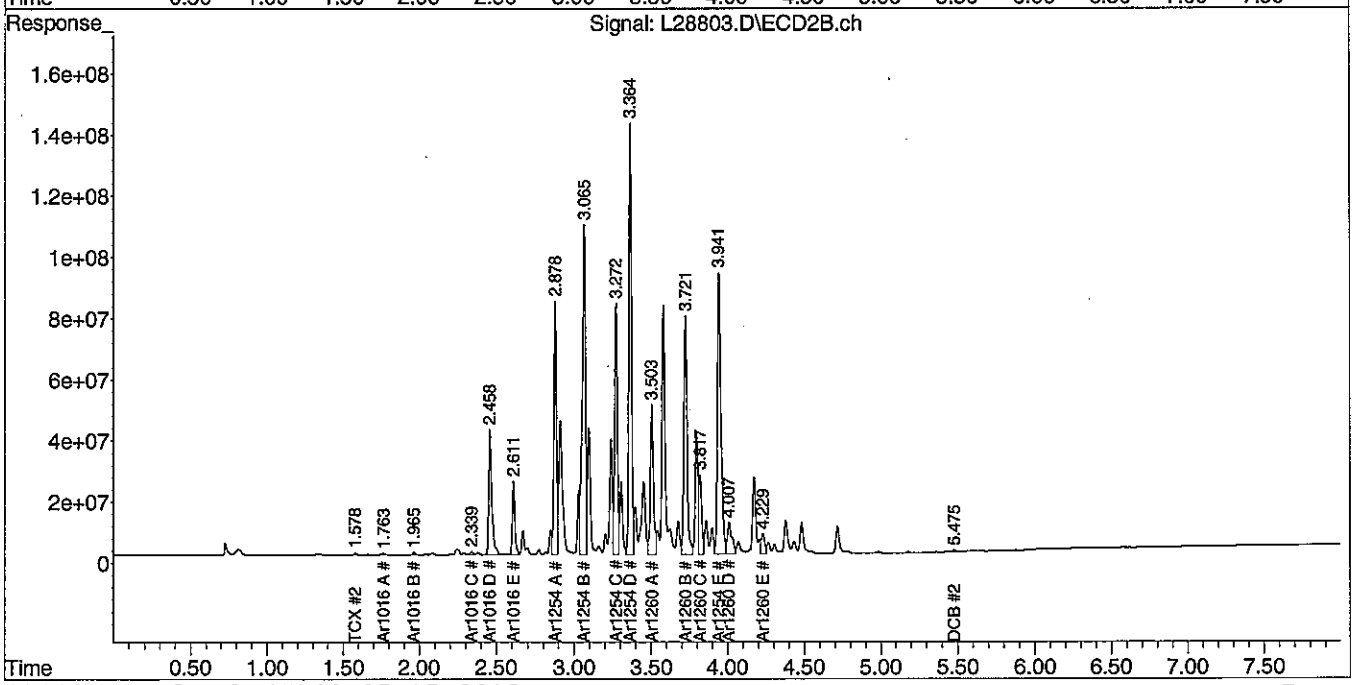
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28803.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 2:51 am
Operator : AR
Sample : 72132-30,1:200,A/C
Misc : SOIL
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 03:20:37 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-31
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	250
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-138

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	125	U
PCB-1221	125	U
PCB-1232	125	U
PCB-1242	125	U
PCB-1248	125	U
PCB-1254	125	**1310**
PCB-1260	125	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132
Sample: 72132-31,1:250,A/C
Data File: L28812.D
Dilution Factor: 250.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1204.8	1314.4	8.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

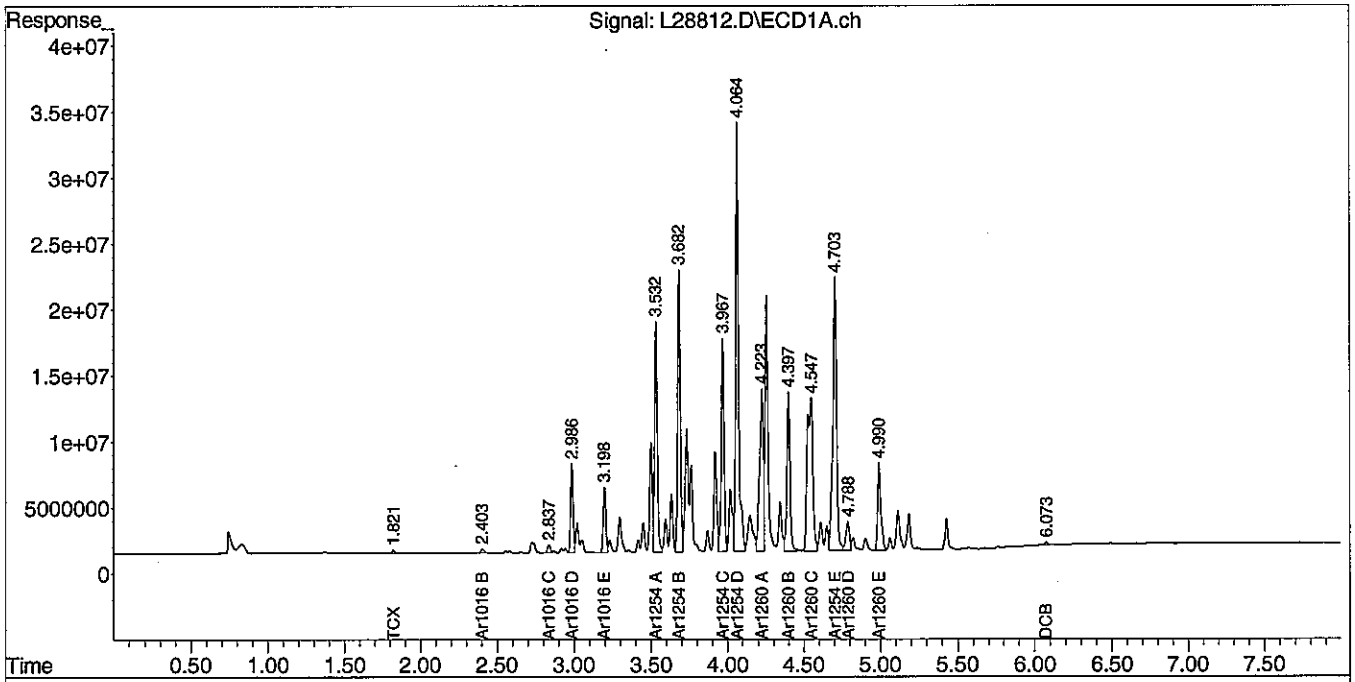
Comments: _____

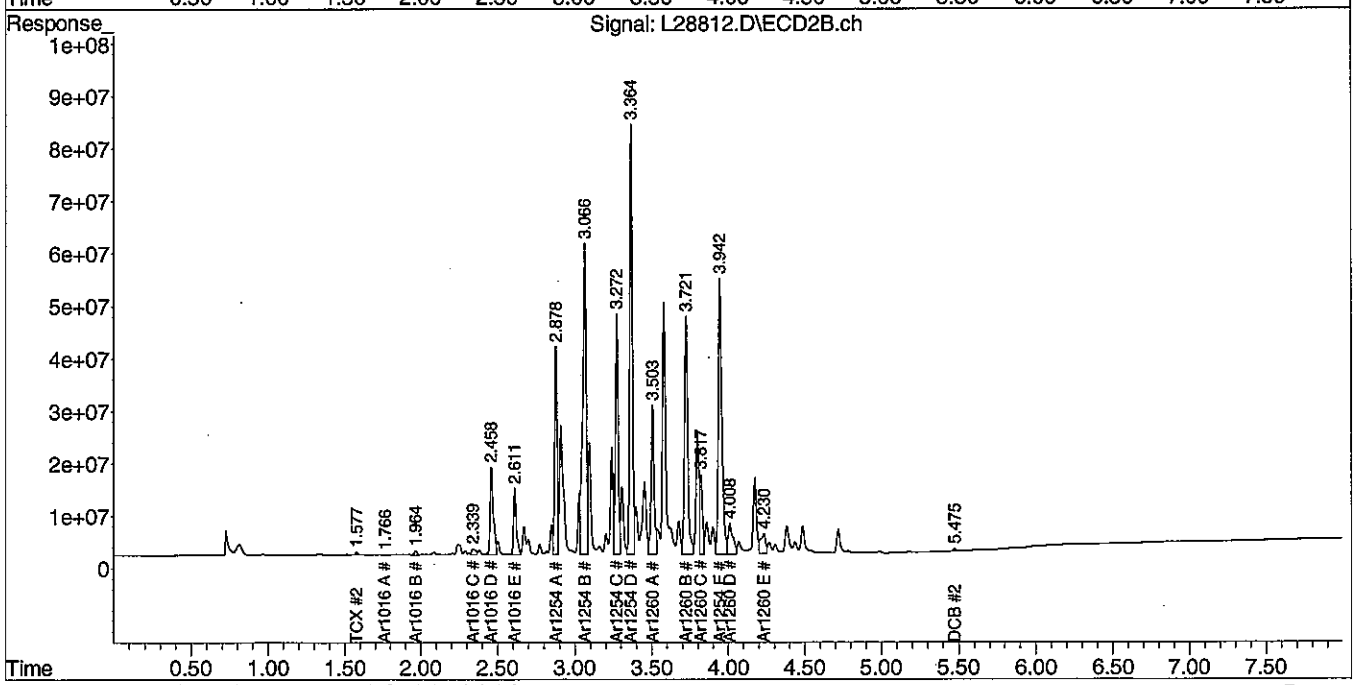
PCB FORM 10

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28812.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 6:06 am
Operator : AR
Sample : 72132-31,1:250,A/C
Misc : SOIL
ALS Vial : 31 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 10:14:05 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-32
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	02/06/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-139

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	84	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

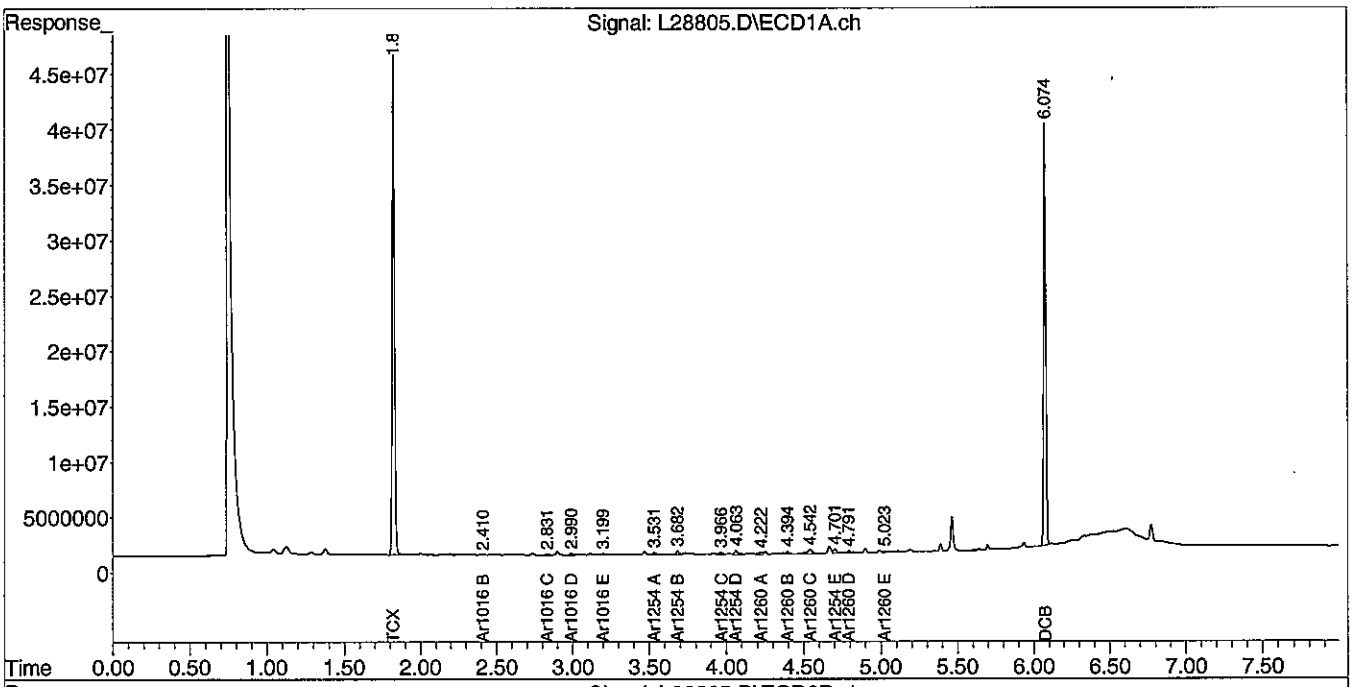
PCB Report

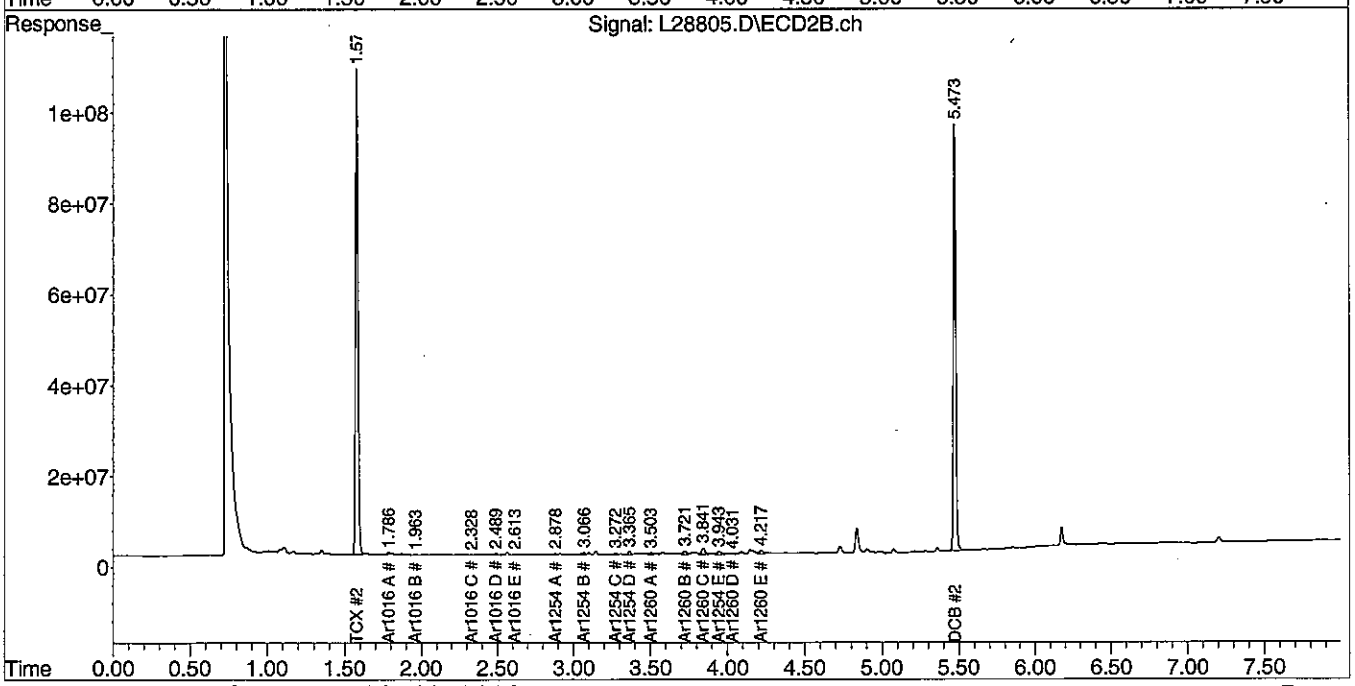
Authorized signature

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28805.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 3:11 am
Operator : AR
Sample : 72132-32,,A/C
Misc : SOIL
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 03:20:48 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 15, 2012

SAMPLE DATA

Lab Sample ID:	72132-33
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	02/07/12
Lab Receipt Date:	02/08/12
Extraction Date:	02/13/12
Analysis Date:	02/15/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-153

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit μg/wipe	Results μg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	76	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

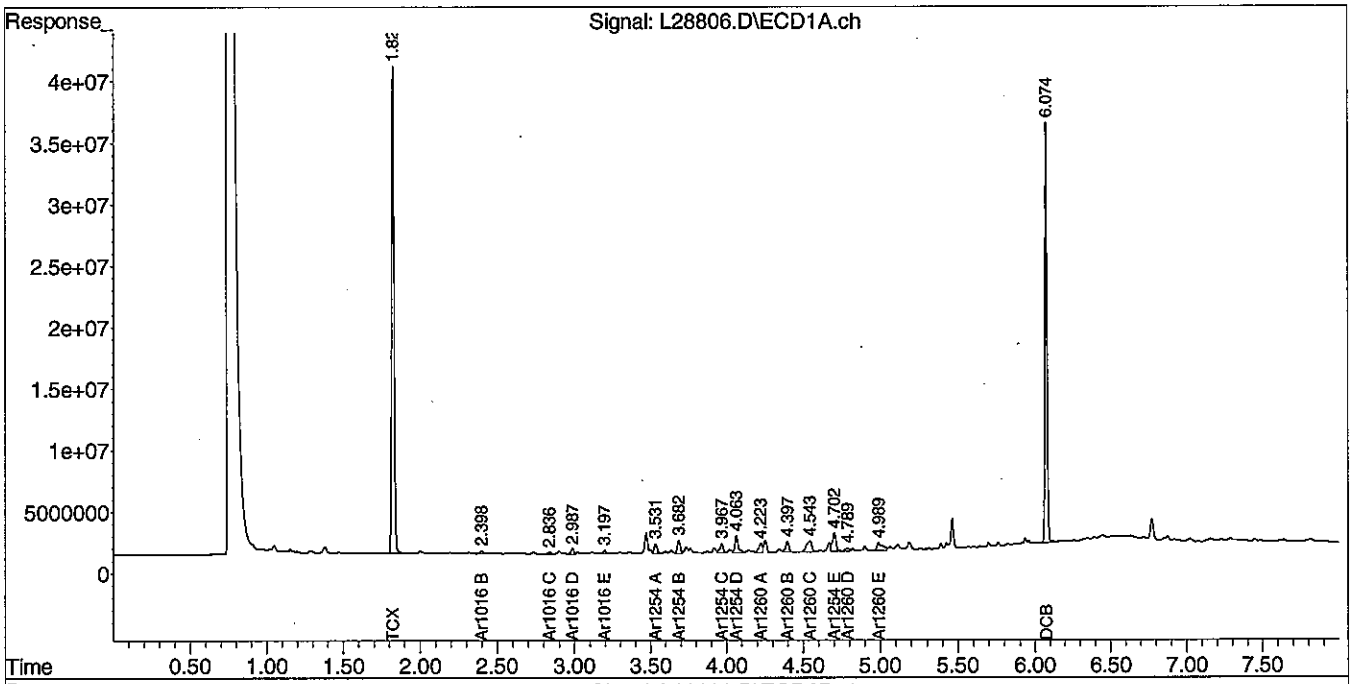
PCB Report

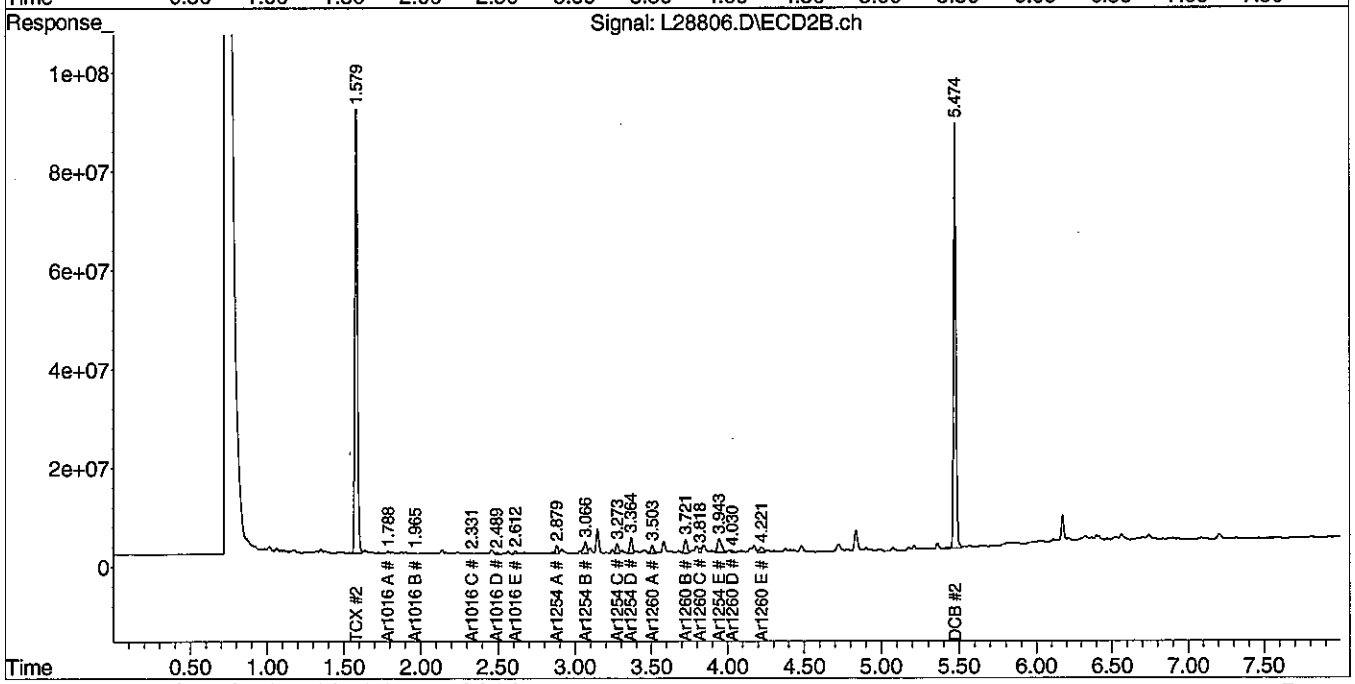
Authorized signature

Data Path : C:\msdchem\1\DATA\021412-L\
Data File : L28806.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 15 Feb 2012 3:22 am
Operator : AR
Sample : 72132-33,,A/C
Misc : SOIL
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 15 03:34:55 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B020912PSOX,,A/C	78		70		70		75	
L020912PSOX,,A/C	81		72		76		79	
LD020912PSOX,,A/C	77		70		73		78	
72132-10,,A/C	90		114		69		81	
72132-11,,A/C	74		63		68		65	
72132-12,,A/C	76		66		72		69	
72132-13,,A/C	79		66		75		72	
72132-14,,A/C	87		72		74		73	
72132-15,,A/C	74		63		71		64	
72132-16,,A/C	79		66		75		69	
72132-17,,A/C	72		81		76		64	
72132-19,,A/C	75		69		72		75	
72132-20,,A/C	80		73		77		77	

	Lower Limit	Upper Limit
SMC #1 = TCX	40	130
SMC #2 = DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB AQUEOUS
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B021412PW	87		81		70		83	
L021412PWB	87		82		73		84	
LD021412PWB	91		85		74		87	
72132-18	80		80		73		75	

		Lower Limit	Upper Limit
SMC #1 =	TCX	46	122
SMC #2 =	DCB	40	135

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B021312PSOXW,,A/C	86		79		83		80	
L021312PSOXW,,A/C	83		77		81		77	
LD021312PSOXW,,A/C	85		78		84		79	
72132-21,1:125,A/C	D		D		D		D	
72132-22,1:5,A/C	83		88		76		83	
72132-23,1:5,A/C	87		90		80		84	
72132-25,1:5,A/C	88		92		80		87	
72132-26,1:50,A/C	D		D		D		D	
72132-27,1:200,A/C	D		D		D		D	
72132-29,1:200,A/C	D		D		D		D	
72132-30,1:200,A/C	D		D		D		D	
72132-32,,A/C	88		84		87		85	
72132-33,,A/C	79		76		73		75	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72132

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B020912PSOX,,A/C	91		91		84		80	
72132-24,1:250,A/C	D		D		D		D	
72132-28,1:400,A/C	D		D		D		D	
72132-31,1:250,A/C	D		D		D		D	
72132-1,,A/C	70		I		65		57	
72132-1,MS,A/C	84		I		81		101	
72132-1,MSD,A/C	68		I		66		67	
72132-2,1:2,A./C	95		I		96		99	
72132-3,1:2,A/C	69		I		67		60	
72132-4,1:2,A/C	79		I		78		65	
72132-5,1:2,A/C	76		I		72		64	
72132-6,1:2,A/C	84		I		76		68	
72132-7,1:2,A/C	91		I		88		77	
72132-8,1:2,A/C	85		125		86		82	
72132-9,1:2,A/C	80		96		77		70	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72132

Non-spiked sample: B020912PSOX,,A/C

Spike: L020912PSOX,,A/C

Spike duplicate: LD020912PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	160	80		154	77		3.9	
PCB 1260	200	200	60	130	30	0	163	82		162	81		0.7	
PCB 1016 #2	200	200	65	140	30	0	158	79		159	80		0.5	
PCB 1260 #2	200	200	60	130	30	0	168	84		167	84		0.6	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB AQUEOUS
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: L

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72132

Non-spiked sample: B021412PW

Spike: L021412PWB

Spike duplicate: LD021412PWB

COMPOUND	LCS SPIKE ADDED (ug/L)	LCSD SPIKE ADDED (ug/L)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/L)	SPIKE RESULT (ug/L)	SPIKE % REC	#	SPIKE DUP RESULT (ug/L)	SPIKE DUP % REC	#	RPD	#
PCB AR 1016	2.0	2.0	70	130	25	0.00	1.73	87		1.77	89		2.3	
PCB AR 1260	2.0	2.0	70	130	25	0.00	1.71	86		1.74	87		1.7	
PCB Ar1016 #2	2.0	2.0	70	130	25	0.00	1.60	80		1.58	79		1.3	
PCB Ar1260 #2	2.0	2.0	70	130	25	0.00	1.79	90		1.79	90		0.0	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been volume adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

PCB WIPE
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72132

Non-spiked sample: B021312PSOXW,,A/C

Spike: L021312PSOXW,,A/C

Spike duplicate: LD021312PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	65	140	30	0	1.7	83		1.7	86		3.3	
PCB 1260	2.0	2.0	60	130	30	0	1.6	80		1.7	83		3.3	
PCB 1016 #2	2.0	2.0	65	140	30	0	1.5	73		1.5	75		2.7	
PCB 1260 #2	2.0	2.0	60	130	30	0	1.6	82		1.7	86		4.7	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: L

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72132

Non-spiked sample: 72132-1,,A/C

Spike: 72132-1,MS,A/C

Spike duplicate: 72132-1,MSD,A/C

COMPOUND	MS SPIKE ADDED (ug/kg)	MSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	265	270	65	140	30	0	231	87		224	83		3.0	
PCB 1260	265	270	65	140	30	0	358	135		342	126		4.6	
PCB 1016 #2	265	270	65	140	30	0	255	96		203	75		22.6	
PCB 1260 #2	265	270	65	140	30	0	243	92		259	96		6.6	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 6.0, 4.9, 8.0 °C
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: 2/8/12

Project Name: Umaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:

Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VBS-140	2/7/12	8:25					X						S	1		72132.1
UMSC-VBS-141	2/7/12	8:10					X						S	1		.2
UMSC-VBS-142	2/7/12	8:30					X						S	1		.3
UMSC-VBS-143	2/7/12	8:40					X						S	1		.4
UMSC-VBS-144	2/7/12	8:55					X						S	1		.5
UMSC-VBS-145	2/7/12	9:00					X						S	1		.6
UMSC-VBS-146	2/7/12	9:05					X						S	1		.7
UMSC-VBS-147	2/7/12	9:10					X						S	1		.8
UMSC-VBS-148	2/7/12	9:15					X						S	1		.9
UMSC-VBS-149	2/7/12	9:20					X						S	1		.10

Email Results to: awallace@WoodardCurran.com

Comments, Additional Analyses, or Special Instructions:

** List requested metals here

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [x] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI
- Other:

State Standard: _____ (eg. S-1 or GW-1)

EDD Required: Y* N

Type: _____

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: [signature]	Date: 2/7/12	Time: 11:15	Received By: [signature] G.C.
Relinquished By: [signature] G.C.	Date: 02/08/12	Time: 08:05	Received By: [signature]
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 6.0, 4.9, 8.0 °C
3) Received in good condition: (Y) or N
4) pH checked by: DV 2/8/12
5) Labels checked by: 2/8/12

Project Name: Maine Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:
Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please write preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VBB-122	2/1/12	11:15					X						Brick	1		72132-11
UMSC-VBC-123	2/1/12	13:00					X						C	1		-12
UMSC-VBC-124	2/1/12	12:20					X						C	1		-13
UMSC-VBC-125	2/1/12	12:30					X						C	1		-14
UMSC-VBC-126	2/1/12	10:50					X						C	1		-15
UMSC-VBP-127	2/1/12	13:30					X						Plaster	1		-16
UMSC-VBS-150	2/7/12	9:25					X						S	1		-17
UMSC-VBA-151	2/7/12	9:30					X						SW	1	6.0	-18
UMSC-VBB-152	2/7/12	10:45					X						Brick	1		-19
* UMSC-VBB-154	2/7/12	11:25					X						Brick	1		-20

Email Results to: awallace@WoodardCurran.com

Turnaround Time (TAT): ☐ 24 Hours* ☐ 48 Hours* ☐ 72 Hours* ☒ 5 Days* ☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here
* Sample has 11:15 Time on Label on 2/8/12
Amber liter 6.0 pH, (-) for CL when tested with KI paper. DV 2/8/12

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply

Report Type: ☐ MCP* ☒ Level II* ☐ CTRCP* ☐ Level III* ☐ DOD* ☐ Level IV* ☐ Standard

State: ☐ NH ☐ MA ☒ ME ☐ CT ☐ RI Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* (N)
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Date: 2/7/12	Time: 11:15	Received By: G.C.
Relinquished By: G.C.	Date: 02/08/12	Time: 08:05	Received By:
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 6.0, 4.9, 8.0°C
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: 2/8/12

Project Name: Umaine Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:

Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWM-128	2/6/12	14:15					X						WP	1		72132 -21
UMSC-VWM-129	2/6/12	14:25					X						WP	1		.22
UMSC-VWM-130	2/6/12	14:35					X						WP	1		.23
UMSC-VWM-131	2/6/12	14:50					X						WP	1		.24
UMSC-VWM-132	2/6/12	15:00					X						WP	1		.25
UMSC-VWM-133	2/6/12	15:10					X						WP	1		.26
UMSC-VWM-134	2/6/12	15:20					X						WP	1		.27
UMSC-VWM-135	2/6/12	15:30					X						WP	1		.28
UMSC-VWM-136	2/6/12	15:40					X						WP	1		.29
* UMSC-VWM-137	2/6/12	16:00					X						WP	1		.30

Email Results to: aWallace@WoodardCurran.com

Comments, Additional Analyses, or Special Instructions:
* Time missing on Lable DW 2/8/12

** List requested metals here

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [x] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: _____ (eg. S-1 or GW-1)

EDD Required: Y* N

Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Date: 2/7/12	Time: 11:15	Received By: [signature] G.C.
Relinquished By: [signature] G.C.	Date: 02/08/12	Time: 08:05	Received By: [signature]
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 6.0, 4.9, 8.0°
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: JZ 2/8/12

Project Name: Umaine Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:

Preservation Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWM-138	2/6/12	16:10					X						WP	1		72132-31
UMSC-VWM-139	2/6/12	16:20					X						WP	1		32
UMSC-VWM-153	2/7/12	10:50					X						WP	1		33

OW 2/8/12

Email Results to:
aWallace@WoodardCurran.com

Turnaround Time (TAT)
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☒ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:
** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH
☐ MA
☒ ME
☐ CT
☐ RI
Other:

State Standard:
(eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Date: 2/7/12	Time: 11:15	Received By: G.C.
Relinquished By: G.C.	Date: 02/08/12	Time: 08:05	Received By:
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72132 COOLER NUMBER: 196, 99, 100

CLIENT: Woodard + Curran NUMBER OF COOLERS: 3

PROJECT: Maine Stewart Commons

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): KEZ/SLK DATE COOLER RECEIVED/OPENED: 02/08/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: General Courier # 480886

4. Were custody seals on the outside of cooler? Y N tape
How many & where: tape Seal Date: Seal Name:

5. Did the custody seals arrive unbroken and intact upon arrival? Y N

6. COC#: N/A

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? No ice Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 6.0°C, 4.9°C, 8°C

B. Log-In: Date samples were logged in: 2/8/12 By: DW

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N See COC DW 2/8/12

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N

17. Was sufficient amount of sample sent for the tests indicated? Y N See Non Compliance form DW 2/8/12

18. Were all samples submitted within holding time? Y N

19. Were bubbles absent in VOA samples? Y N*

If NO, List Sample ID's, Lab #s, and the size of the bubble(s):

*When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): Date: 2/8/12

analytics environmental laboratory LLC

SAMPLE RECEIPT
NON-COMPLIANCE NOTIFICATION
(SENT VIA FACSIMILE)

DATE 2/8/12 FROM Analytics Environmental lab

FAX CONTACT Amy Wallace FAX NUMBER (603) 430-2151

CLIENT Woodard + Curran LAB NUMBER (603) 436-5111

The exceptions noted below were found on the sample(s) received on the attached Chain of Custody (COC) form. These exceptions may render the data results as non-defensible. Analytics will continue to proceed with the analysis of the sample(s) unless notified in writing to stop the analysis. This document may become part of the final report.

Please check the appropriate box and sign below and fax back to "Sample Receipt" at 603-430-2151.

Exceptions:

- [x] Sample(s) not on ice or not at 4°C ± 2°C — Cooler "100" received at 8.0°C
- [ ] Sample(s) received unpreserved or not at the proper pH. (pH was adjusted at the laboratory)
- [ ] Sample(s) received in incorrect containers — Amber liter "UMSC VBA .151" 1/4 full
- [x] Insufficient sample volume received (Detection limits may be elevated due to this exception)
- [ ] Trip Blank provided in cooler, but not recorded on the chain of custody
- [ ] Other: _____

Acknowledgment:

- [ ] **Please do not analyze/report Trip Blank, proceed with other analyses**
- [x] **Proceed with the analysis.** see attached email
- [ ] **Please stop the analysis and wait for further instructions.**

Signed:_____ **Print Name:**_____

Date:_____

AnalyticsLLC:AEL Documents LLC:* B_FORMS:sample receipt noncompliance Rev. 0, 3/10/03

From: "Amy Wallace" <awallace@woodardcurran.com>
Subject: **RE: UMaine Stewart**
Date: February 9, 2012 4:25:03 PM EST
To: "Casey Payne" <cpayne@analyticslab.com>
Cc: "Kate Zaleski" <kzaleski@analyticslab.com>

Casey -

Regarding your questions on the attached chain of custody for Analytics project 72132:

- please proceed with analysis of the samples in the cooler received at 8 degrees C.

- please proceed with analysis of aqueous sample UMSC-VBA-151, regardless of sample volume; we are okay with elevated detection limit.

- please note that the sample matrix noted for aqueous sample UMSC-VBA-151 is not surface water as noted on the chain (SW), but is actually a field blank collected with DI water.

- sample time discrepancy on sample UMSC-VBB-154 - please use the time noted on the chain of custody.

Thank you,
Amy

-----Original Message-----
From: Casey Payne [mailto:cpayne@analyticslab.com]
Sent: Thursday, February 09, 2012 12:43 PM
To: Amy Wallace
Cc: Kate Zaleski
Subject: UMaine Stewart

Please see attachment and fax/email back. Also please note sample time discrepancy on "UMSC-VBB-154".

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

February 22, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72199
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Samples 72199-11 and 72199-13 required dilutions due to concentrations of PCB 1254 detected in the sample that exceeded the calibration of the instrument.

Surrogate Decachlorobiphenyl (DCB) recovery could not be determined on column#1 for samples 72199-8 and 72199-11 due to matrix interference. Surrogate results were reported off of column#2 without qualification.

The closing continuing calibration standard (file#L28871SC & L28872SC)) had low recovery for PCB 1260 (84%) and PCB 1254 (84%) on column#1 and low recovery for surrogate Decachlorobiphenyl (76%) on column#2. The analytical window was analyzed previously with similar results. Results were reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72199

Revision: Rev. 0

Re: 222822-UMaine Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 16 February 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 2/24/2012

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

CLIENT: Woodard & Curran **REPORT NUMBER: 72199** **REV: Rev. 0**

PROJECT: 222822-UMaine Stewart Commons (Project No: 222822)

Lab Number	Sample Date	Station Location	Analysis	Comments
72199-1	02/09/12	UMSC-VWG-157	EPA 8082 (PCBs only)	
72199-2	02/09/12	UMSC-VWG-158	EPA 8082 (PCBs only)	
72199-3	02/15/12	UMSC-VWM-159	EPA 8082 (PCBs only)	
72199-4	02/15/12	UMSC-VWM-160	EPA 8082 (PCBs only)	
72199-5	02/16/12	UMSC-VWM-163	EPA 8082 (PCBs only)	
72199-6	02/16/12	UMSC-VWM-164	EPA 8082 (PCBs only)	
72199-7	02/07/12	UMSC-VBB-155	EPA 8082 (PCBs only)	
72199-8	02/09/12	UMSC-VBS-156	EPA 8082 (PCBs only)	
72199-9	02/15/12	UMSC-VBC-161	EPA 8082 (PCBs only)	
72199-10	02/16/12	UMSC-VBP-162	EPA 8082 (PCBs only)	
72199-11	02/16/12	UMSC-VBS-165	EPA 8082 (PCBs only)	
72199-12	02/16/12	UMSC-VBP-166	EPA 8082 (PCBs only)	
72199-13	02/16/12	UMSC-VBS-167	EPA 8082 (PCBs only)	

analytics environmental laboratory LLC

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 21, 2012

SAMPLE DATA

Lab Sample ID:	B021612PSOX RR
Matrix:	Soil
Percent Solid:	100
Dilution Factor:	1.0
Collection Date:	
Lab Receipt Date:	
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	82	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

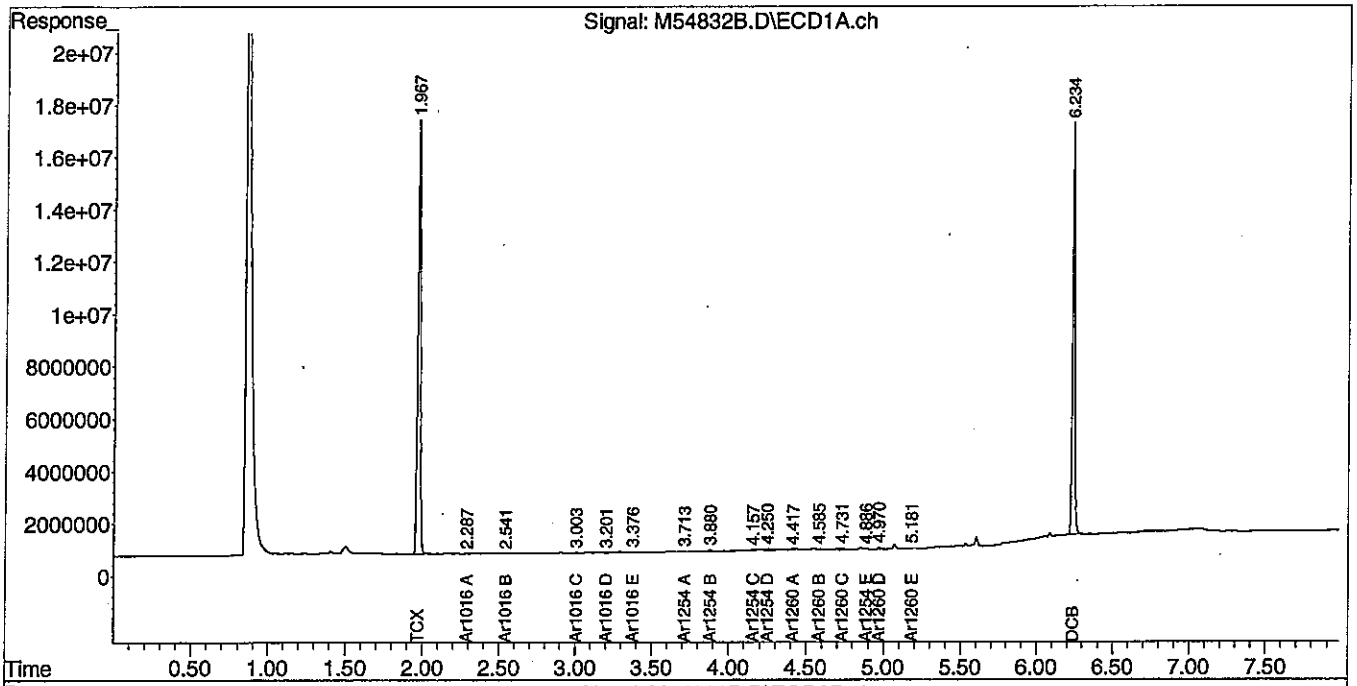
PCB Report

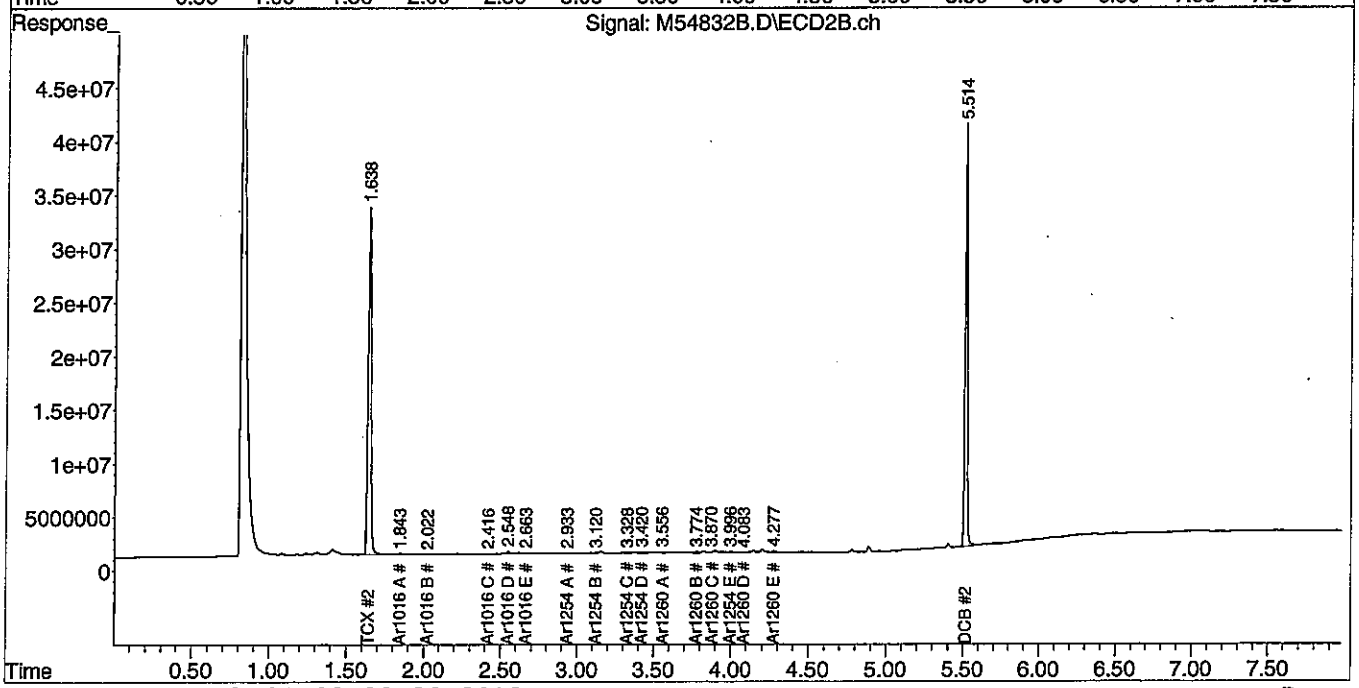
Authorized signature

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54832B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 12:10 pm
Operator : MG
Sample : B021612PSOX,RR,A/C
Misc : SOIL
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 08:22:28 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 21, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: 222822-UMaine Stewart Commons

Project Number: 222822

Field Sample ID: Lab QC

Lab Sample ID: B021612PSOX RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 02/16/12
Analysis Date: 02/21/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

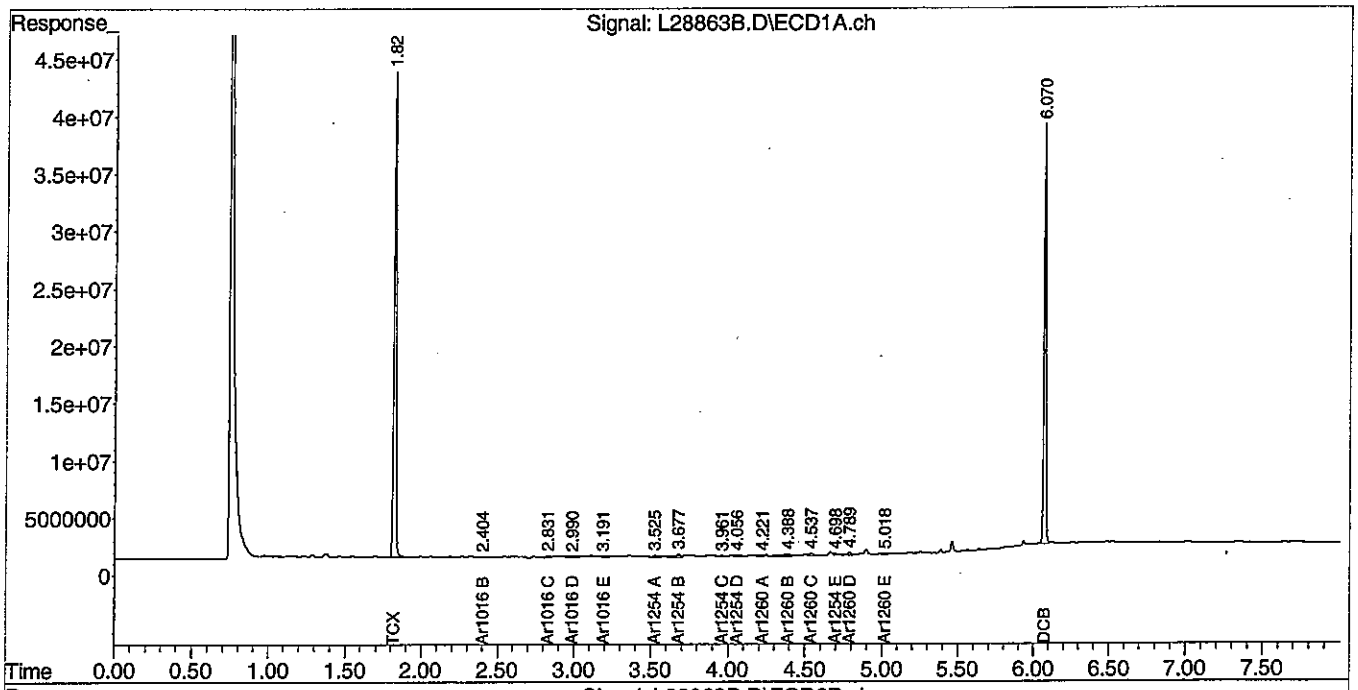
PCB Report

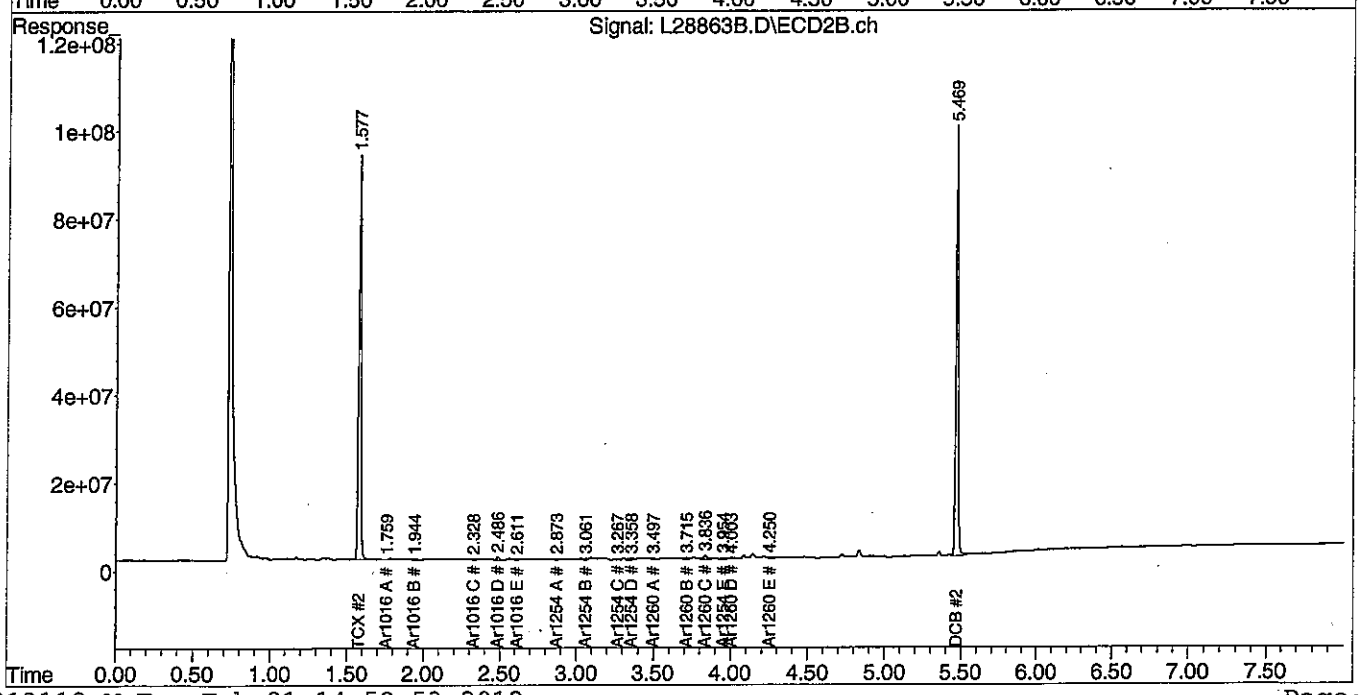
Authorized signature

Data Path : C:\msdchem\1\DATA\022112-L\
Data File : L28863B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2012 12:55 pm
Operator : JL
Sample : B021612PSOX,RR3,,A/C
Misc :
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 14:30:26 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 21, 2012

SAMPLE DATA

Lab Sample ID:	72199-1
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	02/09/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-157

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.1**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	77	%
Decachlorobiphenyl	75	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCBWipe

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-1
Data File: M54833.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.1	1.1	1.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

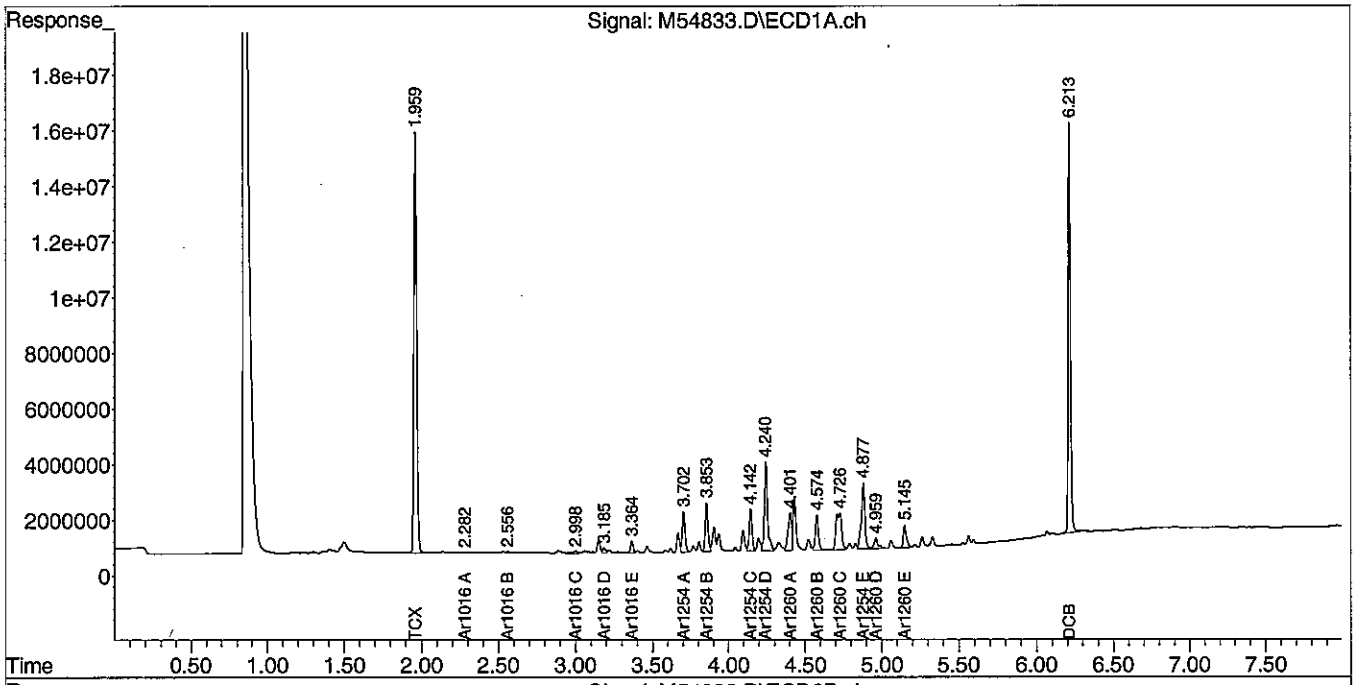
Comments: _____

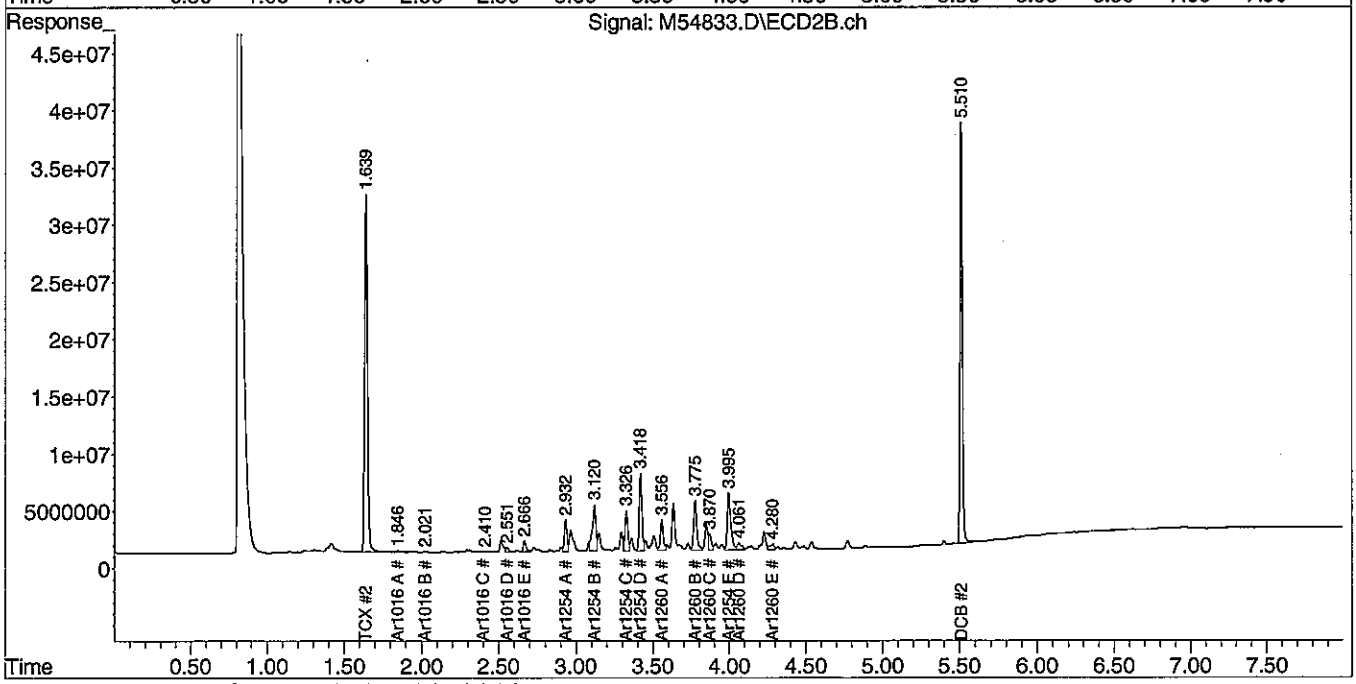
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54833.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 12:20 pm
Operator : MG
Sample : 72199-1
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 10:30:09 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

CLIENT SAMPLE ID

Project Name: 222822-UMaine Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWG-158

Lab Sample ID: 72199-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 02/09/12
Lab Receipt Date: 02/16/12
Extraction Date: 02/16/12
Analysis Date: 02/20/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**2.4**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	85	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCBWipe

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-2
Data File: M54834.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	2.4	2.3	2.4	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

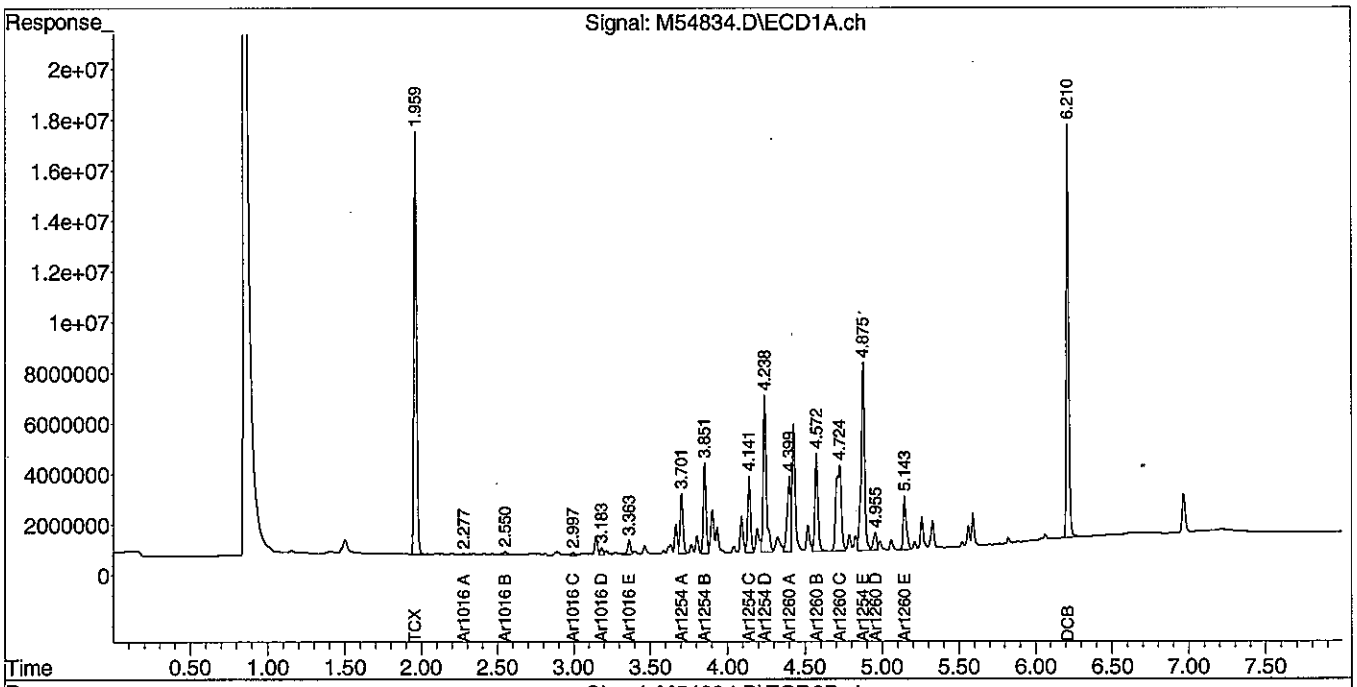
Comments: _____

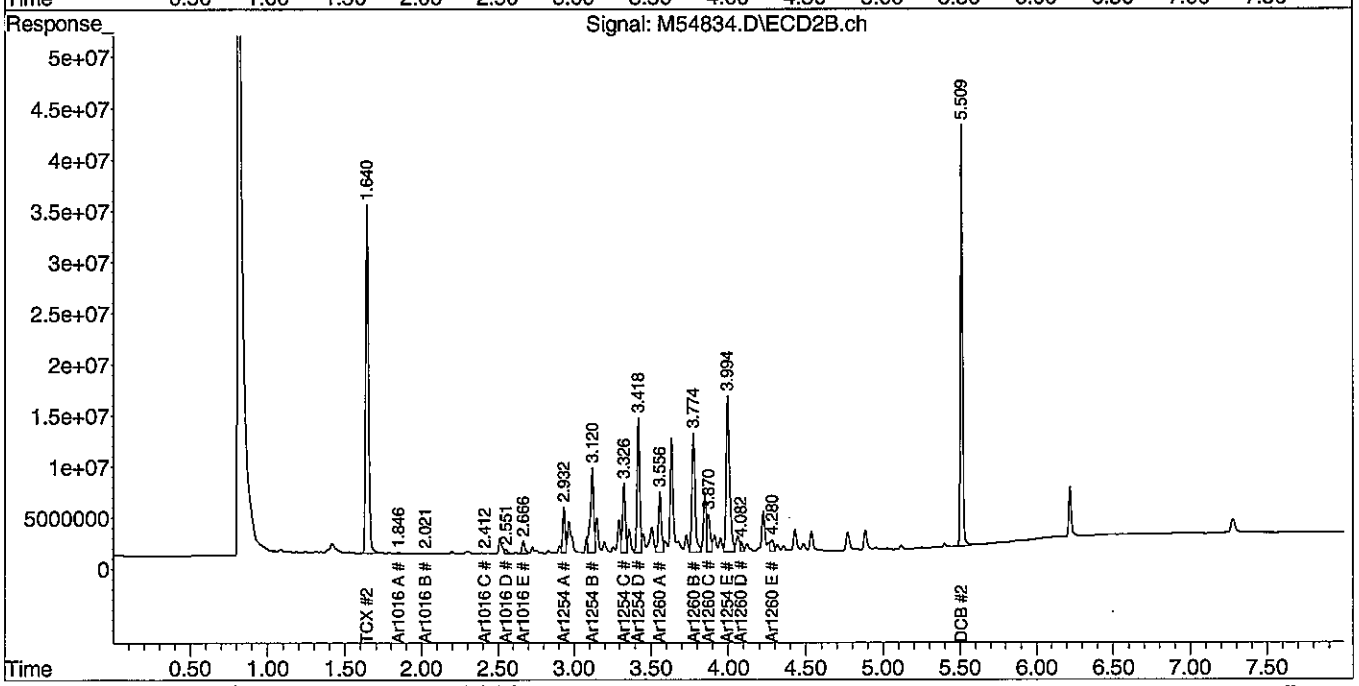
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54834.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 12:30 pm
Operator : MG
Sample : 72199-2
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 08:22:33 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72199-3
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	02/15/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-159

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	2.4
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	81	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCBWipe

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-3
Data File: M54835.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	2.4	2.3	1.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

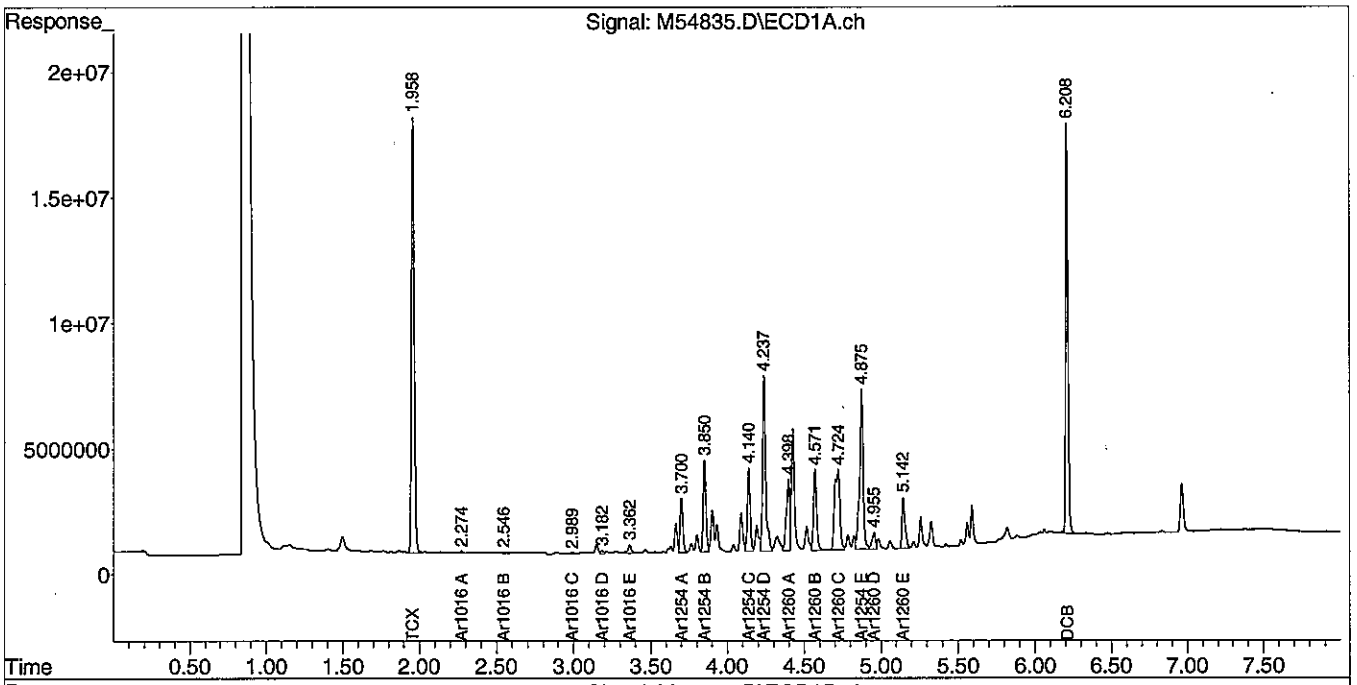
Comments: _____

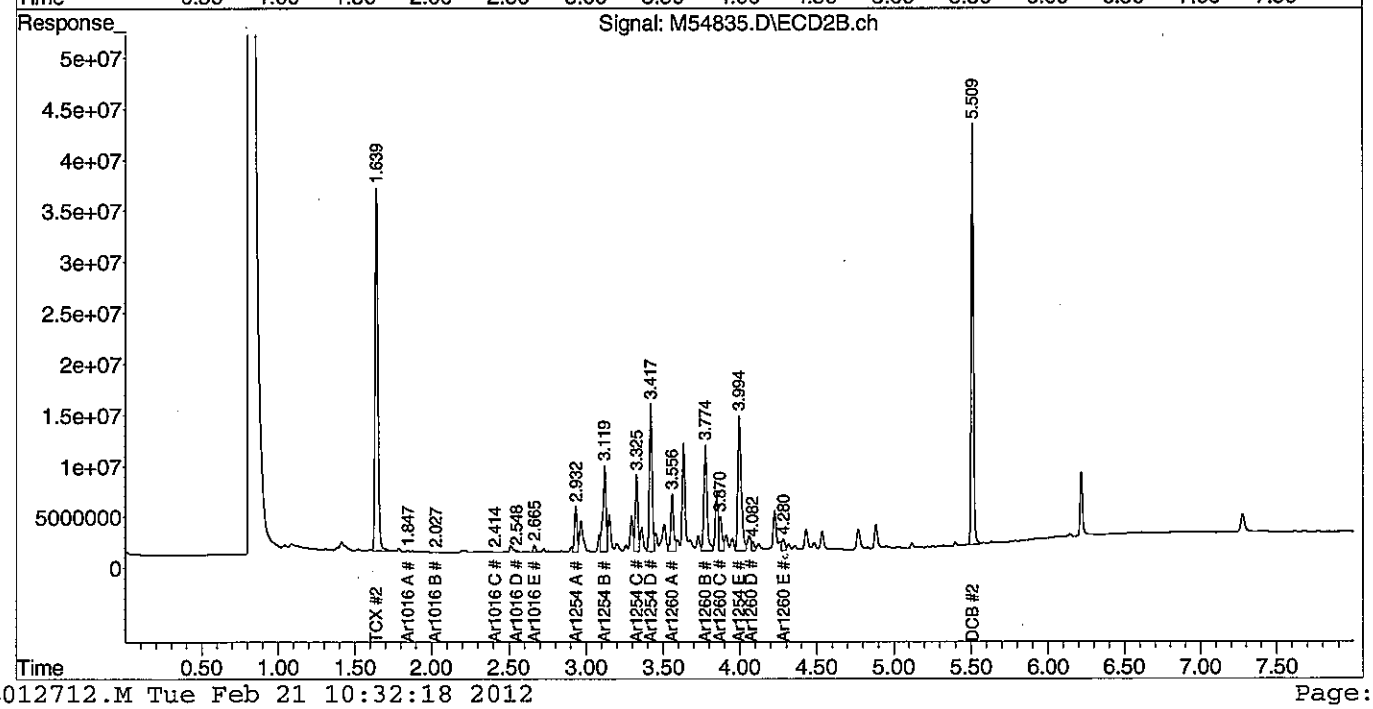
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54835.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 12:41 pm
Operator : MG
Sample : 72199-3
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 08:22:35 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72199-4
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	02/15/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-160

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

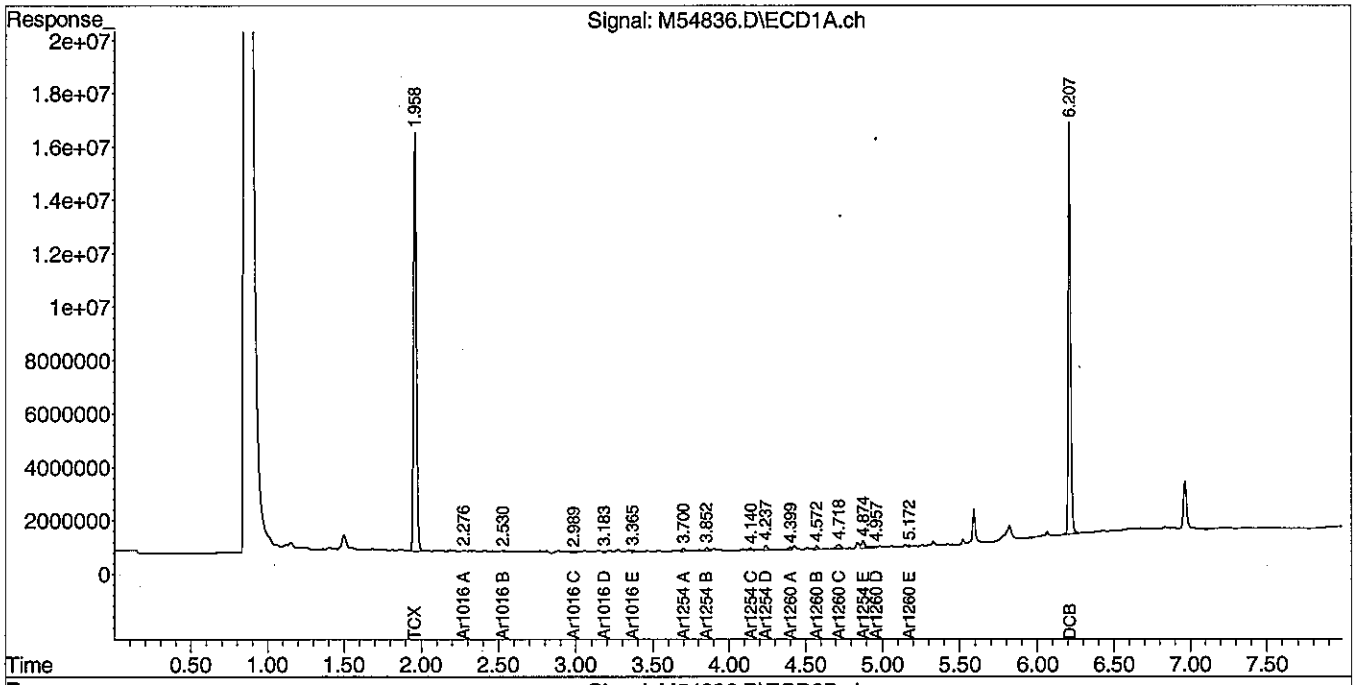
PCBWipe

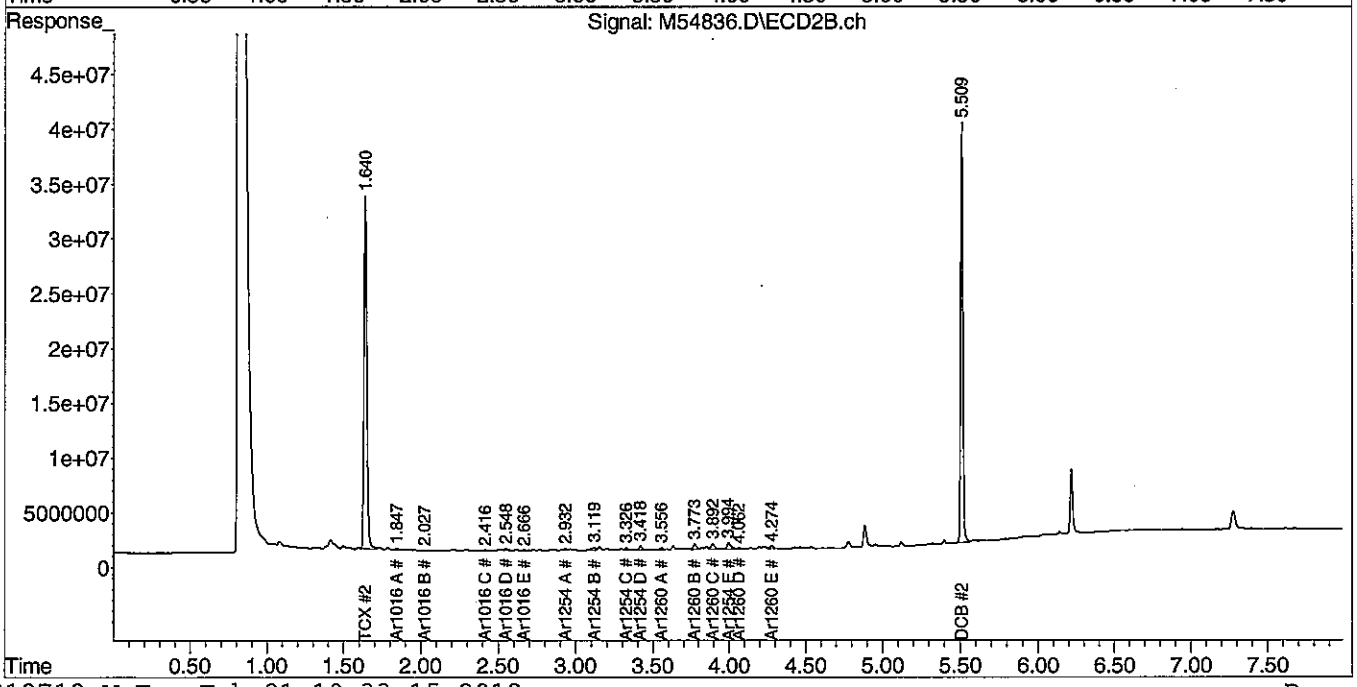
Authorized signature

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54836.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 12:51 pm
Operator : MG
Sample : 72199-4
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 08:22:37 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72199-5
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	02/16/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-163

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.7**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	90	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCBWipe

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-5
Data File: M54837.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.7	1.7	0.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

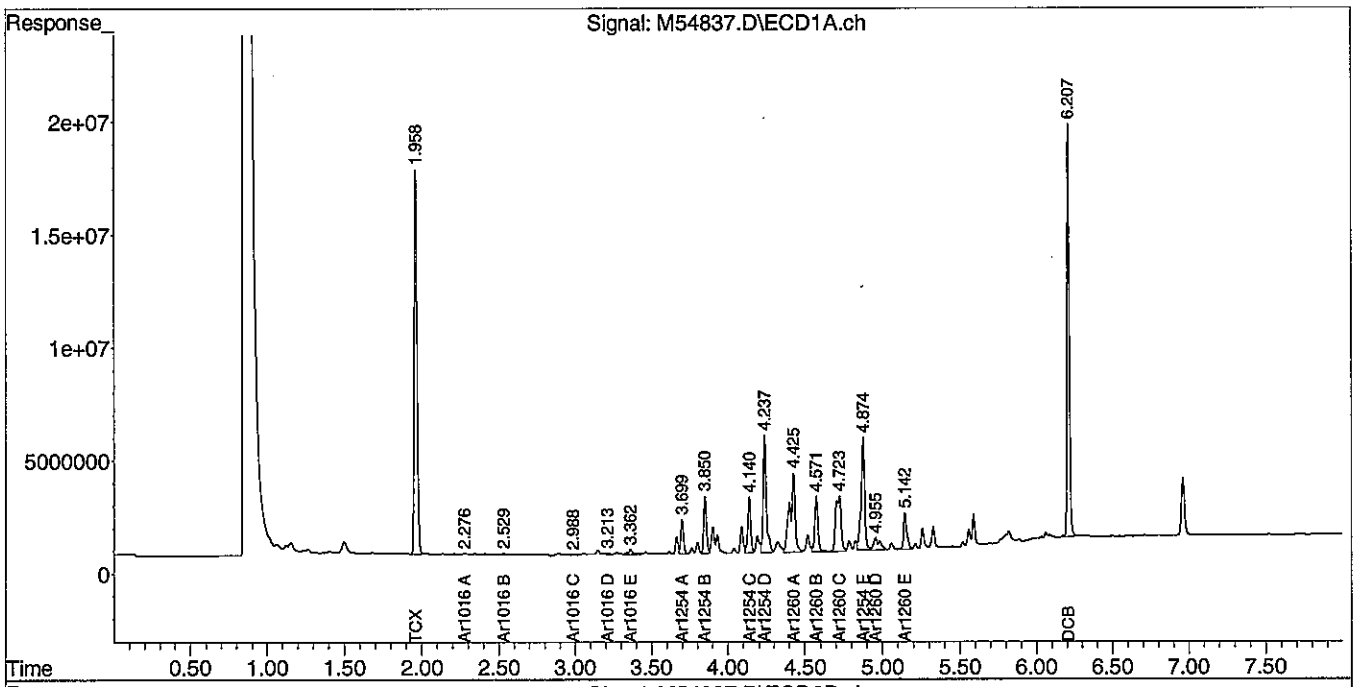
Comments: _____

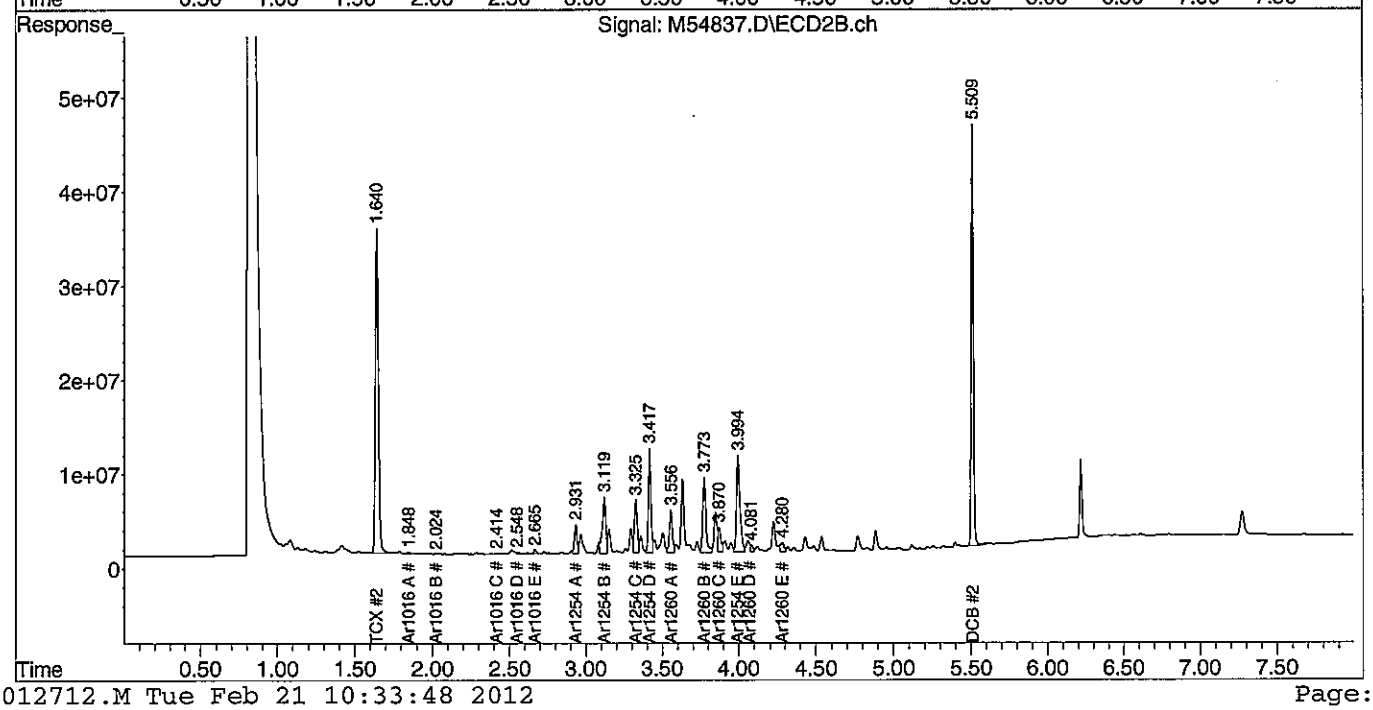
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54837.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 1:01 pm
Operator : MG
Sample : 72199-5
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 10:33:41 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72199-6
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	02/16/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-164

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

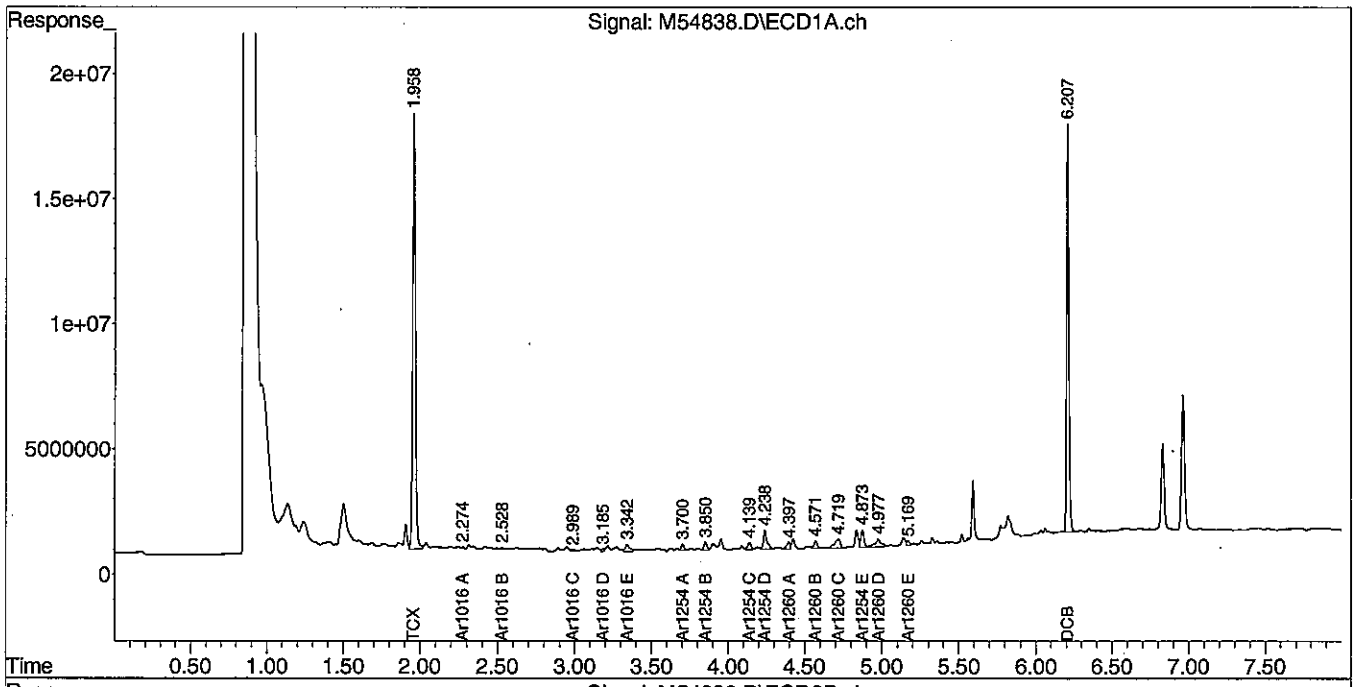
PCBWipe

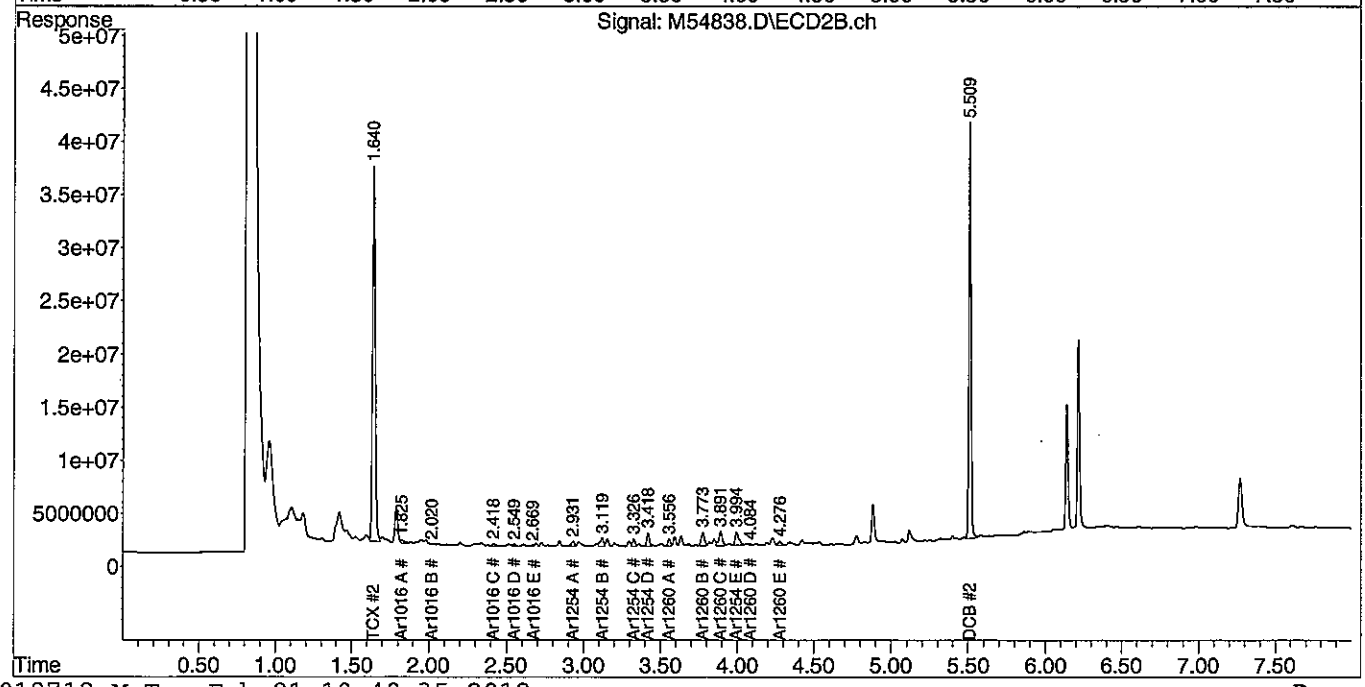
Authorized signature

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54838.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 1:11 pm
Operator : MG
Sample : 72199-6
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 10:40:23 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72199-7
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.0
Collection Date:	02/07/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBB-155

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**570**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-7
Data File: M54839.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	562	570	1.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

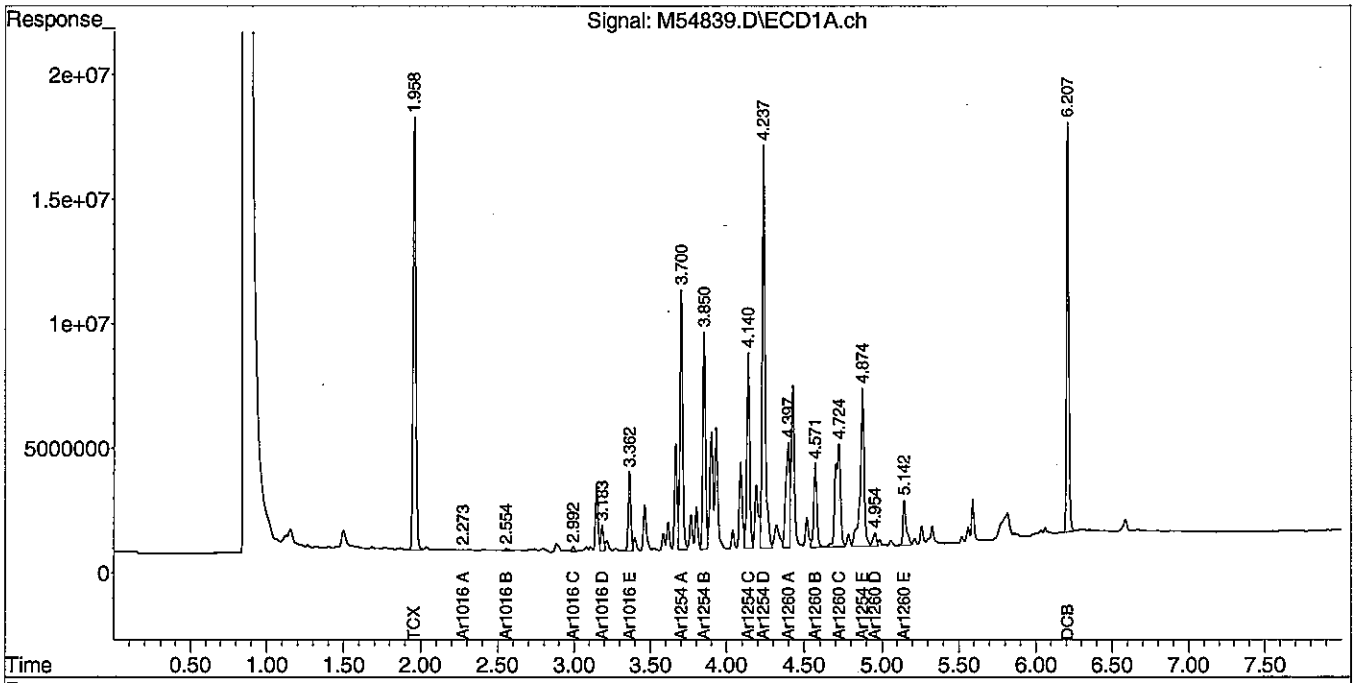
Comments: _____

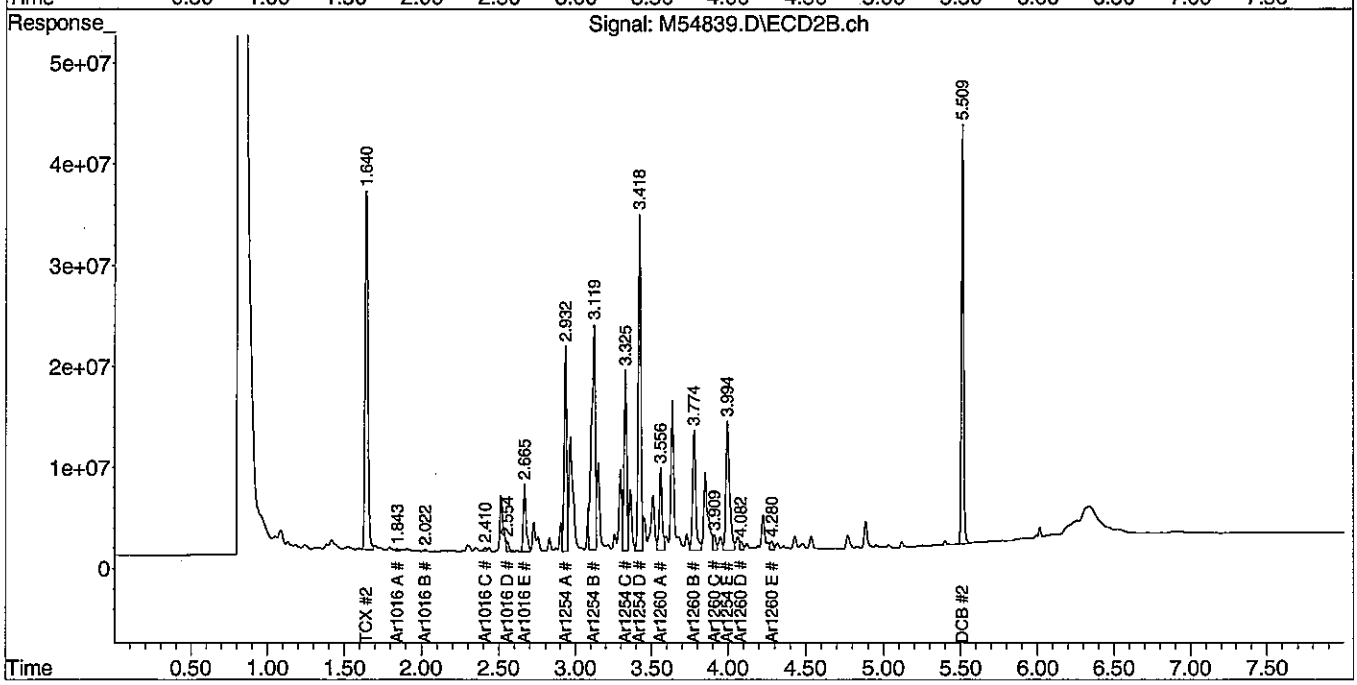
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54839.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 1:21 pm
Operator : MG
Sample : 72199-7
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 10:41:37 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 21, 2012

SAMPLE DATA

Lab Sample ID:	72199-8
Matrix:	Solid
Percent Solid:	67
Dilution Factor:	1.4
Collection Date:	02/09/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/21/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-156

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	46	U
PCB-1221	46	U
PCB-1232	46	U
PCB-1242	46	U
PCB-1248	46	U
PCB-1254	46	U
PCB-1260	46	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	67	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

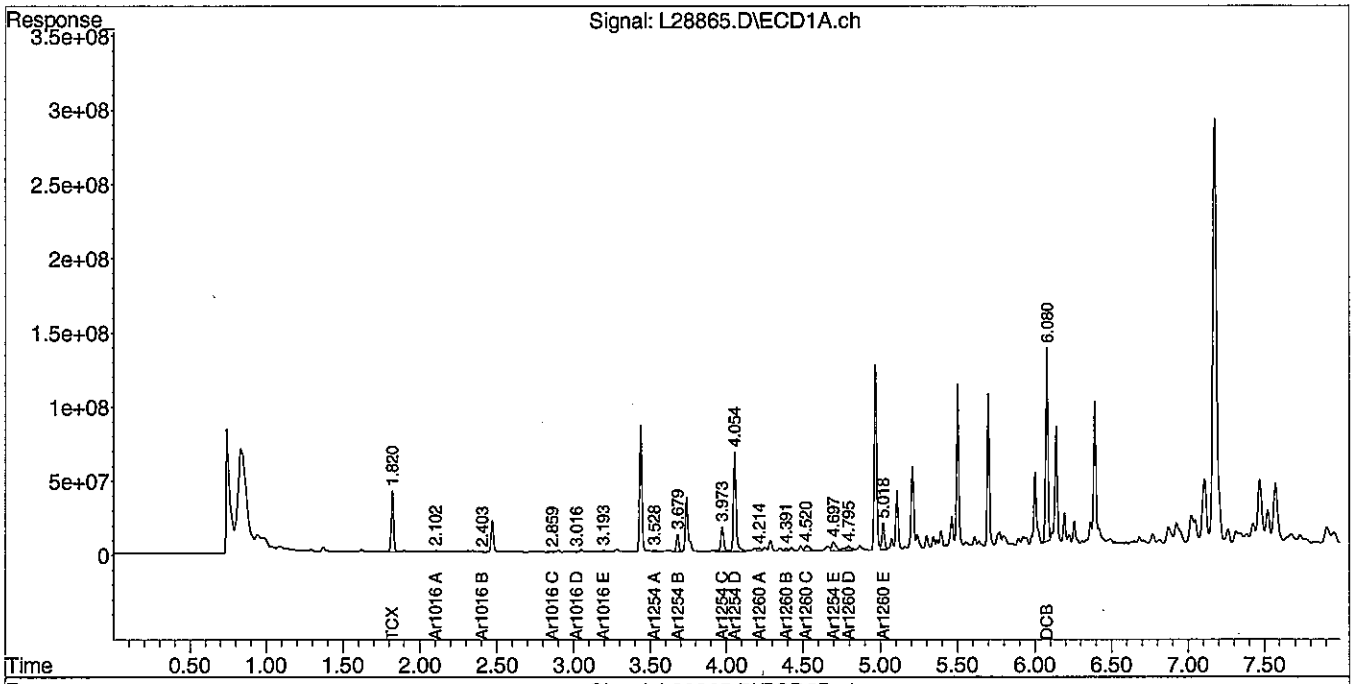
PCB Report

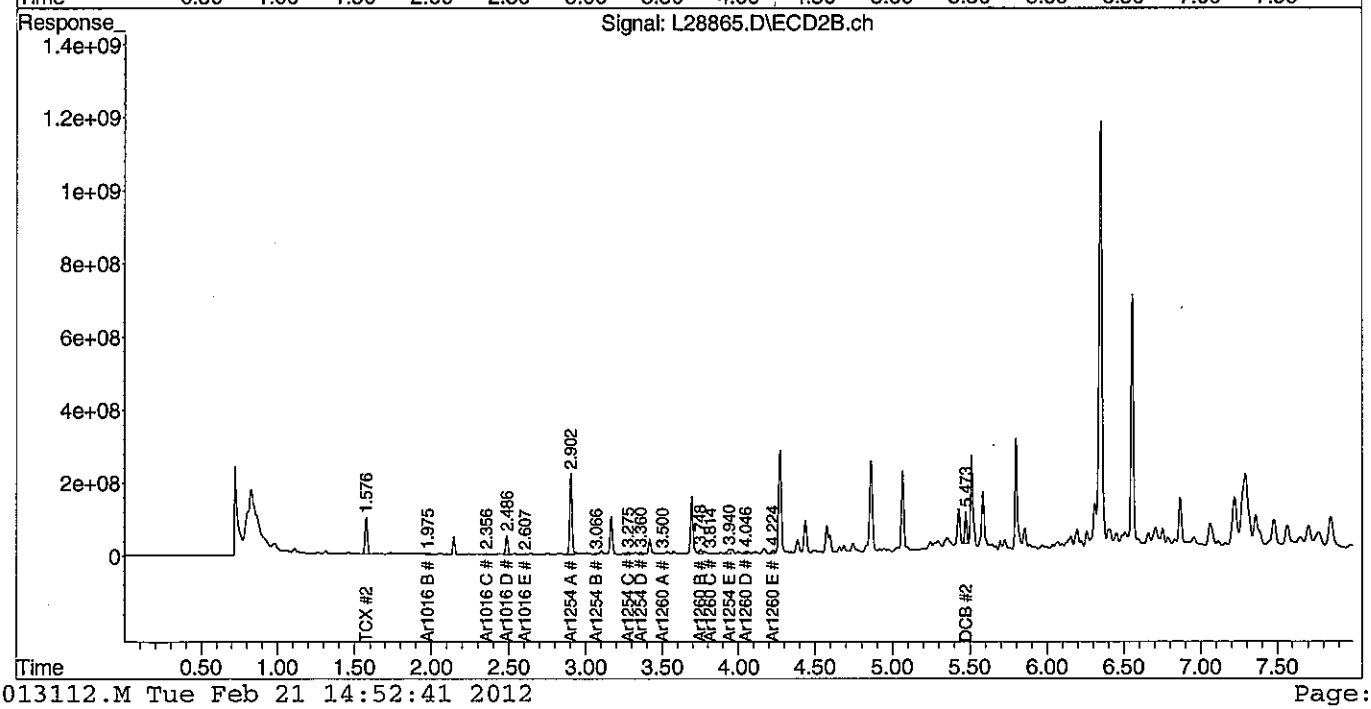
Authorized signature

Data Path : C:\msdchem\1\DATA\022112-L\
Data File : L28865.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2012 1:16 pm
Operator : JL
Sample : 72199-8,,A/C
Misc :
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 14:52:28 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 21, 2012

SAMPLE DATA

Lab Sample ID:	72199-9
Matrix:	Solid
Percent Solid:	99
Dilution Factor:	0.9
Collection Date:	02/15/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBC-161

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	30	U
PCB-1221	30	U
PCB-1232	30	U
PCB-1242	30	U
PCB-1248	30	U
PCB-1254	30	**449**
PCB-1260	30	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-9
Data File: M54840.D
Dilution Factor: 0.9

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	449	446	0.6	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

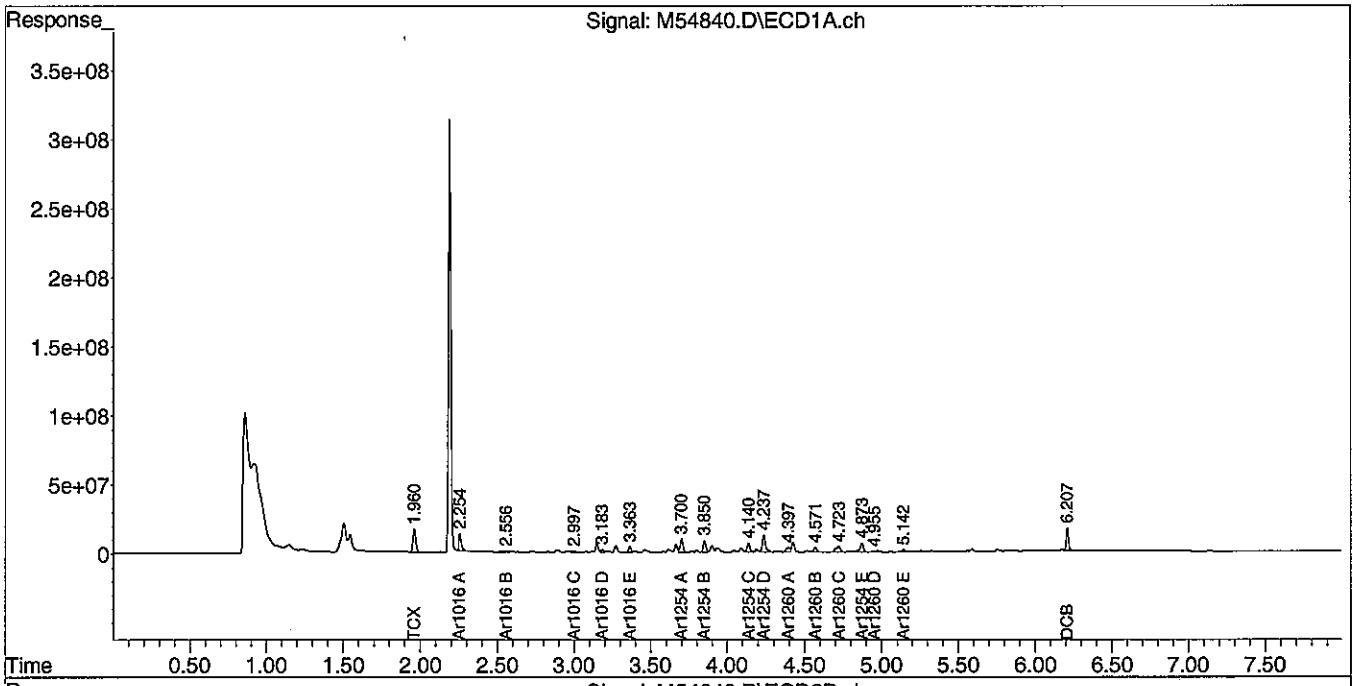
Comments: _____

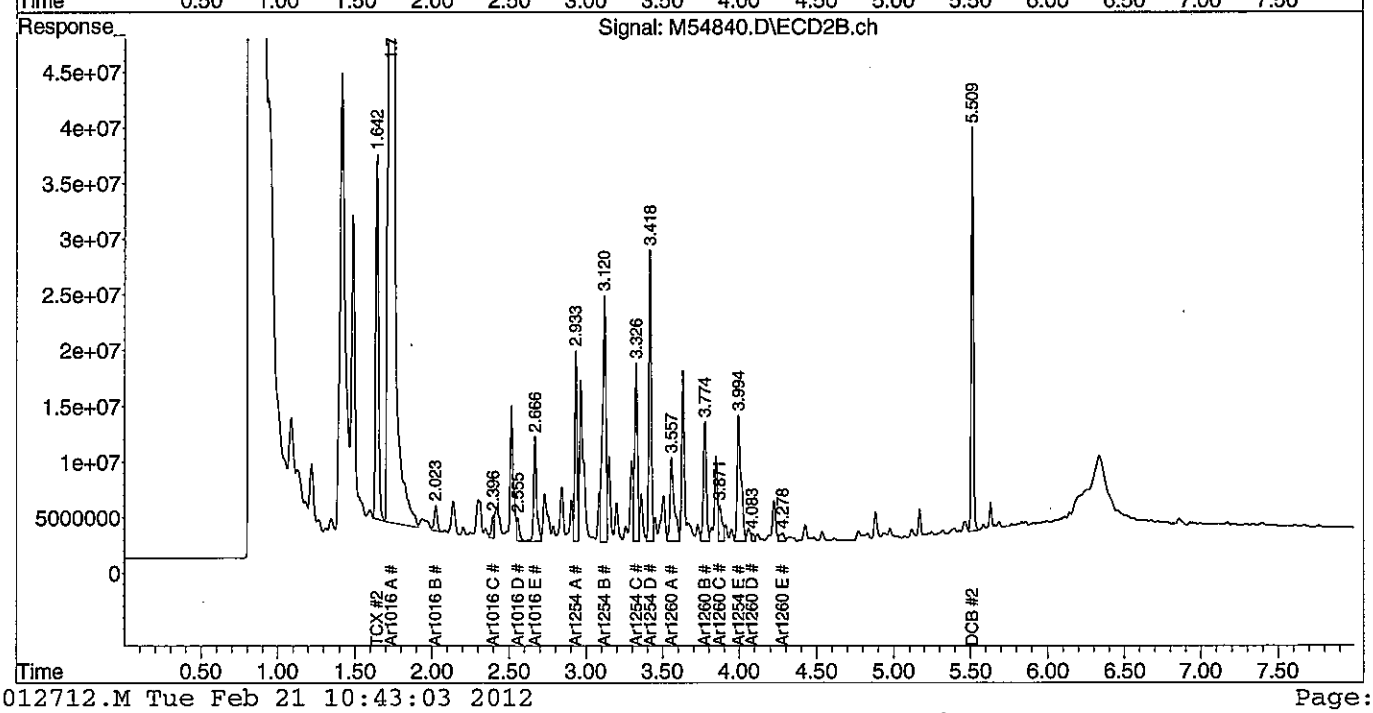
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54840.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 1:31 pm
Operator : MG
Sample : 72199-9
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 10:42:55 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 21, 2012

SAMPLE DATA

Lab Sample ID:	72199-10
Matrix:	Solid
Percent Solid:	98
Dilution Factor:	1.0
Collection Date:	02/16/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBP-162

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**387**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-10
Data File: M54841.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	387	357	8.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

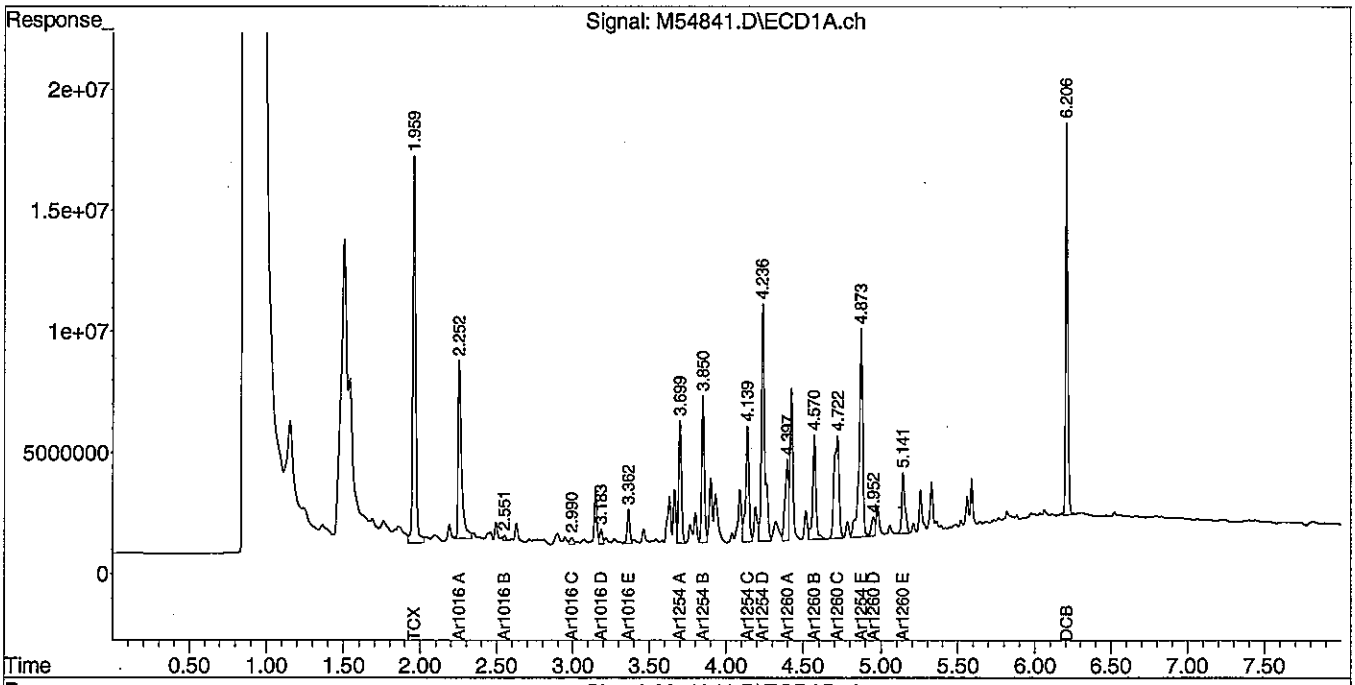
Comments: _____

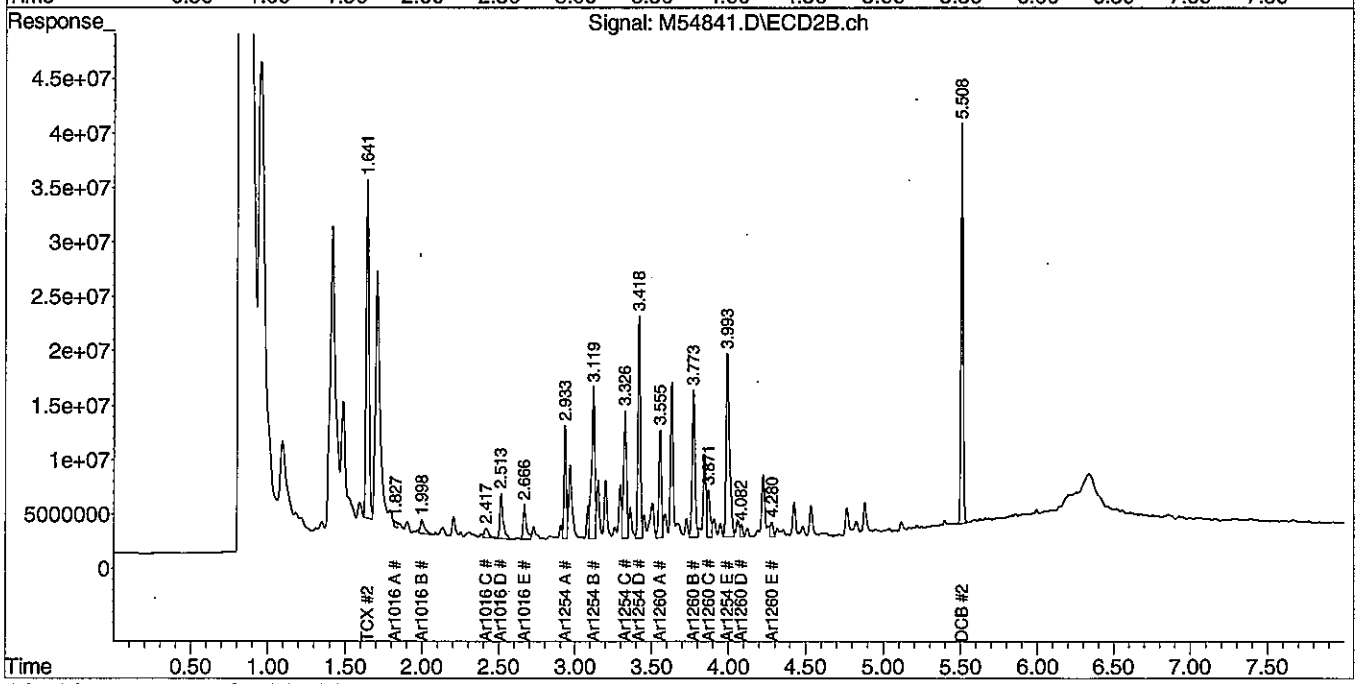
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54841.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 1:41 pm
Operator : MG
Sample : 72199-10
Misc : SOIL
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 08:22:47 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72199-11
Matrix:	Solid
Percent Solid:	68
Dilution Factor:	14
Collection Date:	02/16/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/21/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-165

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	462	U
PCB-1221	462	U
PCB-1232	462	U
PCB-1242	462	U
PCB-1248	462	U
PCB-1254	462	**7130**
PCB-1260	462	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	111	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-11,1:10,,A/C
Data File: L28866.D
Dilution Factor: 14.4

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	7126	6159	14.6	

Column to be used to flag RPD values greater than QC limit of 40%
* Values outside QC limits

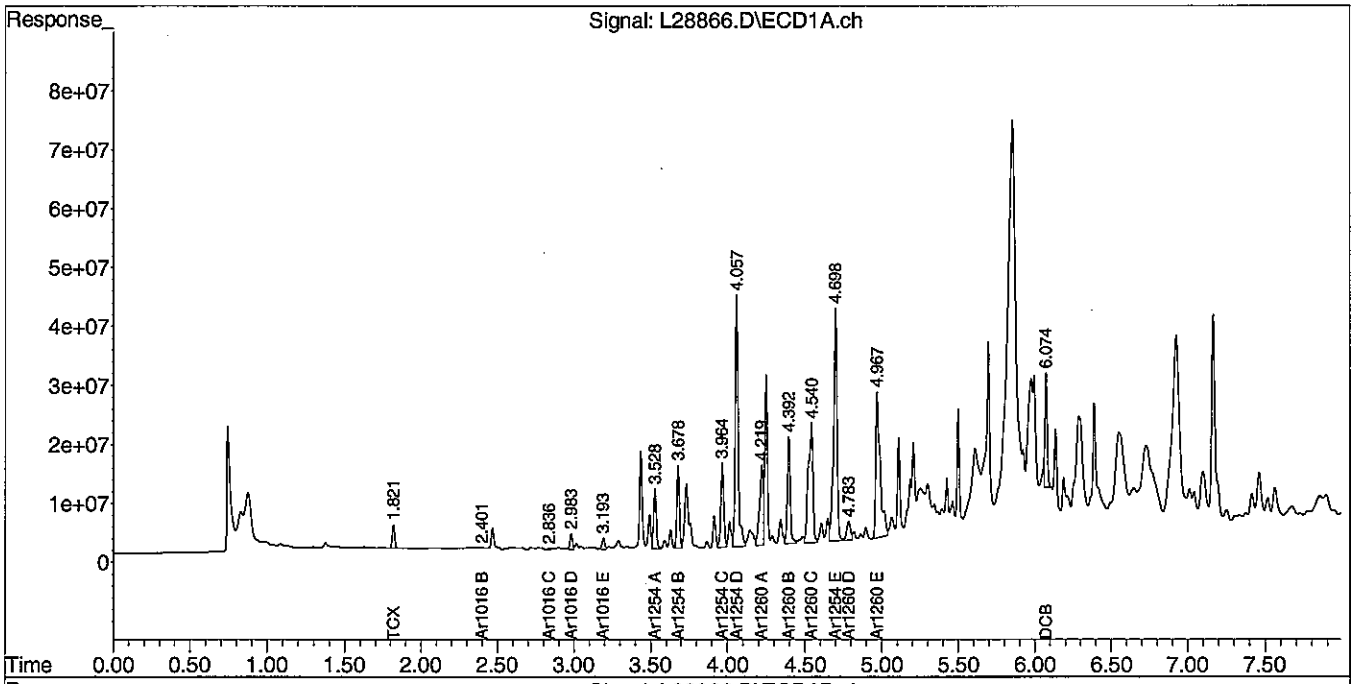
Comments: _____

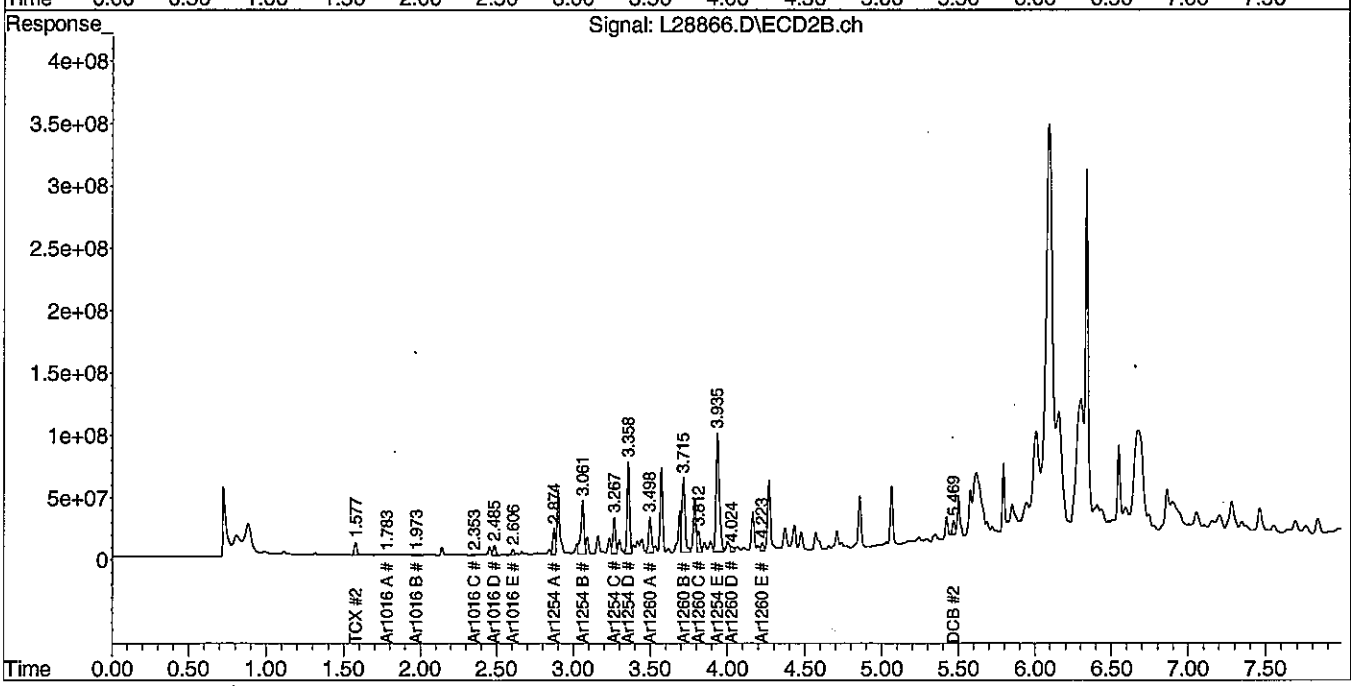
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022112-L\
Data File : L28866.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2012 1:26 pm
Operator : JL
Sample : 72199-11,1:10,,A/C
Misc :
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 15:34:52 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 21, 2012

SAMPLE DATA

Lab Sample ID:	72199-12
Matrix:	Solid
Percent Solid:	98
Dilution Factor:	1.0
Collection Date:	02/16/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/20/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBP-166

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**72**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-12
Data File: M54842.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	72	65	10.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

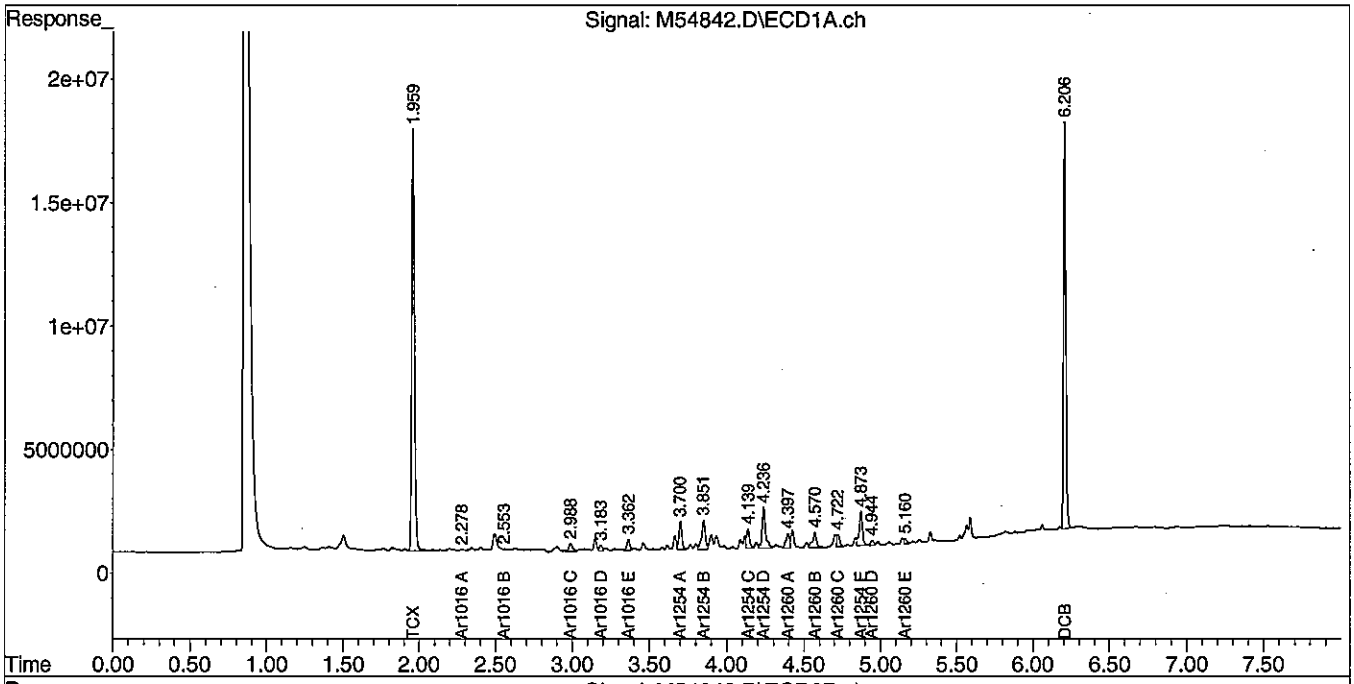
Comments: _____

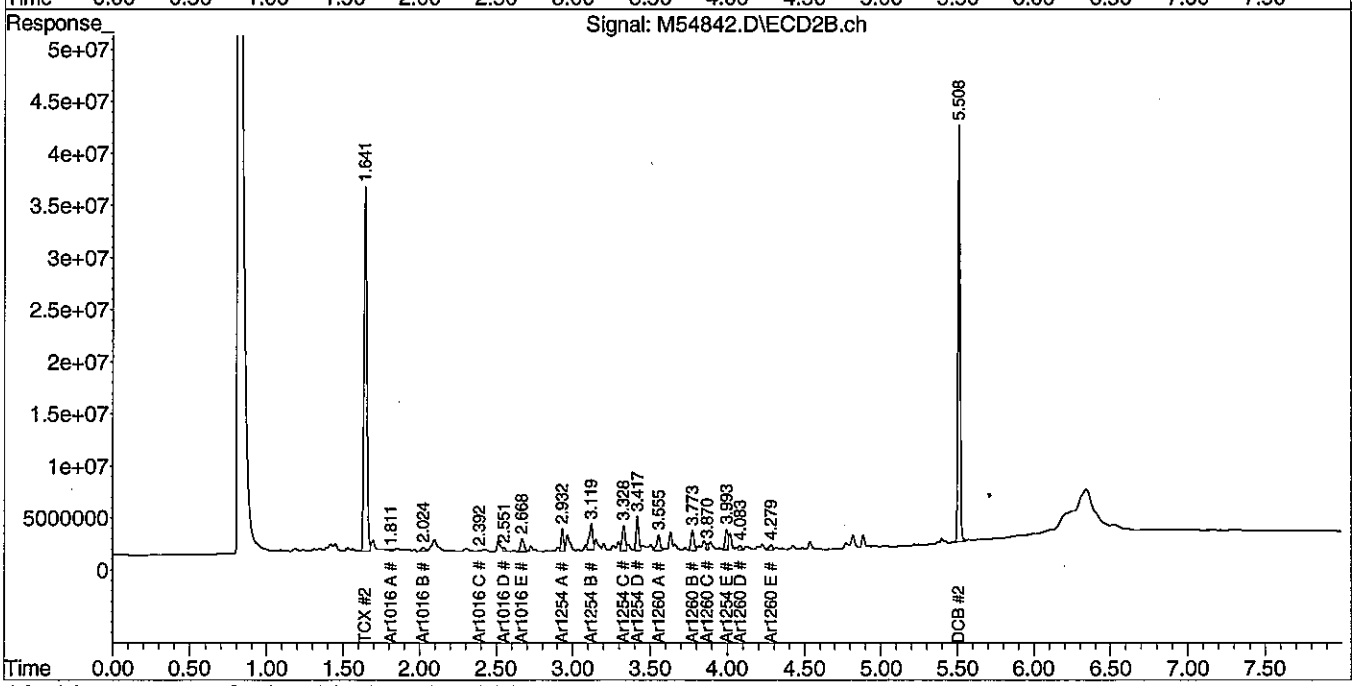
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022012-M\
Data File : M54842.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 20 Feb 2012 1:51 pm
Operator : MG
Sample : 72199-12
Misc : SOIL
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 21 10:45:42 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Fri Feb 17 00:21:16 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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February 21, 2012

SAMPLE DATA

Lab Sample ID:	72199-13
Matrix:	Solid
Percent Solid:	59
Dilution Factor:	32
Collection Date:	02/16/12
Lab Receipt Date:	02/16/12
Extraction Date:	02/16/12
Analysis Date:	02/21/12

CLIENT SAMPLE ID

Project Name:	222822-UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-167

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	1060	U
PCB-1221	1060	U
PCB-1232	1060	U
PCB-1242	1060	U
PCB-1248	1060	U
PCB-1254	1060	**17600**
PCB-1260	1060	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72199-13,1:20,,A/C
Data File: L28864.D
Dilution Factor: 31.6

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	16645	17605	5.6	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

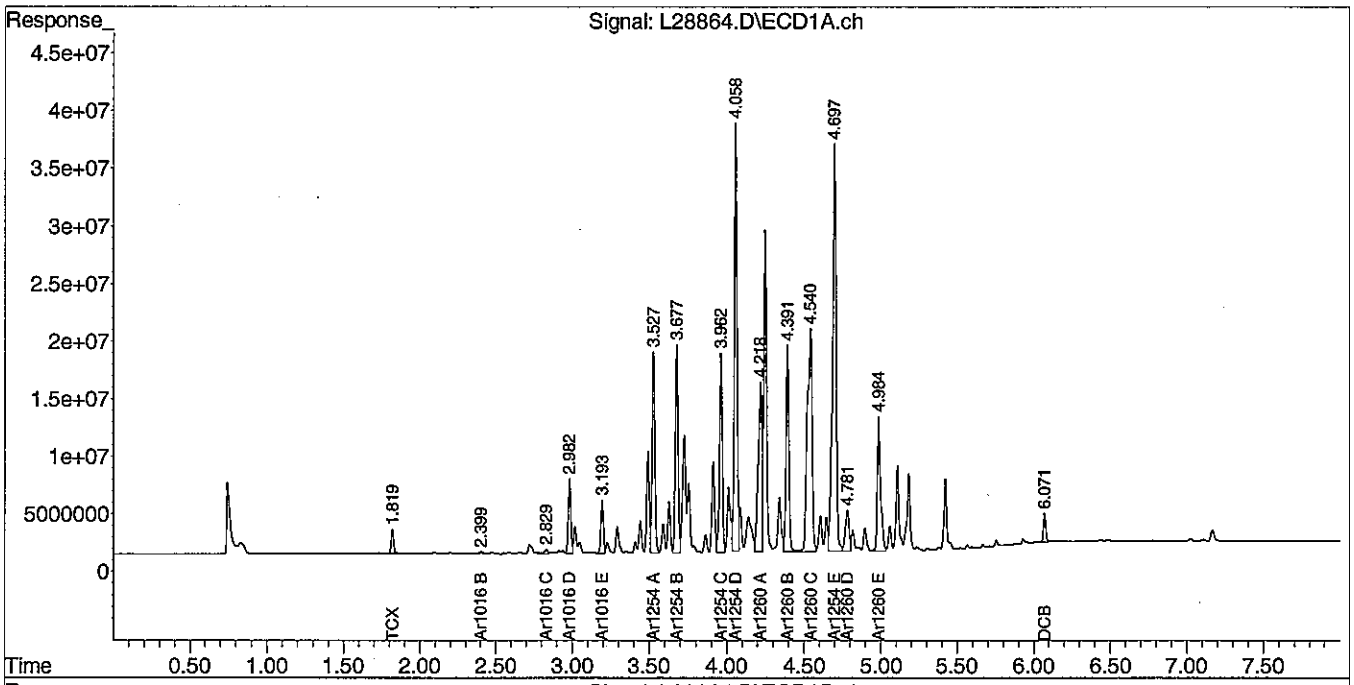
Comments: _____

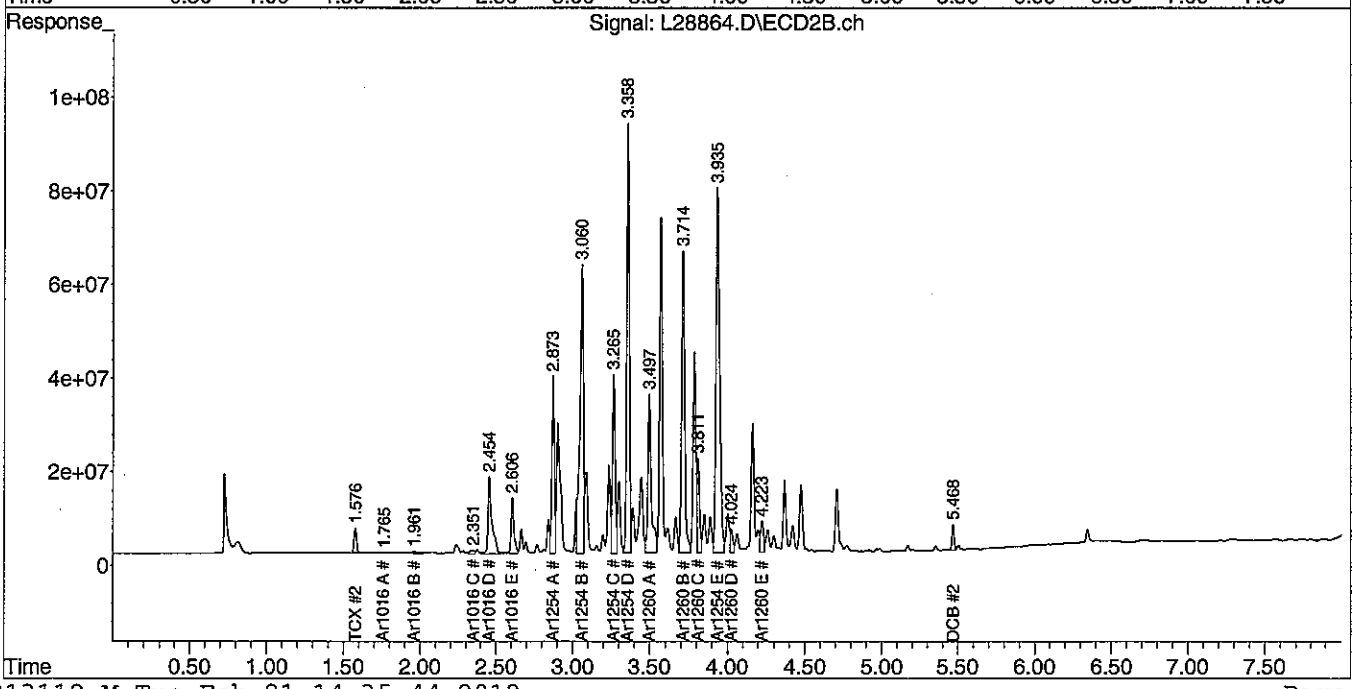
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022112-L\
Data File : L28864.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 21 Feb 2012 1:05 pm
Operator : JL
Sample : 72199-13,1:20,,A/C
Misc :
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Feb 21 14:35:33 2012
Quant Method : C:\msdchem\1\METHODS\PCB013112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Feb 14 04:43:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72199

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B021612PSOX,,A/C	83		76		72		77	
L021612PSOX,,A/C	89		86		79		86	
LD021612PSOX,,A/C	88		87		76		84	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72199

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B021612PSOX,RR,A/C	82		79		73		77	
72199-1	77		75		70		72	
72199-2	85		82		76		80	
72199-3	87		81		78		80	
72199-4	81		77		73		75	
72199-5	90		90		81		87	
72199-6	88		80		76		76	
72199-7	87		82		77		79	
72199-9	90		78		70		70	
72199-10	87		77		68		68	
72199-12	88		79		77		76	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72199

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B021612PSOX,RR3,,A/(	81		82		72		86	
72199-13,1:20,,A/C	D		D		D		D	
72199-8,,A/C	79		I		75		67	
72199-11,1:10,,A/C	83		I		78		111	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72196

Non-spiked sample: B021612PSOX,,A/C

Spike: L021612PSOX,,A/C

Spike duplicate: LD021612PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	183	92		172	86		6.4	
PCB 1260	200	200	60	130	30	0	187	93		198	99		6.0	
PCB 1016 #2	200	200	65	140	30	0	167	83		179	90		7.3	
PCB 1260 #2	200	200	60	130	30	0	174	87		167	84		3.7	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 1.8
3) Received in good condition: (Y) or N
4) pH checked by: N/A
5) Labels checked by: ACR 2/16/12

Project Name: 222822-Umaine Stewart Commons
Project#: 222822
Company: Woodard and Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis Followed by Preservation Code

Preservation Code: Please fill in preservation code here

Preservation Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: (8082) 608 Soxhlet: (Y) or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWG-157	2/9/12	11:25					X						WP	1		72199-1
UMSC-VWG-158	2/9/12	11:30					X						WP	1		-2
UMSC-VWM-159	2/15/12	12:10					X						WP	1		-3
UMSC-VWM-160	2/15/12	12:20					X						WP	1		-4
UMSC-VWM-163	2/16/12	8:50					X						WP	1		-5
UMSC-VWM-164	2/16/12	9:00					X						WP	1		-6

Email Results to:
awallace@woodardcurran.com

Turnaround Time (TAT)
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☒ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH
☐ MA
☒ ME
☐ CT
☐ RI
Other:

State Standard: _____ (eg. S-1 or GW-1)

EDD Required: Y* (N)
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Date: 2/16/12	Time: 18:25	Received By: Melissa Clontz
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 0.7
3) Received in good condition: (Y) or N
4) pH checked by: WMA
5) Labels checked by: PCN 2/16/12

Project Name: UMaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code: Please fill in preservation code here

Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: (8082) 608 Soxhlet: (Y) or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VBB-155	2/7/12	11:45					X						Brick	1		72199-7
UMSC-VBS-156	2/9/12	11:15					X						S	1		-8
UMSC-VBC-161	2/15/12	12:30					X						C	1		-9
UMSC-VBP-162	2/16/12	7:50					X						C	1		-10
UMSC-VBS-165	2/16/12	9:50					X						S	1		-11
UMSC-VBP-166	2/16/12	10:10					X						C	1		-12
UMSC-VBS-167	2/16/12	12:10					X						S	1		-13

Email Results to: aWallace@WoodardCurran.com

Turnaround Time (TAT): ☐ 24 Hours* ☐ 48 Hours* ☐ 72 Hours* ☒ 5 Days* ☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply

Report Type: ☐ MCP* ☒ Level II* ☐ CTRCP* ☐ Level III* ☐ DOD* ☐ Level IV* ☐ Standard

State: ☐ NH ☐ MA ☒ ME ☐ CT ☐ RI Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y (N)
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Date: 2/16/12	Time: 15:25	Received By: Melina Clontz
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72199 COOLER NUMBER: Aei-98 / Aei-9

CLIENT: Woodard & Curran NUMBER OF COOLERS: 2

PROJECT: UMaine - Stewart Commons

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): SMC DATE COOLER RECEIVED/OPENED: 2/16/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N A

3a. Enter carrier name and airbill number here: —

4. Were custody seals on the outside of cooler? Y N
How many & where: — Seal Date: — Seal Name: —

5. Did the custody seals arrive unbroken and intact upon arrival? Y N A

6. COC#: —

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 1.8 / 0.7 °C

B. Log-In: Date samples were logged in: 2/16/12 By: SMC

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were bubbles absent in VOA samples? Y N*A

If NO, List Sample ID's, Lab #s, and the size of the bubble(s):

*When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): JLN Date: 2/16/12

analytics environmental laboratory LLC

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800-929-9906
www.analyticslab.com

February 27, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72234
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Both samples required dilutions due to concentrations of PCB 1254 detected in the sample that exceeded the calibration of the instrument.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72234

Revision: Rev. 0

Re: UMaine Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 24 February 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
72234-1	02/22/12	UMSC-VWM-168	EPA 8082 (PCBs only)	
72234-2	02/22/12	UMSC-VWM-169	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 2/27/2012

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analytics environmental laboratory LLC

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 27, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine Stewart Commons

Project Number: 222822

Field Sample ID: Lab QC

Lab Sample ID: B022412PSOX
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 02/24/12
Analysis Date: 02/27/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	100	%
Decachlorobiphenyl	84	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

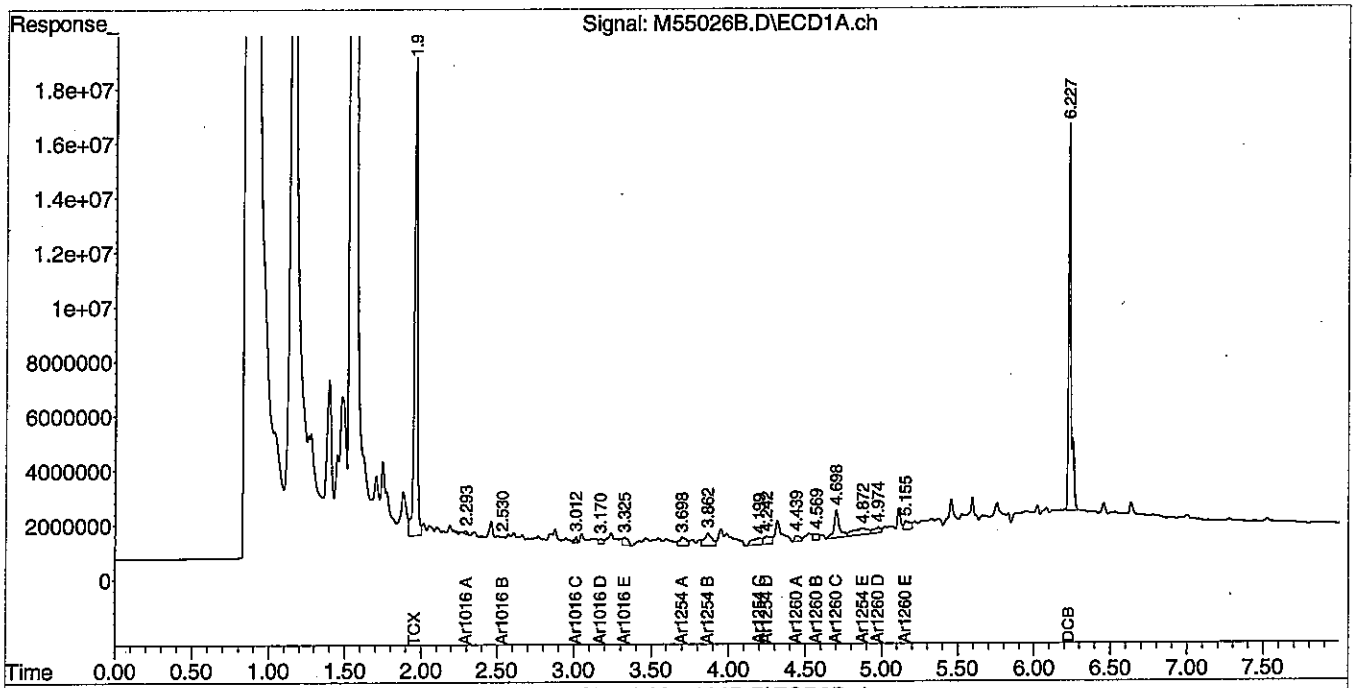
PCB Report

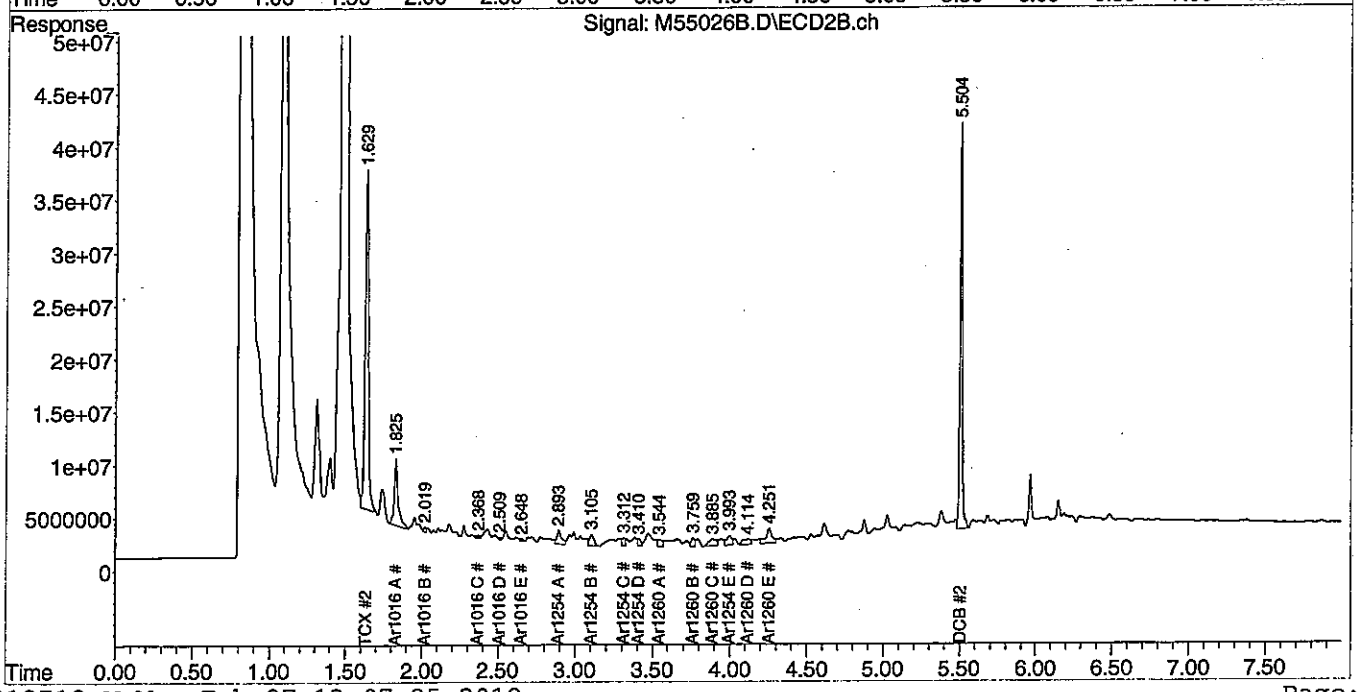
Authorized signature

Data Path : C:\msdchem\1\DATA\022712-M\
Data File : M55026B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2012 11:04 am
Operator : JK
Sample : B022412PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 13:07:15 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 22 22:34:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 27, 2012

SAMPLE DATA

Lab Sample ID:	72234-1
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	50
Collection Date:	02/22/12
Lab Receipt Date:	02/24/12
Extraction Date:	02/24/12
Analysis Date:	02/27/12

CLIENT SAMPLE ID

Project Name:	UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-168

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	25	U
PCB-1221	25	U
PCB-1232	25	U
PCB-1242	25	U
PCB-1248	25	U
PCB-1254	25	**170**
PCB-1260	25	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: * The surrogates were diluted out.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72234
Sample: 72234-1,1:50,,A/C
Data File: M55031.D
Dilution Factor: 50.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	169.5	165.3	2.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

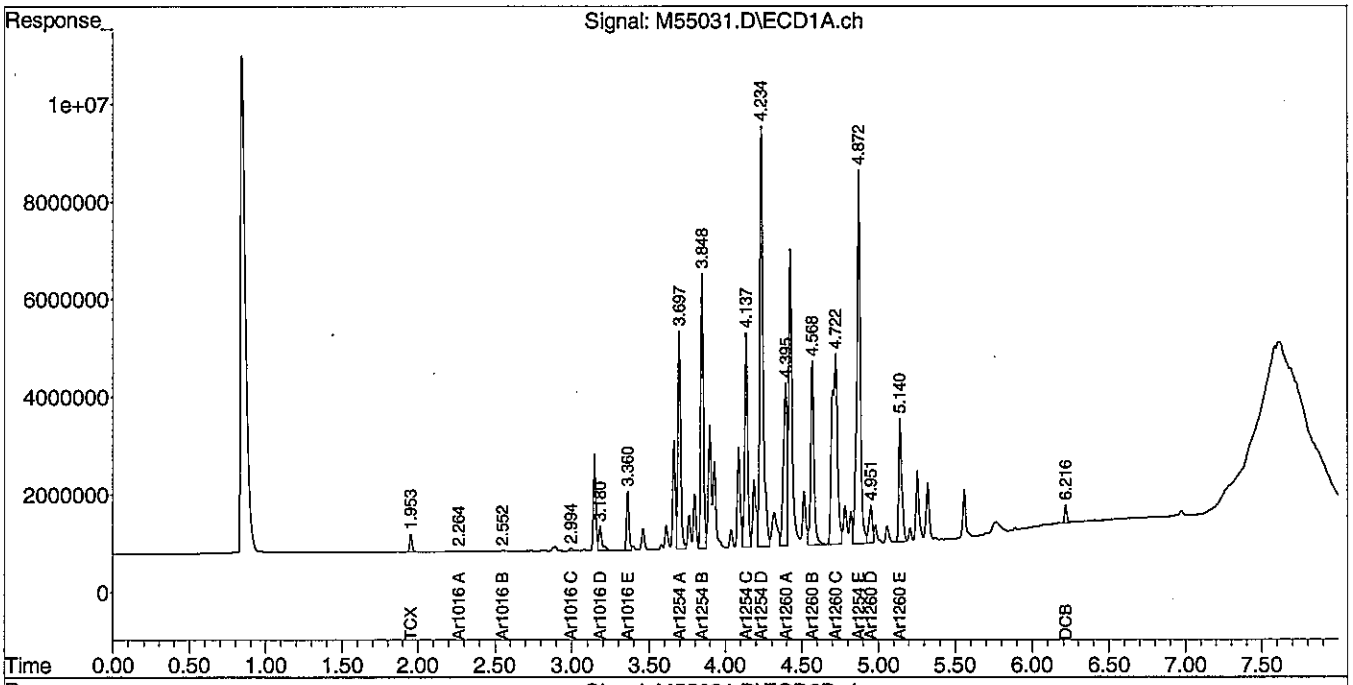
Comments: _____

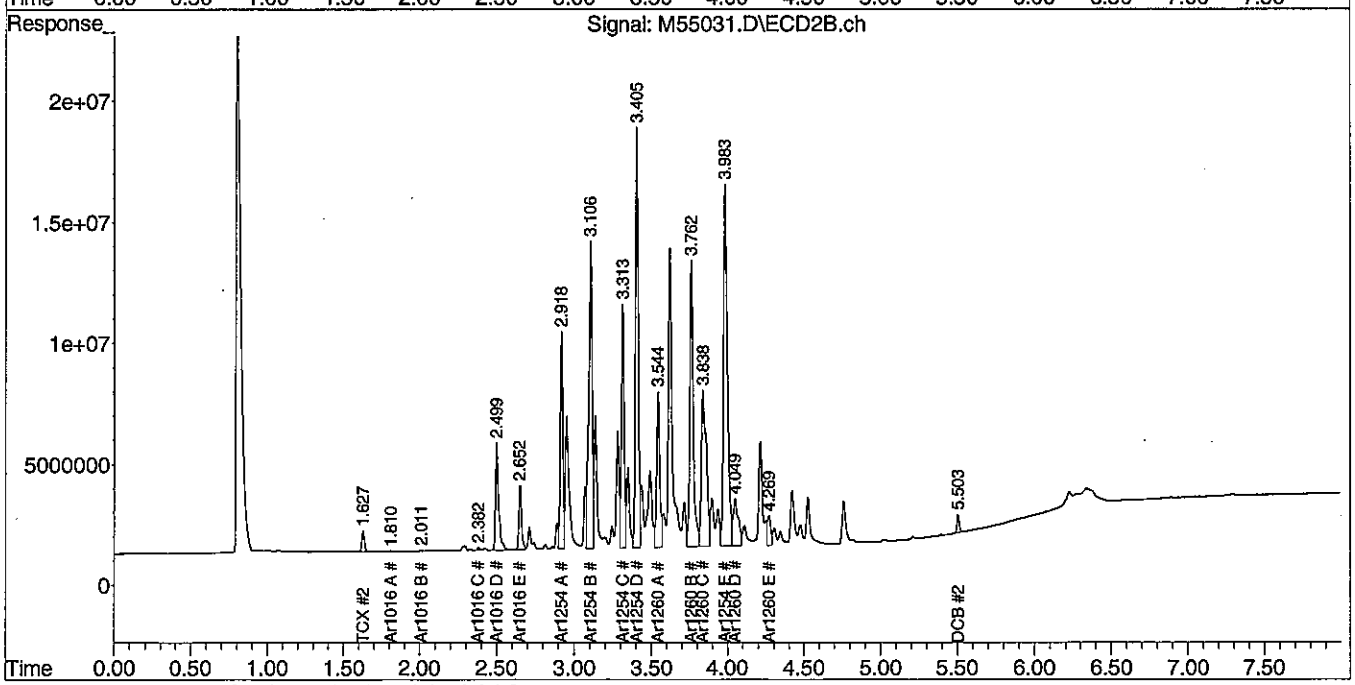
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022712-M\
Data File : M55031.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2012 12:03 pm
Operator : JK
Sample : 72234-1,1:50,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

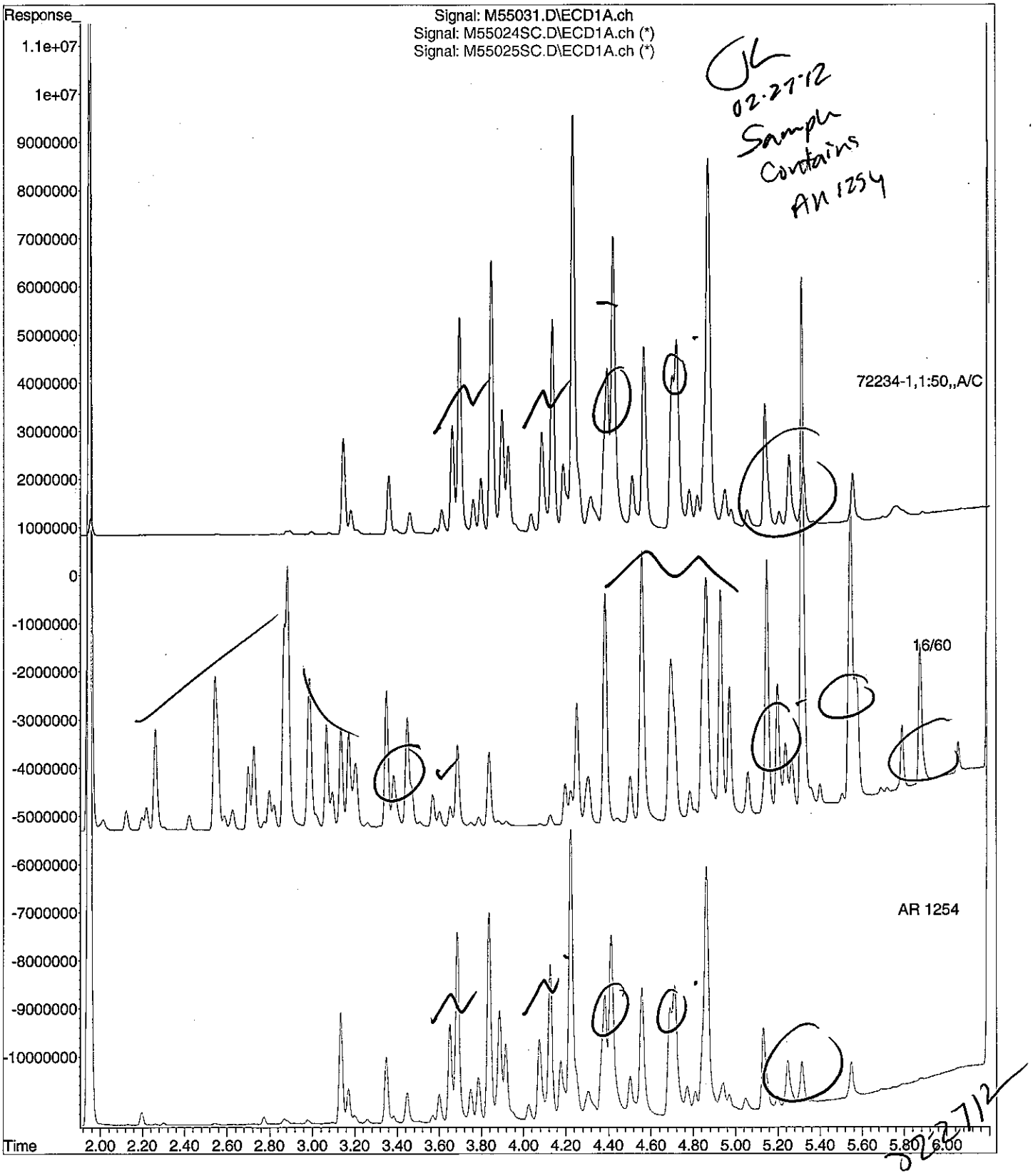
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 12:58:28 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 22 22:34:36 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\022712-M\M55031.D
Operator : JK
Acquired : 27 Feb 2012 12:03 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72234-1,1:50,,A/C
Misc Info : SOIL
Vial Number: 11



analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

February 27, 2012

SAMPLE DATA

Lab Sample ID:	72234-2
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	5.0
Collection Date:	02/22/12
Lab Receipt Date:	02/24/12
Extraction Date:	02/24/12
Analysis Date:	02/27/12

CLIENT SAMPLE ID

Project Name:	UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-169

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**23**
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	75.	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72234
Sample: 72234-2,1:5,,A/C
Data File: M55032.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	23.1	22.7	1.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

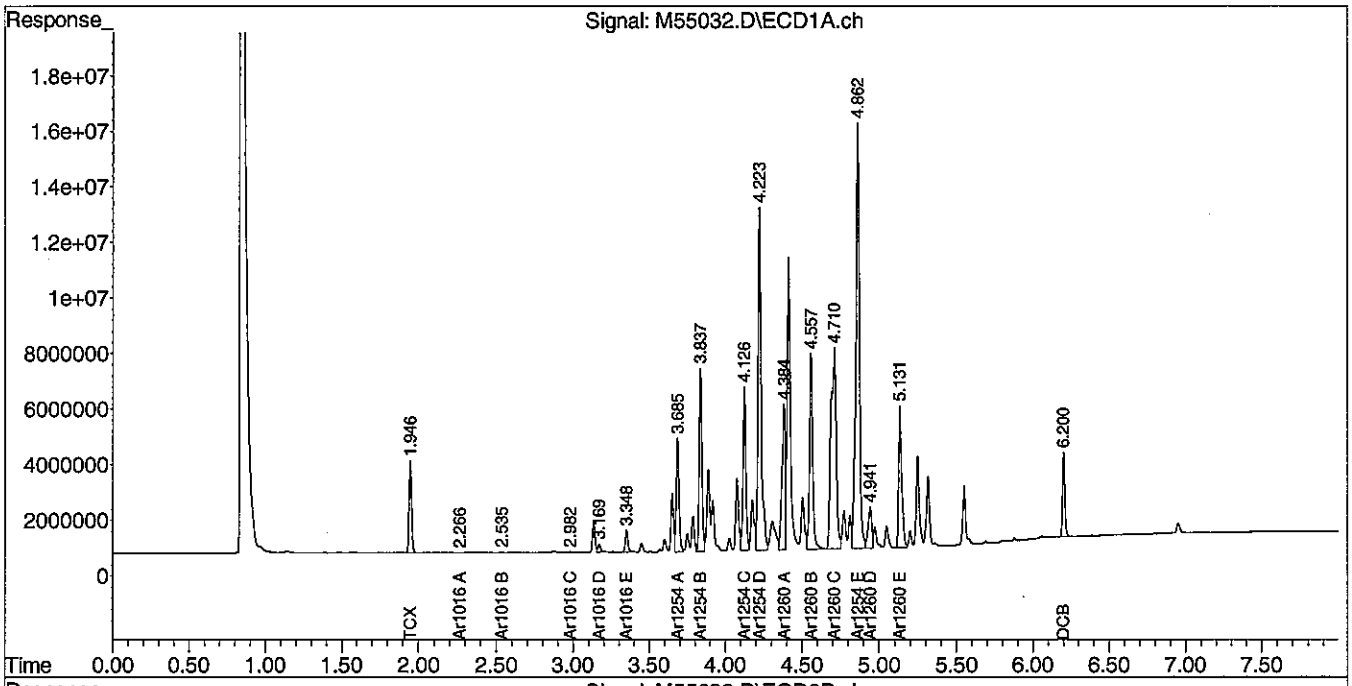
Comments: _____

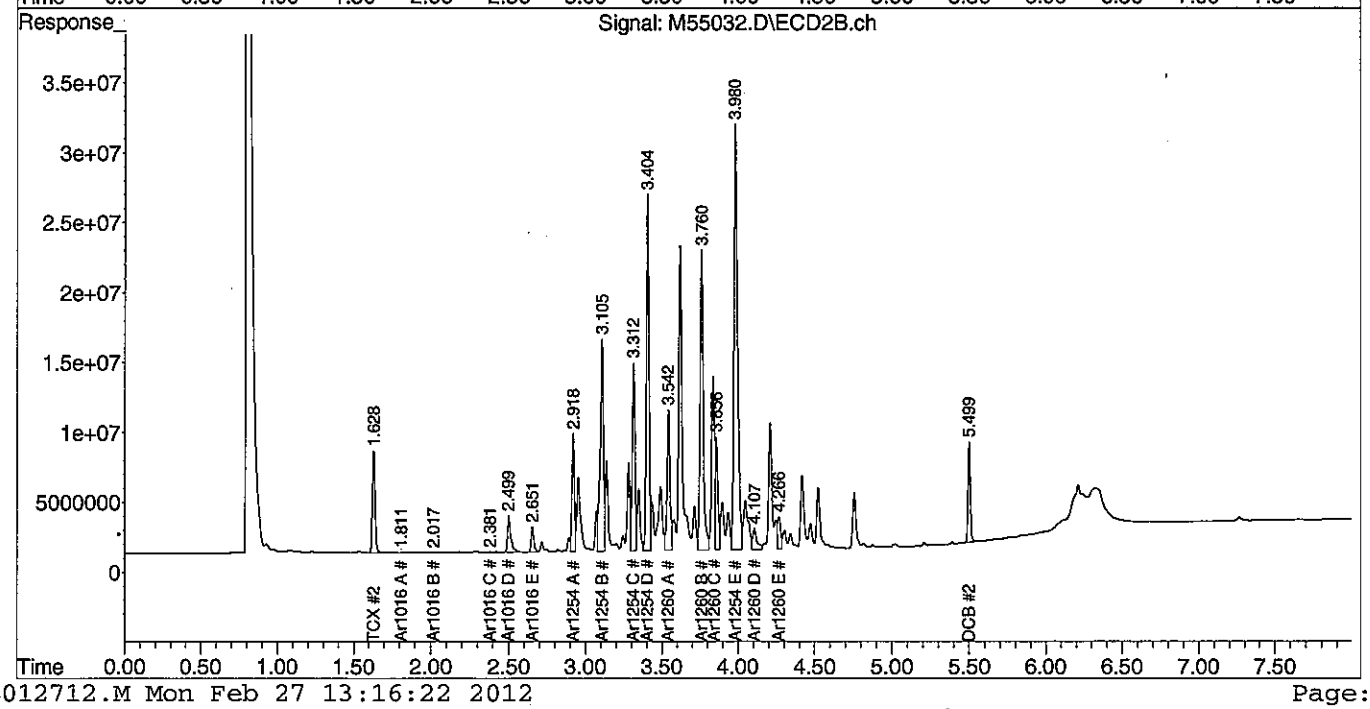
PCB FORM 10

Data Path : C:\msdchem\1\DATA\022712-M\
Data File : M55032.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 27 Feb 2012 12:13 pm
Operator : JK
Sample : 72234-2,1:5,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Feb 27 12:58:30 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Feb 22 22:34:36 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72234

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B022412PSOX,,A/C	100		84		84		80	
L022412PSOXW,,A/C	91		72		77		75	
LD022412PSOXW,,A/C	92		81		81		80	
72234-1,1:50,,A/C	D		D		D		D	
72234-2,1:5,,A/C	79		75		76		72	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72234
Non-spiked sample: B022412PSOX,,A/C
Spike: L022412PSOXW,,A/C
Spike duplicate: LD022412PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	65	140	30	0.0	1.6	82		1.8	89		8.0	
PCB 1260	2.0	2.0	60	130	30	0.0	1.9	93		1.9	93		0.2	
PCB 1016 #2	2.0	2.0	65	140	30	0.0	1.5	74		1.7	84		13.0	
PCB 1260 #2	2.0	2.0	60	130	30	0.0	1.7	83		1.7	87		5.2	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.
Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 5 °C
3) Received in good condition: Y or N
4) pH checked by: MA
5) Labels checked by: JBB 2/24/12

Project Name: UMaine Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: AMY Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:

Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWM-168	2/22/12	11:30					X						WP	1		72234-1
UMSC-VWM-169	2/22/12	11:40					X						WP	1		2

Email Results to: awallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Turnaround Time (TAT)
- [ ] 24 Hours*
- [x] 48 Hours*
- [ ] 72 Hours*
- [ ] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [x] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI
- Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N

Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: [signature]	Date: 2/23/12	Time: 10:00	Received By: [signature] PAUL RIDDLE G.C.
Relinquished By: General Courier	Date: 2/24/12	Time: 745	Received By: [signature]
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72234 COOLER NUMBER: 1

CLIENT: WOODARD & Curran NUMBER OF COOLERS: 1 of 2

PROJECT: UMAINE STEWART Commons

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): JB DATE COOLER RECEIVED/OPENED: 2-24-12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y (N)

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y (N)
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y (N/A)

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? (Y) N

8. Were custody papers sealed in a plastic bag? (Y) N

9. Did you sign the COC in the appropriate place? (Y) N

10. Was enough ice used to chill the cooler? (Y) N Temp. of cooler: 5°C

B. Log-In: Date samples were logged in: 2-24-12 By: [illegible]

11. Were all bottles sealed in separate plastic bags? (Y) N

12. Did all bottles arrive unbroken and were labels in good condition? (Y) N

13. Were all bottle labels complete(ID,Date,time,etc.) (Y) N

14. Did all bottle labels agree with custody papers? (Y) N

15. Were the correct containers used for the tests indicated: (Y) N

16. Were samples received at the correct pH? Y (N/A)

17. Was sufficient amount of sample sent for the tests indicated? (Y) N

18. Were all samples submitted within holding time? (Y) N

19. Were bubbles absent in VOA samples? Y (N/A)

If NO, List Sample ID's, Lab #s, and the size of the bubble(s): _____

*When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): JBB Date: 2/24/12

analytics environmental laboratory LLC

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March 06, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72281
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Sample 72281-2 required a dilution due to concentrations of PCB 1254 detected in the sample that exceeded the calibration of the instrument.

Surrogate 2,4,5,6-Tetrachloro-m-xylene recovery could not be determined on column#1 for samples 72281-1 and 72281-4 due to matrix interference. Surrogate results were reported off of column#2 without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

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www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72281

Revision: Rev. 0

Re: UMaine- Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 02 March 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
72281-1	03/01/12	UMSC-VWM-171	EPA 8082 (PCBs only)	
72281-2	03/01/12	UMSC-VWM-177	EPA 8082 (PCBs only)	
72281-3	03/01/12	UMSC-VWM-178	EPA 8082 (PCBs only)	
72281-4	03/01/12	UMSC-VWM-179	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 3/6/2012

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Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 5, 2012

SAMPLE DATA

Lab Sample ID: B030212PSOX
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 03/02/12
Analysis Date: 03/05/12

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	63	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

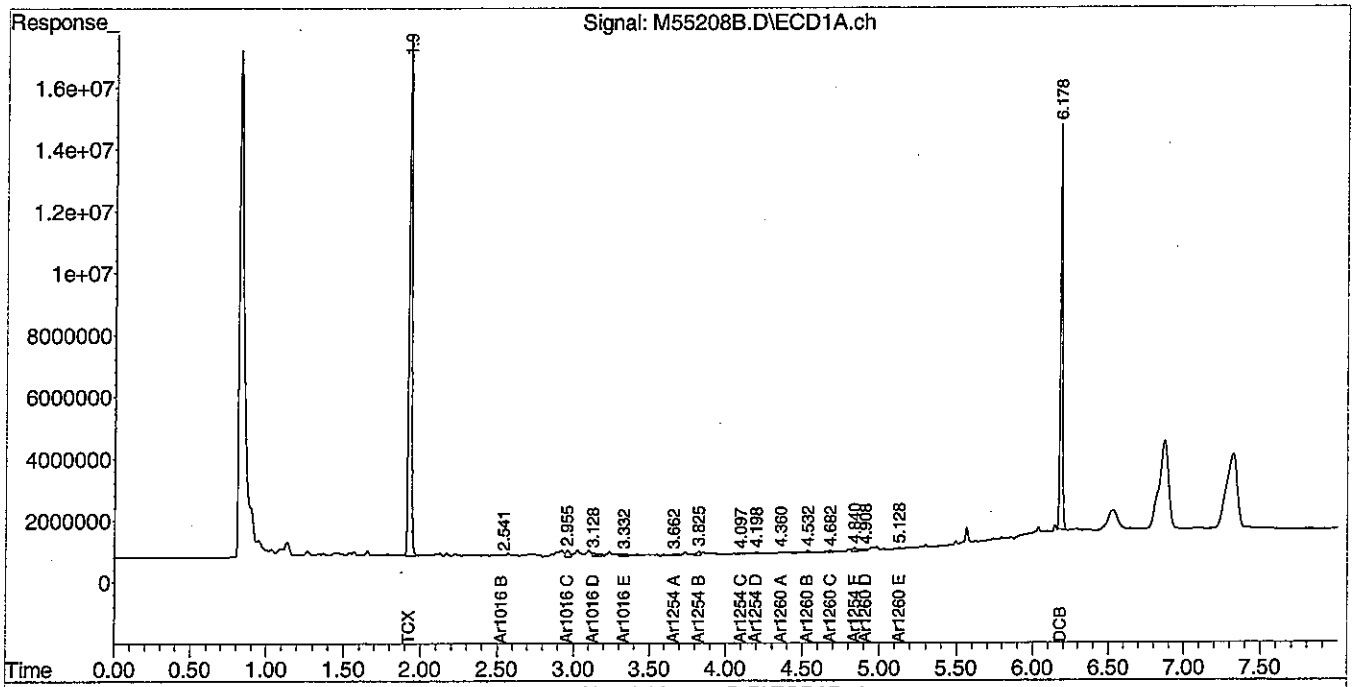
PCB Report

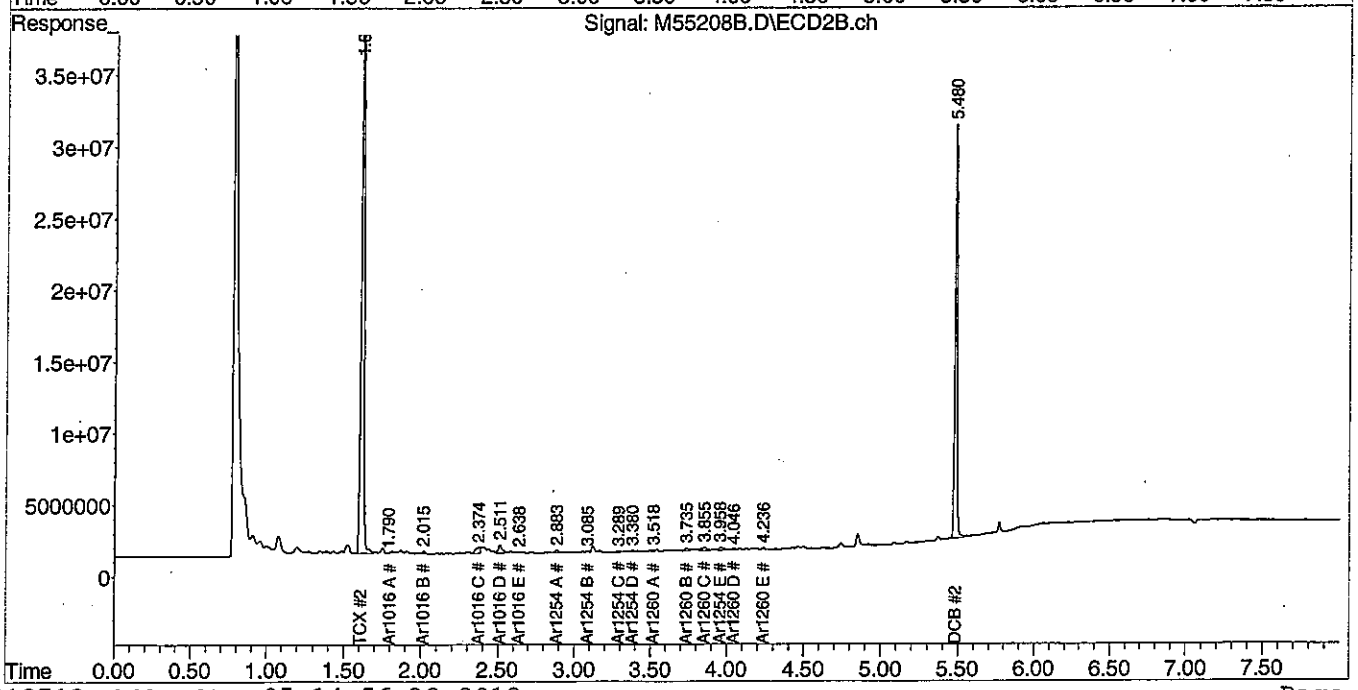
Authorized signature

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55208B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 11:53 am
Operator : JK
Sample : B030212PSOX,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 14:52:08 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 01 03:25:57 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 5, 2012

SAMPLE DATA

Lab Sample ID: 72281-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 03/01/12
Lab Receipt Date: 03/02/12
Extraction Date: 03/02/12
Analysis Date: 03/05/12

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons
Project Number: 222822
Field Sample ID: UMSC-VWM-171

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	71	%
Decachlorobiphenyl	83	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

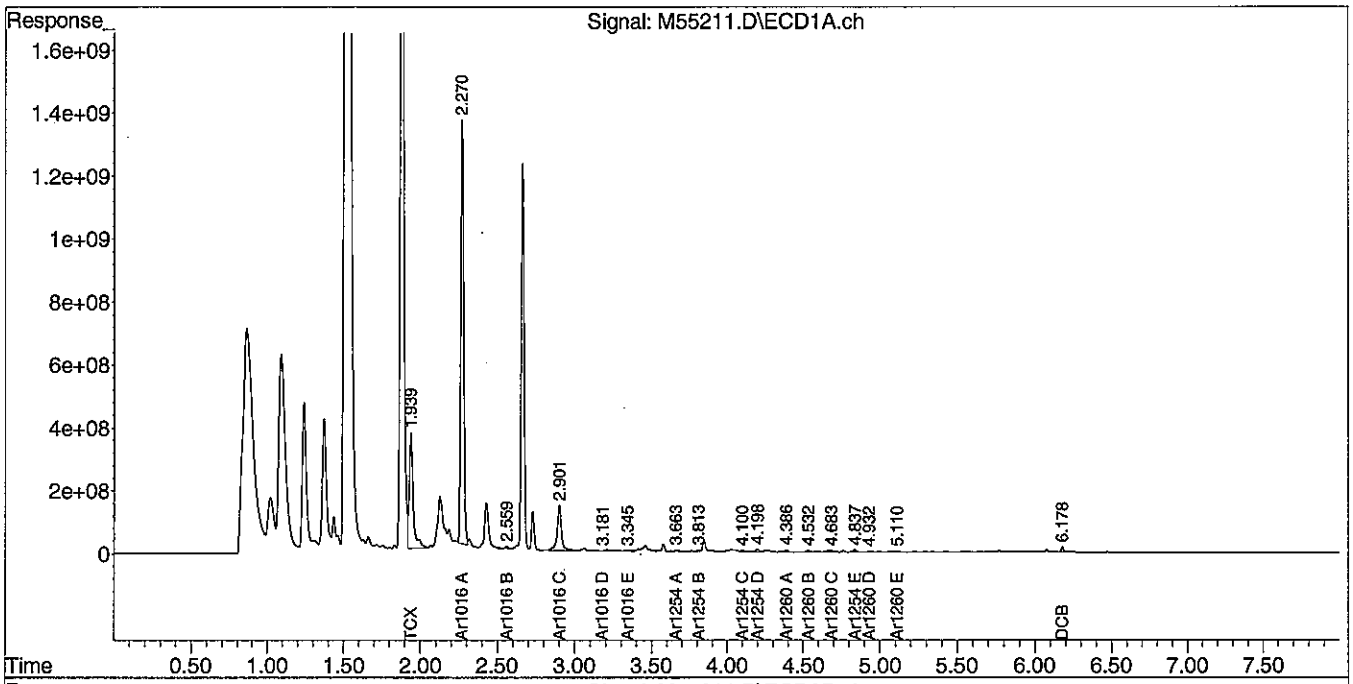
PCB Report

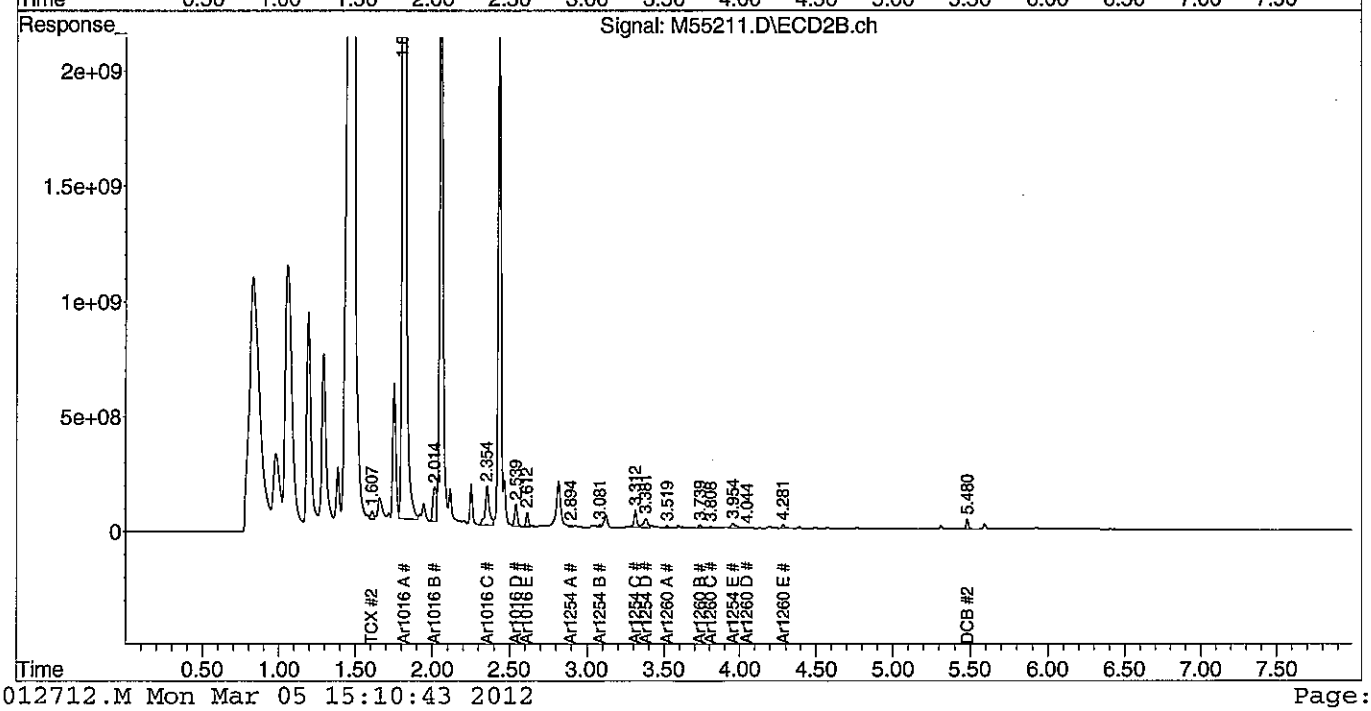
Authorized signature

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55211.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 12:23 pm
Operator : JK
Sample : 72281-1,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 15:10:31 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 01 03:25:57 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 5, 2012

SAMPLE DATA

Lab Sample ID:	72281-2
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	2.0
Collection Date:	03/01/12
Lab Receipt Date:	03/02/12
Extraction Date:	03/02/12
Analysis Date:	03/05/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-177

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	1	U
PCB-1221	1	U
PCB-1232	1	U
PCB-1242	1	U
PCB-1248	1	U
PCB-1254	1	**10**
PCB-1260	1	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	71	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72281
Sample: 72281-2,1:2,,A/C
Data File: M55215.D
Dilution Factor: 2.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	10.4	10.2	1.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

PCB FORM 10

analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 5, 2012

SAMPLE DATA

Lab Sample ID: 72281-3
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 03/01/12
Lab Receipt Date: 03/02/12
Extraction Date: 03/02/12
Analysis Date: 03/05/12

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons
Project Number: 222822
Field Sample ID: UMSC-VWM-178

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**2.1**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	72	%
Decachlorobiphenyl	60	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72281
Sample: 72281-3,,A/C
Data File: M55213.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	2.1	2.1	1.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

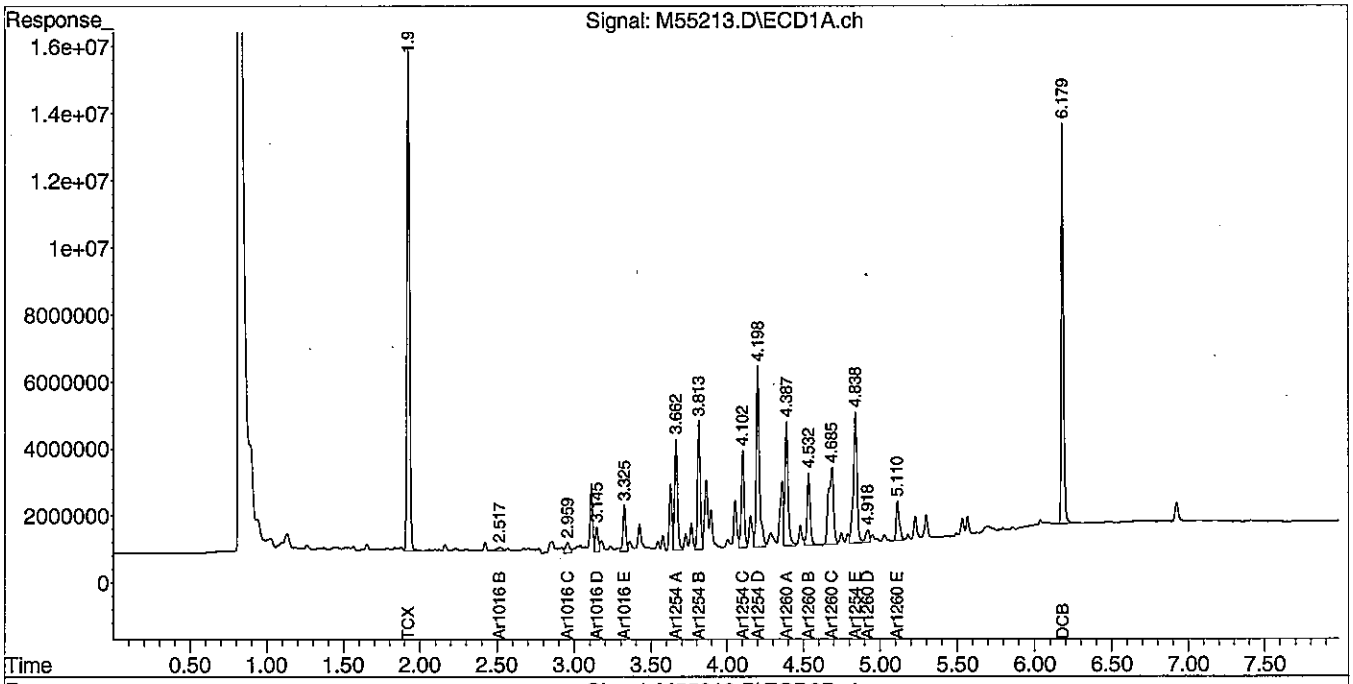
Comments: _____

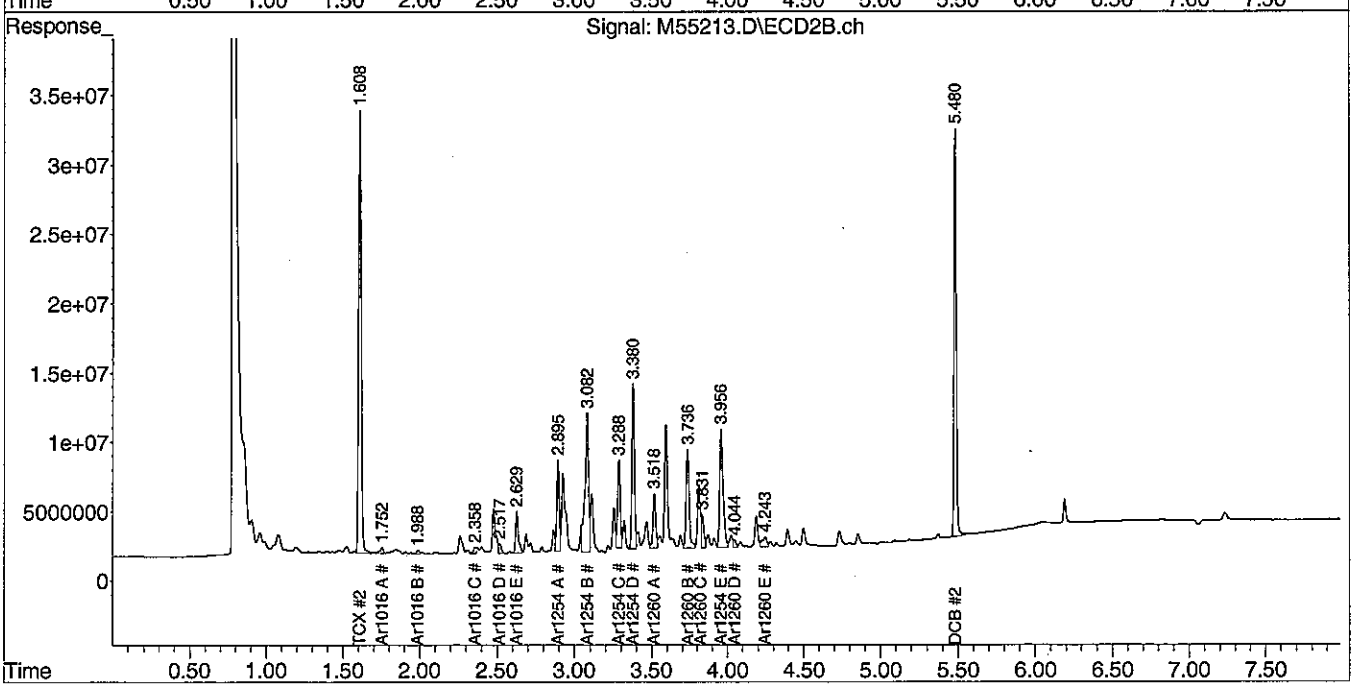
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55213.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 12:44 pm
Operator : JK
Sample : 72281-3,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 15:11:34 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 01 03:25:57 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 5, 2012

SAMPLE DATA

Lab Sample ID:	72281-4
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/01/12
Lab Receipt Date:	03/02/12
Extraction Date:	03/02/12
Analysis Date:	03/05/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-179

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	64	%
Decachlorobiphenyl	104	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

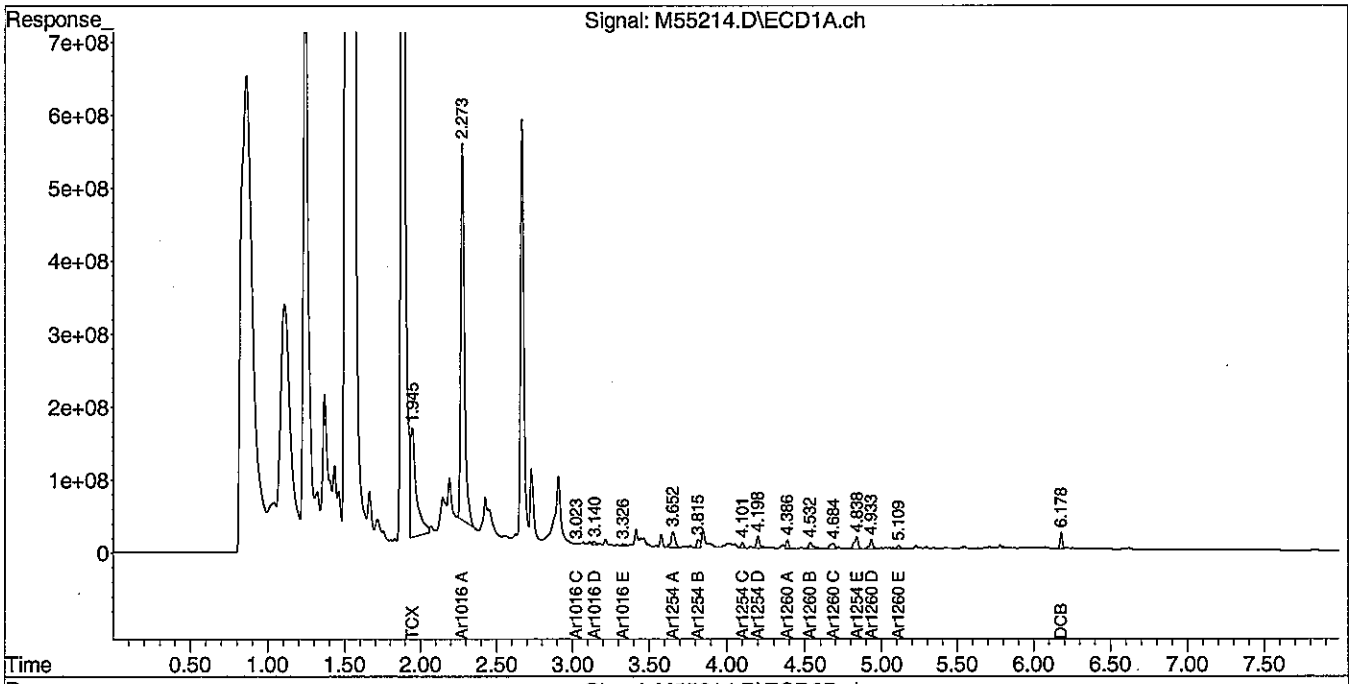
PCB Report

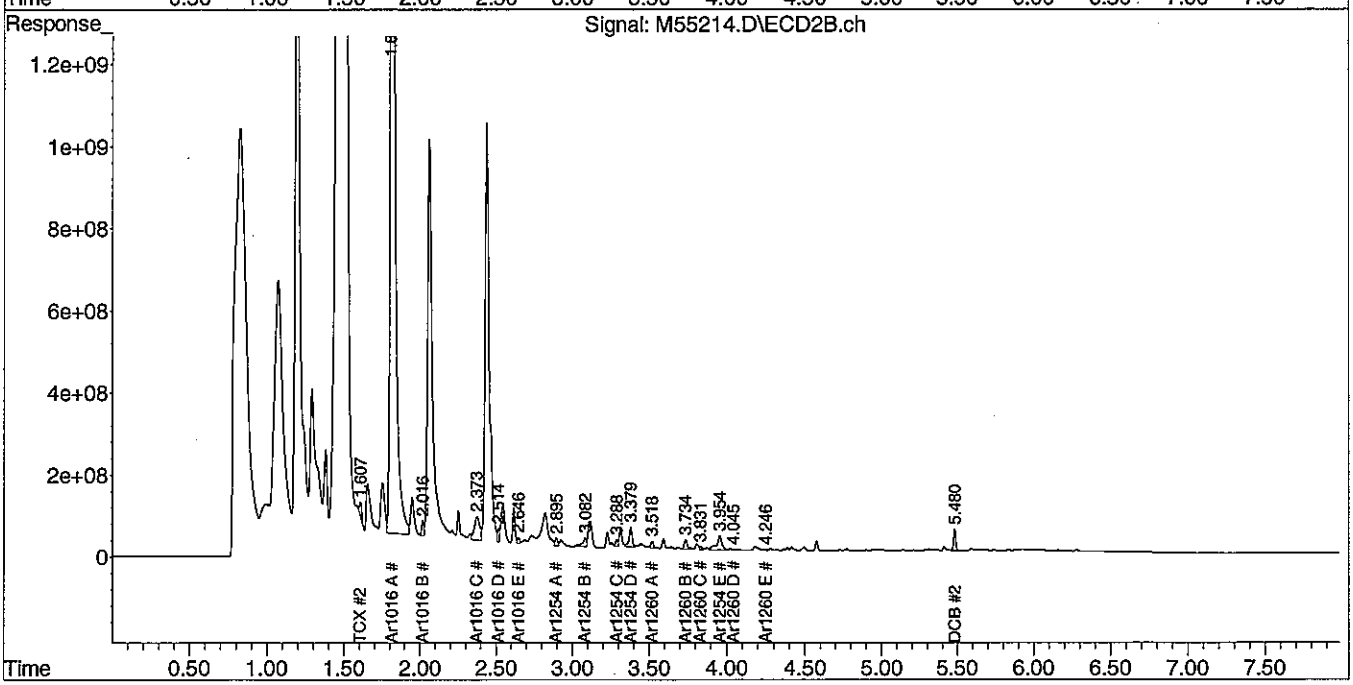
Authorized signature

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55214.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 12:54 pm
Operator : JK
Sample : 72281-4,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 14:52:20 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 01 03:25:57 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um

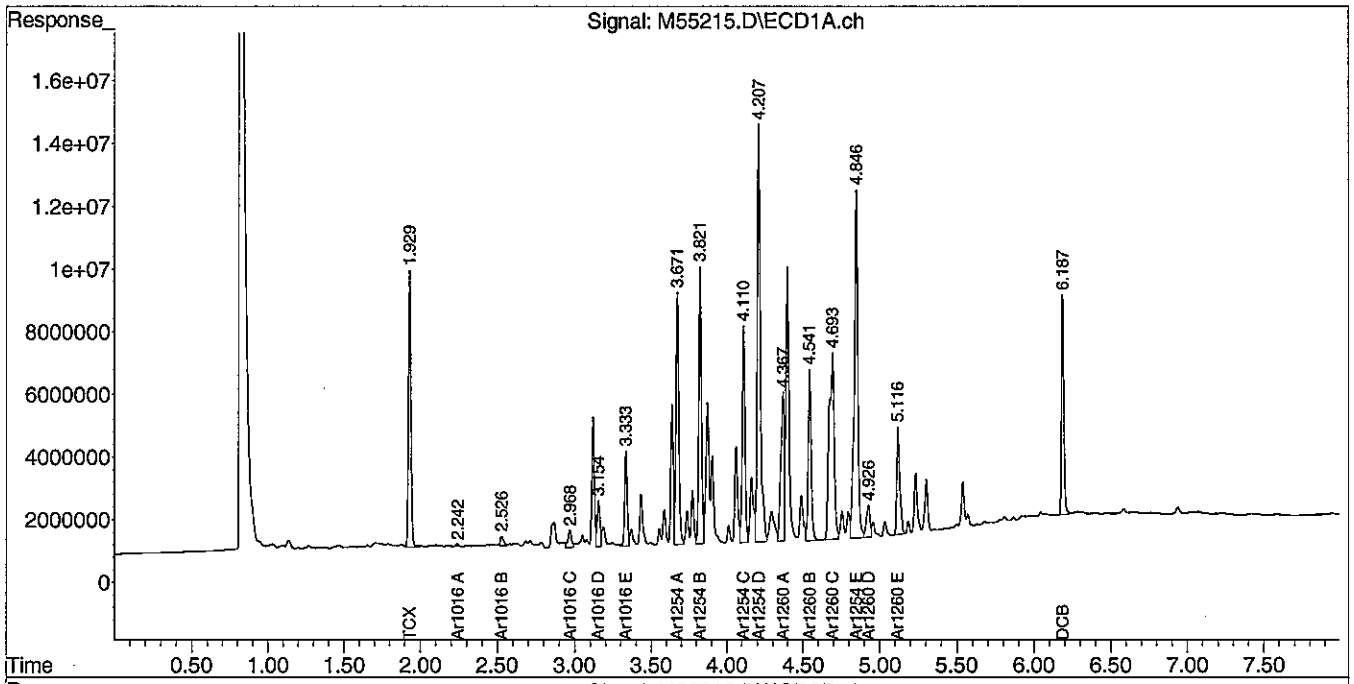


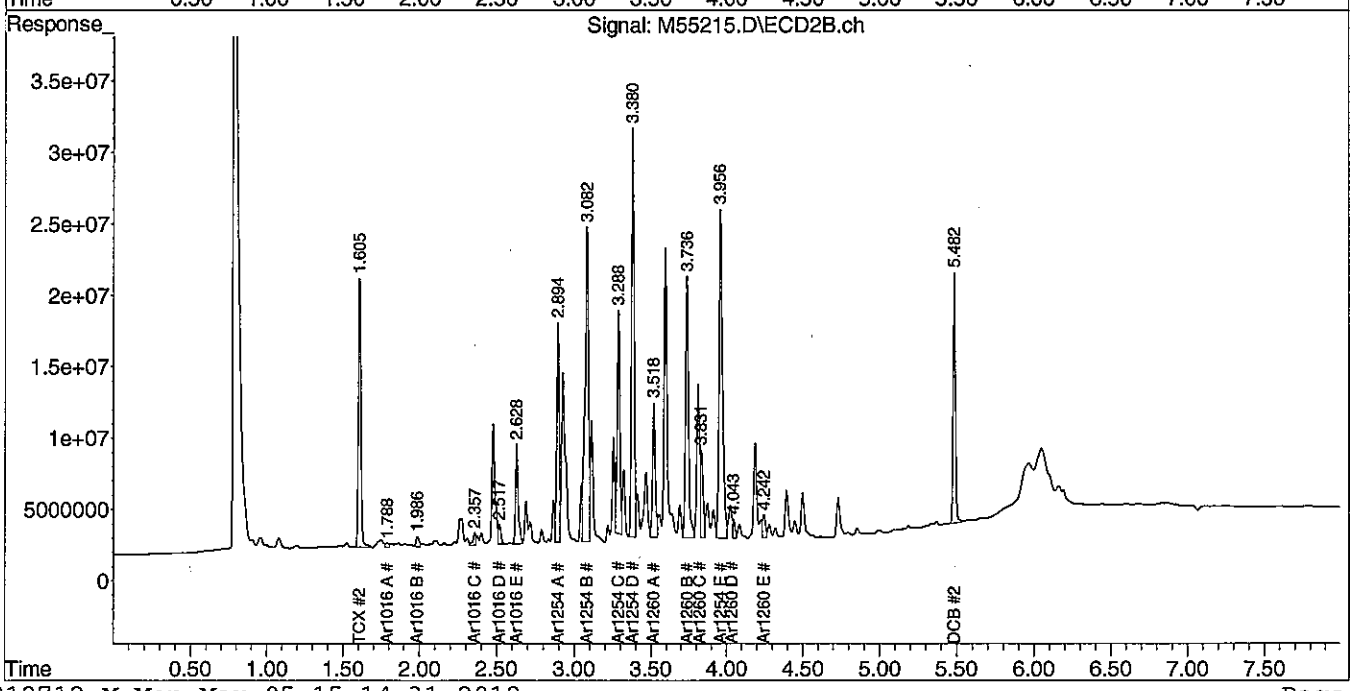


Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55215.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 1:07 pm
Operator : JK
Sample : 72281-2,1:2,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 05 15:14:20 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 01 03:25:57 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72281

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B030212PSOX,,A/C	89		63		82		57	
L030212PSOXW,,A/C	111		62		42		57	
LD030212PSOXW,,A/C	88		70		79		68	
72281-1,,A/C	I		81		71		83	
72281-3,,A/C	72		60		65		58	
72281-4,,A/C	I		108		64		104	
72281-2,1:2,,A/C	83		71		76		71	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72281
Non-spiked sample: B030212PSOX,,A/C
Spike: L030212PSOXW,,A/C
Spike duplicate: LD030212PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	65	140	30	0.0	2.1	107		1.8	90		17.1	
PCB 1260	2.0	2.0	60	130	30	0.0	2.0	102		1.6	82		21.5	
PCB 1016 #2	2.0	2.0	65	140	30	0.0	2.1	105		1.6	80		27.6	
PCB 1260 #2	2.0	2.0	60	130	30	0.0	1.3	64		1.6	80		23.2	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.
Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 3.3°C
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: MT 3.2.12

Project Name: UMaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:

Preservation Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWM-171	3/1/12	1:40					G						WP	1		72281-1
UMSC-VWM-177	3/1/12	16:35					G						WP	1		-2
UMSC-VWM-178	3/1/12	16:40					G						WP	1		-3
UMSC-VWM-179	3/1/12	16:45					G						WP	1		-4

Email Results to:
awallace@woodardcurran.com

Turnaround Time (TAT)
- [ ] 24 Hours*
- [x] 48 Hours*
- [ ] 72 Hours*
- [ ] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:

** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [x] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: _____ (eg. S-1 or GW-1)

EDD Required: Y* N

Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Charlie Smith	Date: 3/1/12	Time: 5:30	Received By:	FedEx
Relinquished By:	FedEx	Date: 3/2/12	Time: 1030	Received By:	Jaelyn
Relinquished By:		Date:	Time:	Received By:	

Page ____ of ____

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72281 COOLER NUMBER: 274

CLIENT: Woodard & Curran NUMBER OF COOLERS: 1

PROJECT: UMaine Stewart Commons

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): JB DATE COOLER RECEIVED/OPENED: 3/2/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: FedEx 8000 4374 4286

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: —

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 3.3°C

B. Log-In: Date samples were logged in: 3/2/12 By: JB

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were bubbles absent in VOA samples? Y N*/A

If NO, List Sample ID's, Lab #s, and the size of the bubble(s): _____

*When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): lmt Date: 3·2·12

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
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800-929-9906
www.analyticslab.com

May 09, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72282 Revision 1
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Revision 1: This report has been revised to include Form 3 data summary page for the laboratory control samples.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
    Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Surrogate Decachlorobiphenyl (DCB) recovery was outside the laboratory accepatnace criteria on column#1 for sample 72282-2 due to matrix interference. Surrogate results were reported with comment.

The closing continuing calibration standard (file#M55133SC) had low recovery for surrogate Decachlorobiphenyl (DCB) on both columns. The closing continuing calibration standard was reanalyzed with low recovery for surrogate Decachlorobiphenyl (DCB) on column #2 but within laboratory criteria on column#1. Surrogate results were reported from column #1.

The laboratory control sample duplicate (LD030212PSOX) was not spiked and therefore not analyzed. The LCSD was re-injected with similar results. The laboratory control sample (L030212PSOX) is reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72282

Revision: Rev. 1

Re: UMaine Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 02 March 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
72282-1	03/01/12	UMSC-VBS-172	EPA 8082 (PCBs only)	
72282-2	03/01/12	UMSC-VBS-173	EPA 8082 (PCBs only)	
72282-3	03/01/12	UMSC-VBS-174	EPA 8082 (PCBs only)	
72282-4	03/01/12	UMSC-VBB-175	EPA 8082 (PCBs only)	
72282-5	03/01/12	UMSC-VBS-176	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 05/09/12

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Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 7, 2012

SAMPLE DATA

Lab Sample ID: B030212PSOX RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 03/02/12
Analysis Date: 03/05/12

CLIENT SAMPLE ID

Project Name: UMaine Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

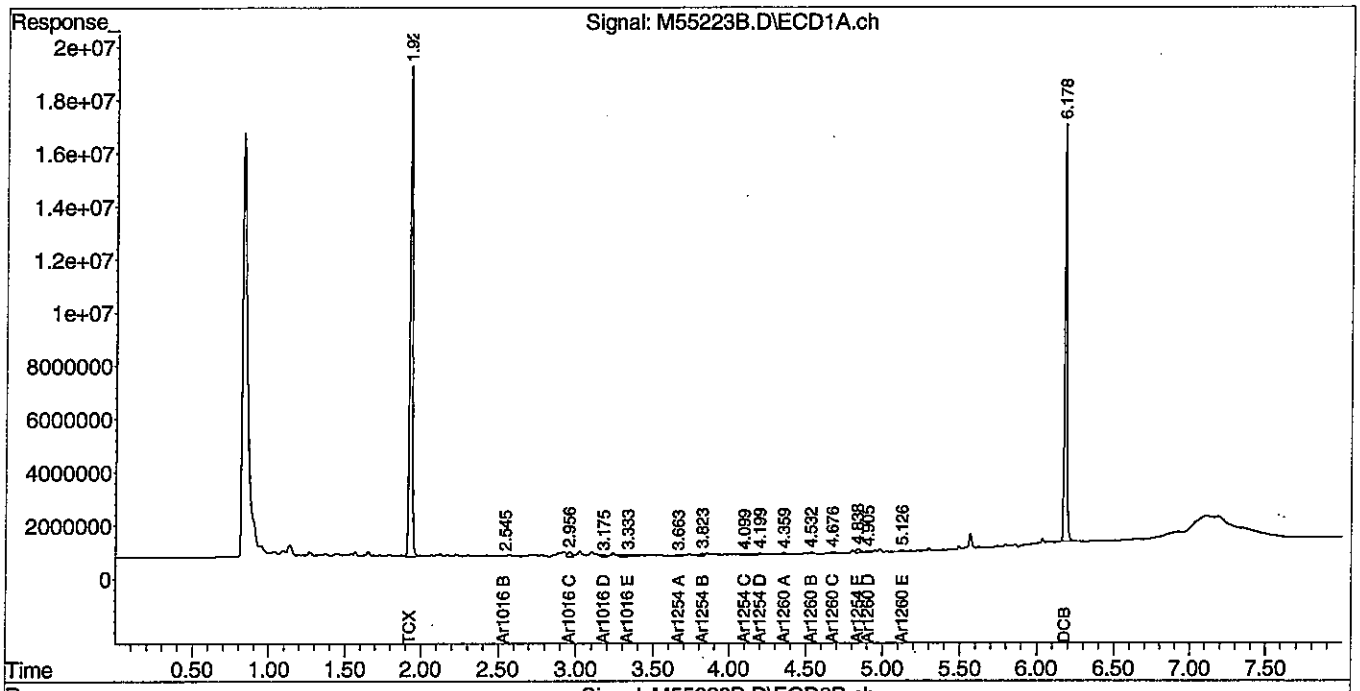
PCB Report

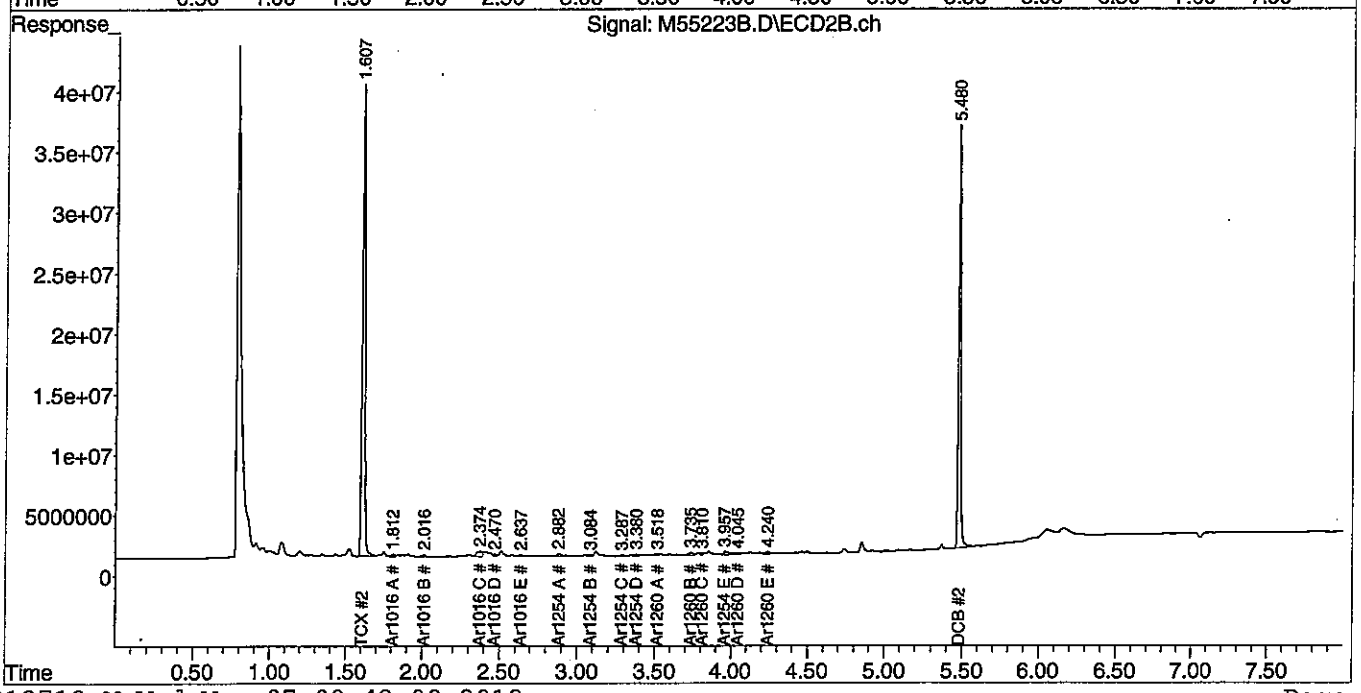
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55223B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 3:05 pm
Operator : JK
Sample : B030212PSOX,RR,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 07 09:37:06 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Mar 06 03:03:20 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 7, 2012

SAMPLE DATA

Lab Sample ID:	72282-1 RR
Matrix:	Solid
Percent Solid:	69
Dilution Factor:	1.3
Collection Date:	03/01/12
Lab Receipt Date:	03/02/12
Extraction Date:	03/02/12
Analysis Date:	03/05/12

CLIENT SAMPLE ID

Project Name:	UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-172

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	43	U
PCB-1221	43	U
PCB-1232	43	U
PCB-1242	43	U
PCB-1248	43	U
PCB-1254	43	U
PCB-1260	43	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	100	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

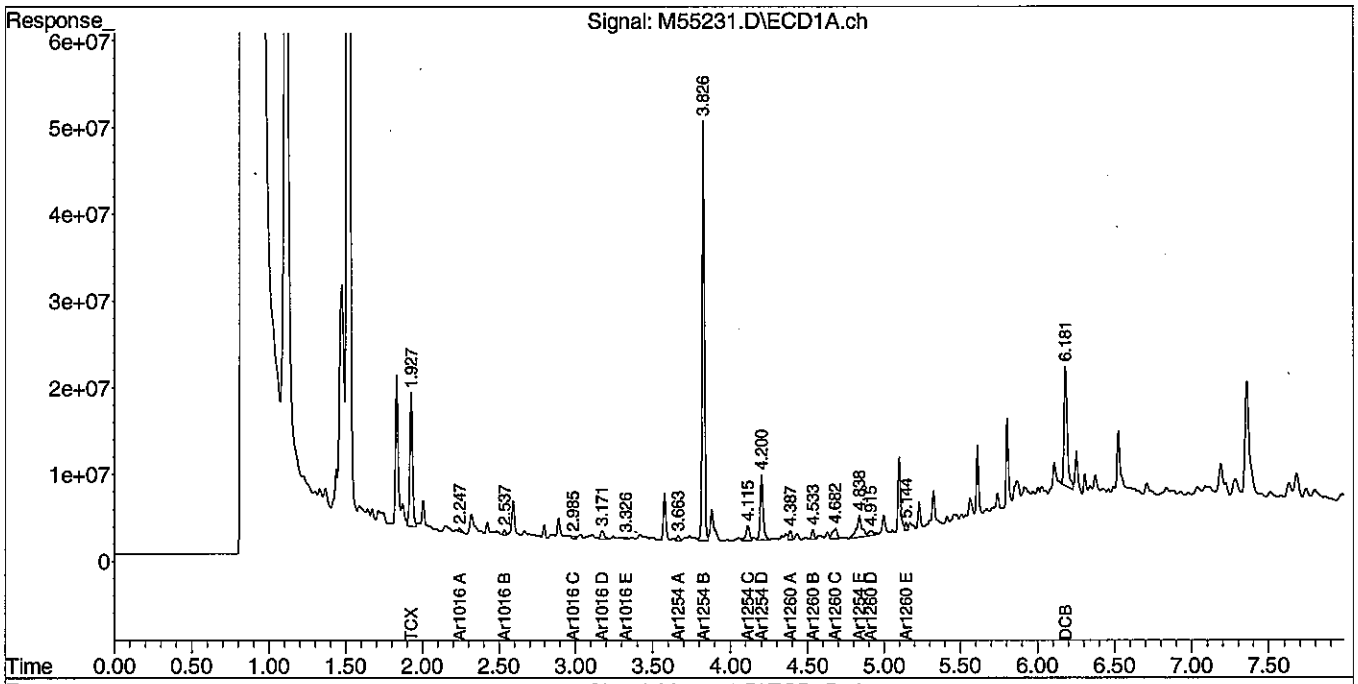
PCB Report

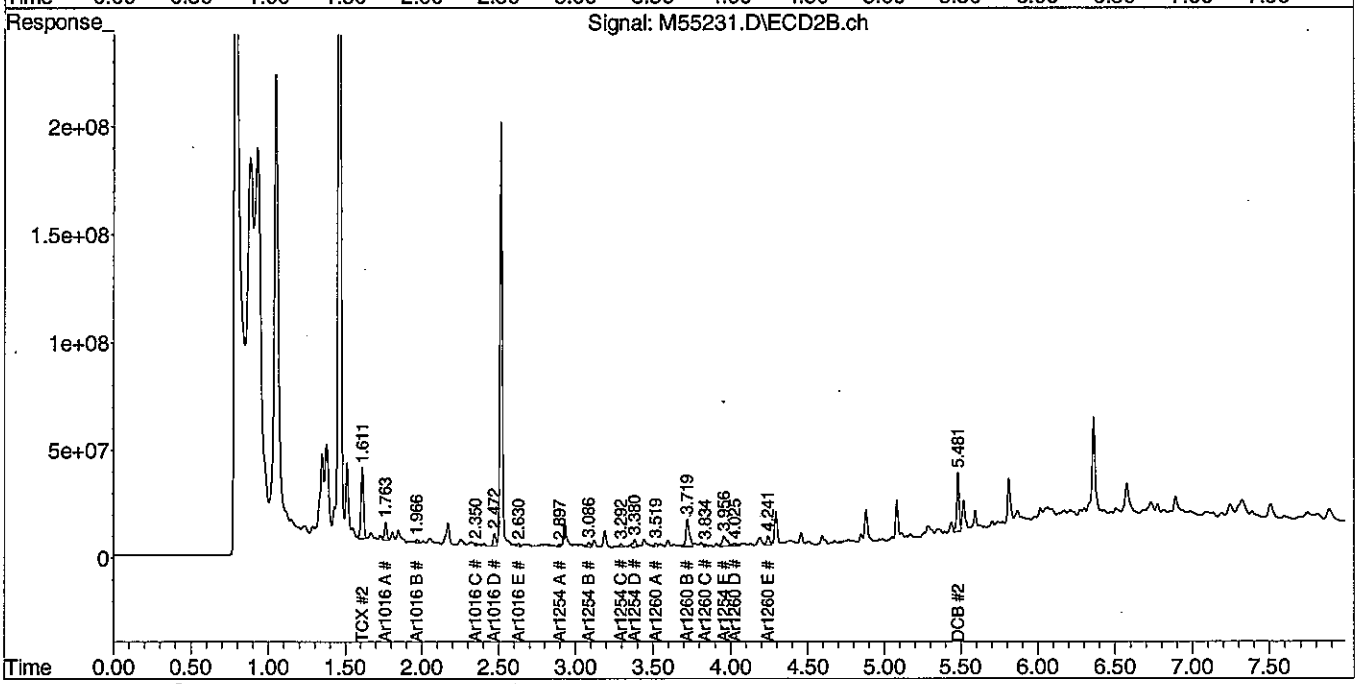
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55231.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 4:18 pm
Operator : JK
Sample : 72282-1,RR,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 07 10:27:28 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Mar 06 03:03:22 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

March 7, 2012

SAMPLE DATA

Lab Sample ID:	72282-2
Matrix:	Solid
Percent Solid:	65
Dilution Factor:	1.5
Collection Date:	03/01/12
Lab Receipt Date:	03/02/12
Extraction Date:	03/02/12
Analysis Date:	03/05/12

CLIENT SAMPLE ID

Project Name:	UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-173

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	50	U
PCB-1221	50	U
PCB-1232	50	U
PCB-1242	50	U
PCB-1248	50	U
PCB-1254	50	U
PCB-1260	50	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	70	%
Decachlorobiphenyl	149*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* Surrogate recovery affected by sample matrix.

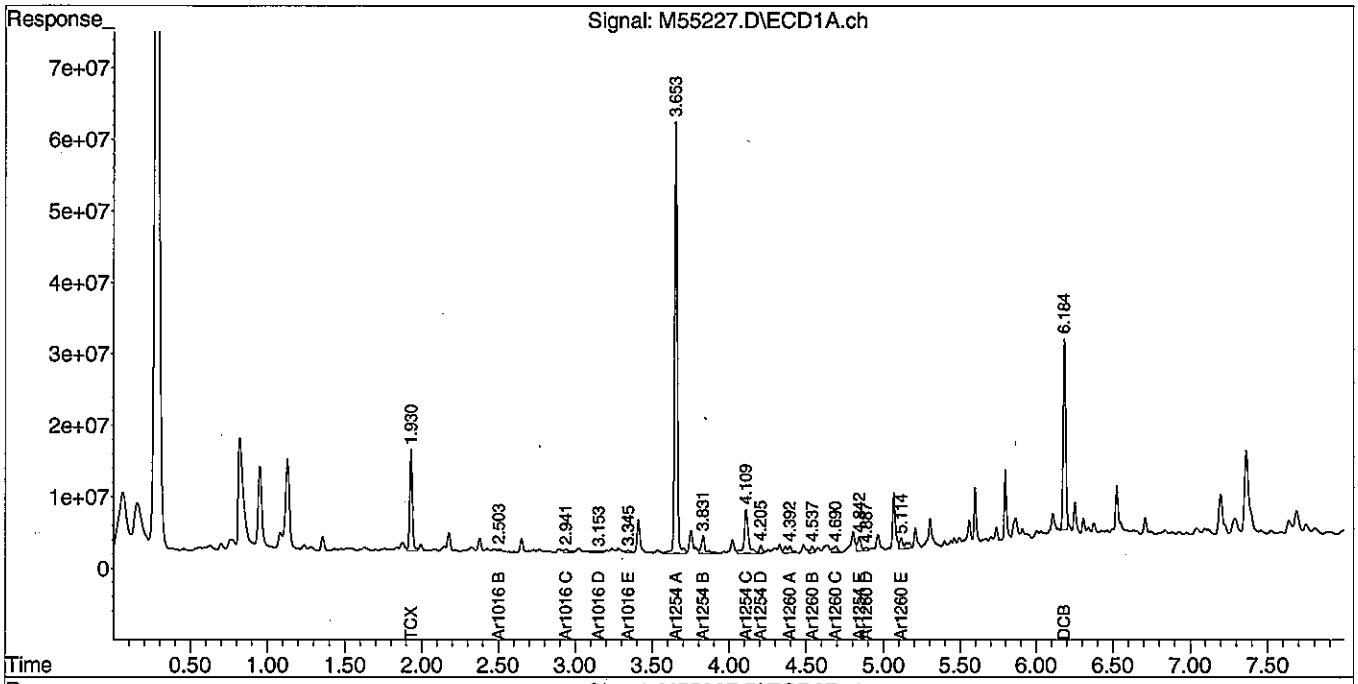
PCB Report

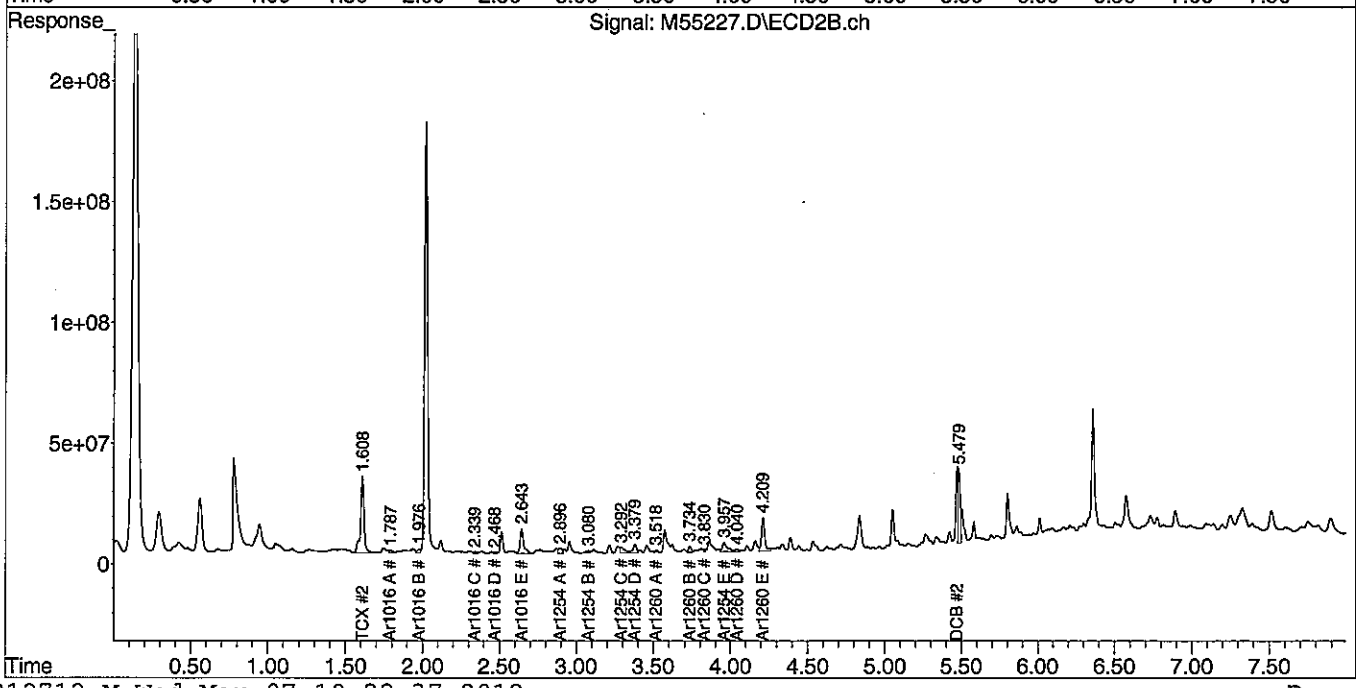
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55227.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 3:38 pm
Operator : JK
Sample : 72282-2,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 07 10:22:28 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Mar 06 03:03:22 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

March 7, 2012

SAMPLE DATA

Lab Sample ID:	72282-3
Matrix:	Solid
Percent Solid:	52
Dilution Factor:	1.8
Collection Date:	03/01/12
Lab Receipt Date:	03/02/12
Extraction Date:	03/02/12
Analysis Date:	03/05/12

CLIENT SAMPLE ID

Project Name:	UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-174

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	59	U
PCB-1221	59	U
PCB-1232	59	U
PCB-1242	59	U
PCB-1248	59	U
PCB-1254	59	**482**
PCB-1260	59	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	124	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Jenna Jenis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72282
Sample: 72282-3,,A/C
Data File: M55228.D
Dilution Factor: 1.8

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	482	403	17.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

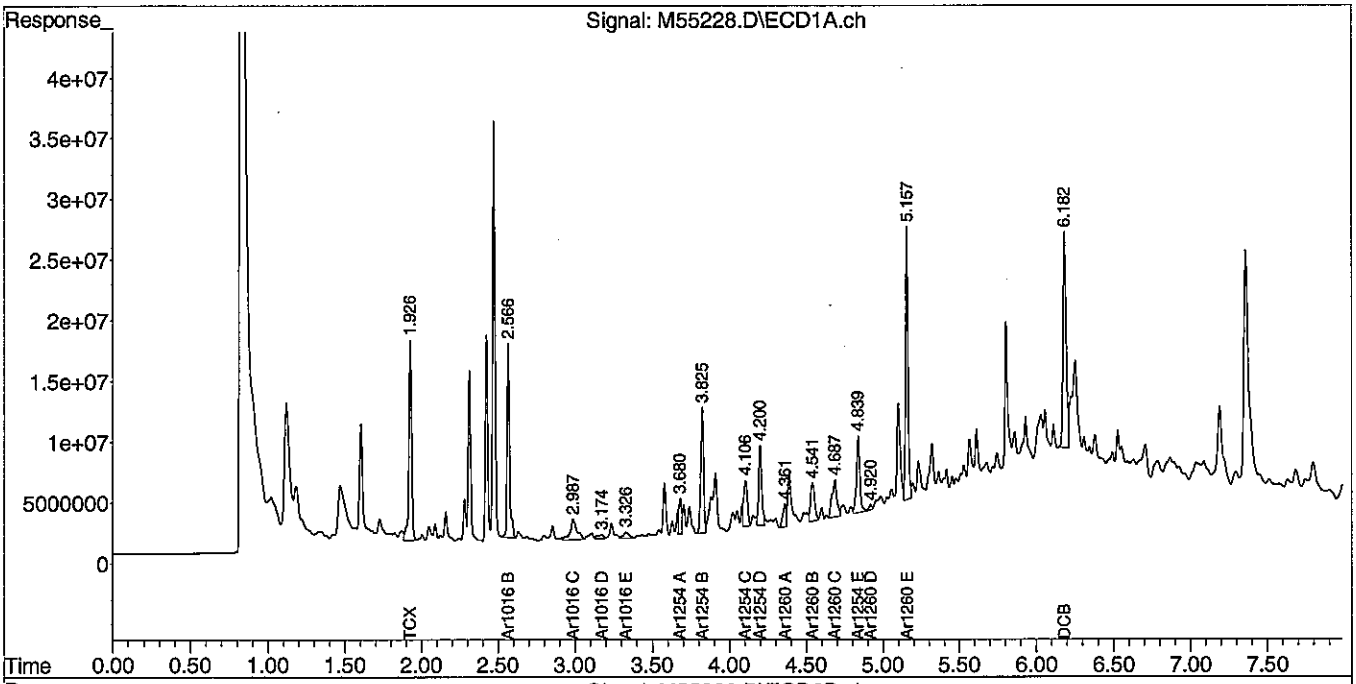
Comments: _____

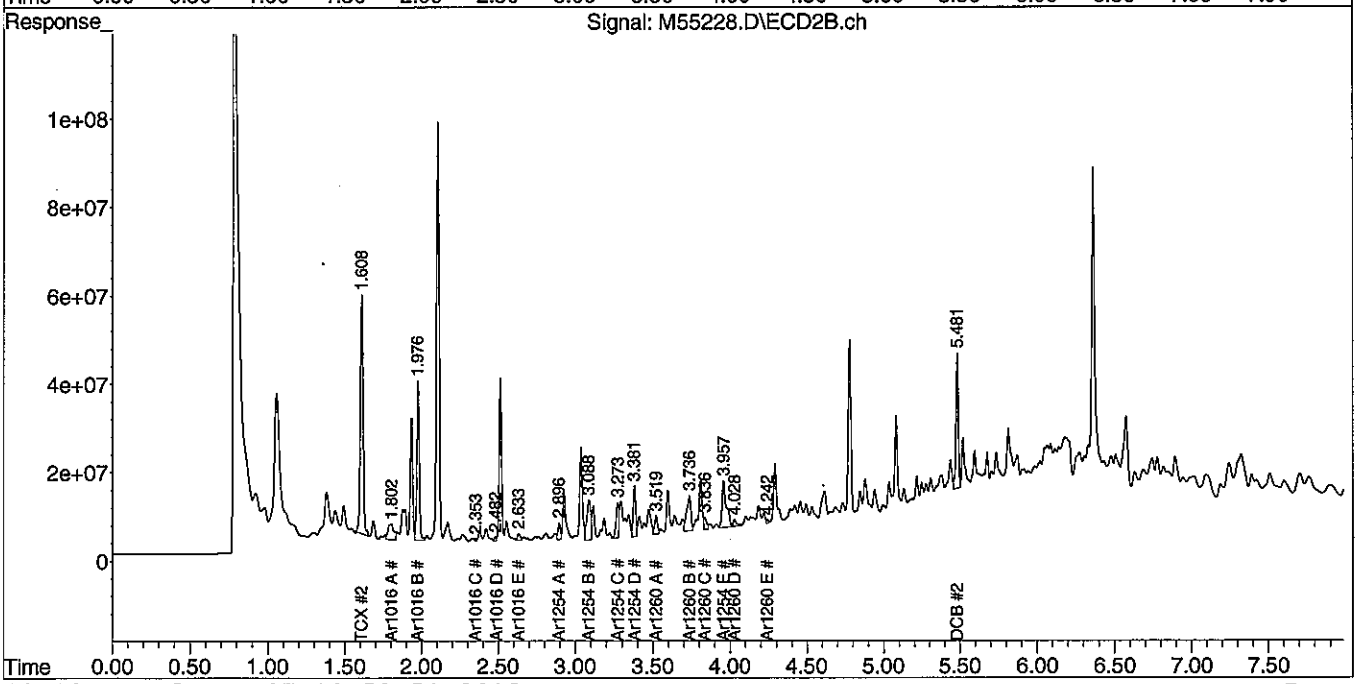
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55228.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 3:48 pm
Operator : JK
Sample : 72282-3,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

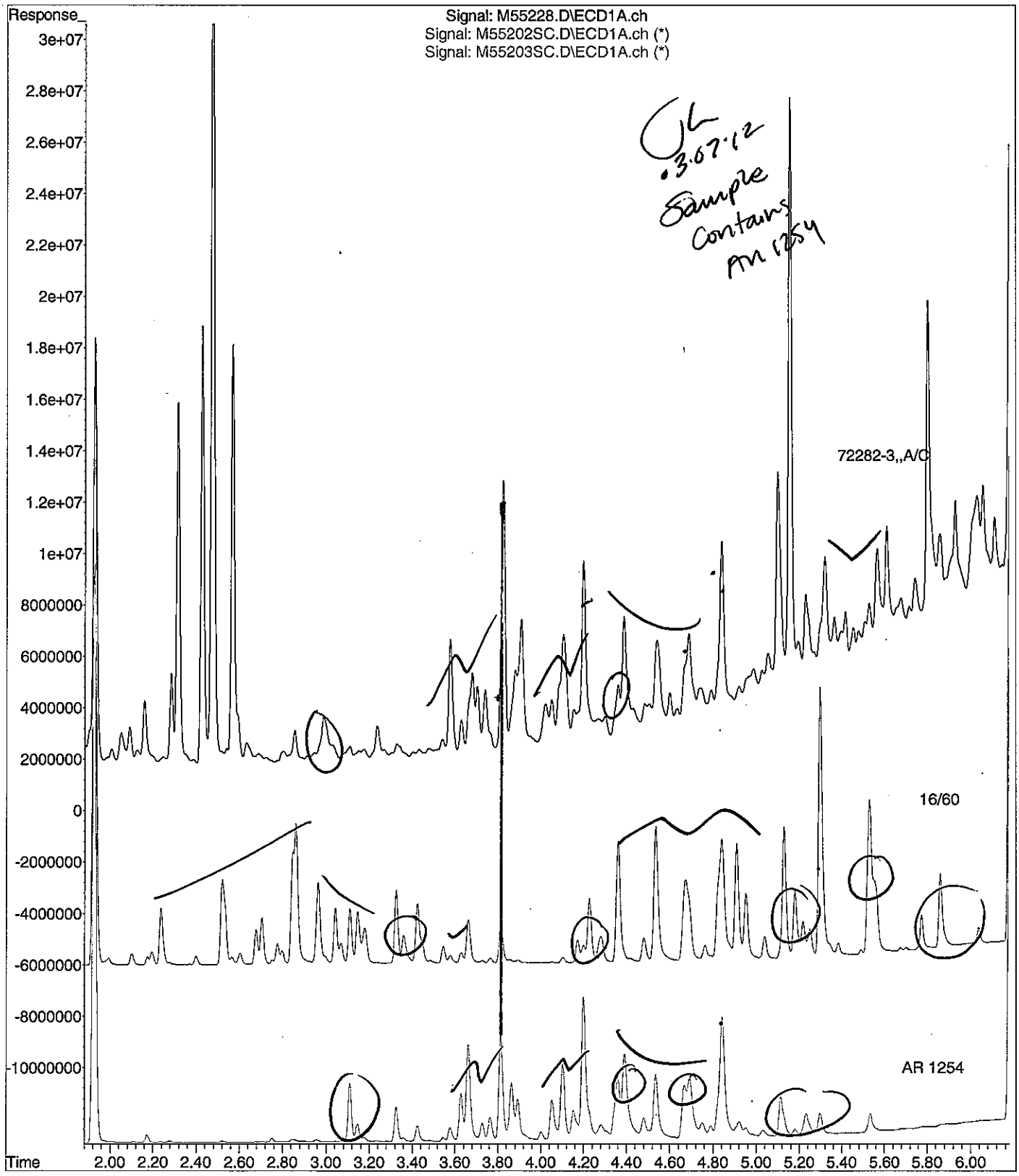
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 07 10:53:42 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Mar 06 03:03:22 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um



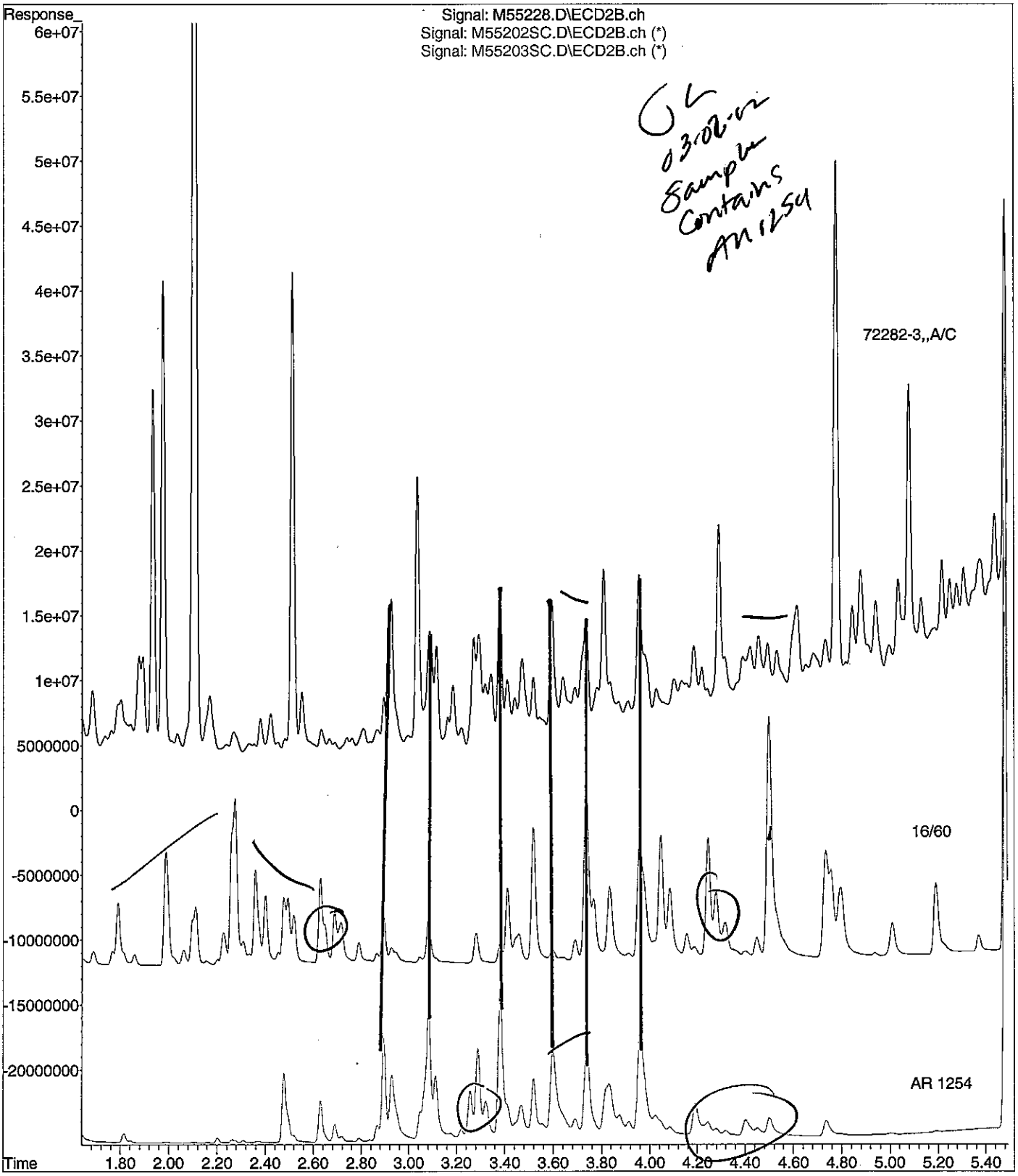


File :C:\msdchem\1\DATA\030512-M\M55228.D
Operator : JK
Acquired : 5 Mar 2012 3:48 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72282-3,,A/C
Misc Info : SOIL
Vial Number: 14



 JK 3.8.12

File :C:\msdchem\1\DATA\030512-M\M55228.D
Operator : JK
Acquired : 5 Mar 2012 3:48 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72282-3,,A/C
Misc Info : SOIL
Vial Number: 14



GC 03.02.12 Sample Contains AR1254

JK 3.8.12

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Portland ME 04102

March 7, 2012

SAMPLE DATA

Lab Sample ID:	72282-4
Matrix:	Solid
Percent Solid:	100
Dilution Factor:	1.0
Collection Date:	03/01/12
Lab Receipt Date:	03/02/12
Extraction Date:	03/02/12
Analysis Date:	03/05/12

CLIENT SAMPLE ID

Project Name:	UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBB-175

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**125**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	84	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Jenna Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72282
Sample: 72282-4,,A/C
Data File: M55229.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	120	125	4.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

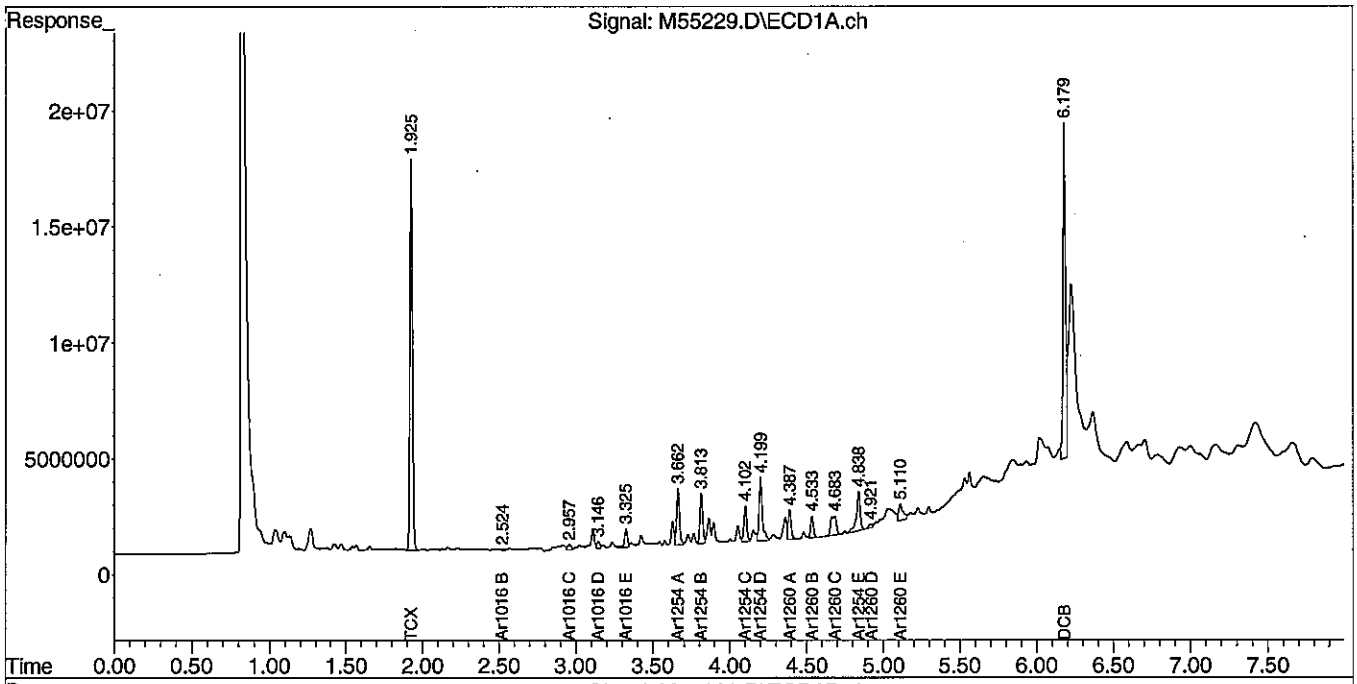
Comments: _____

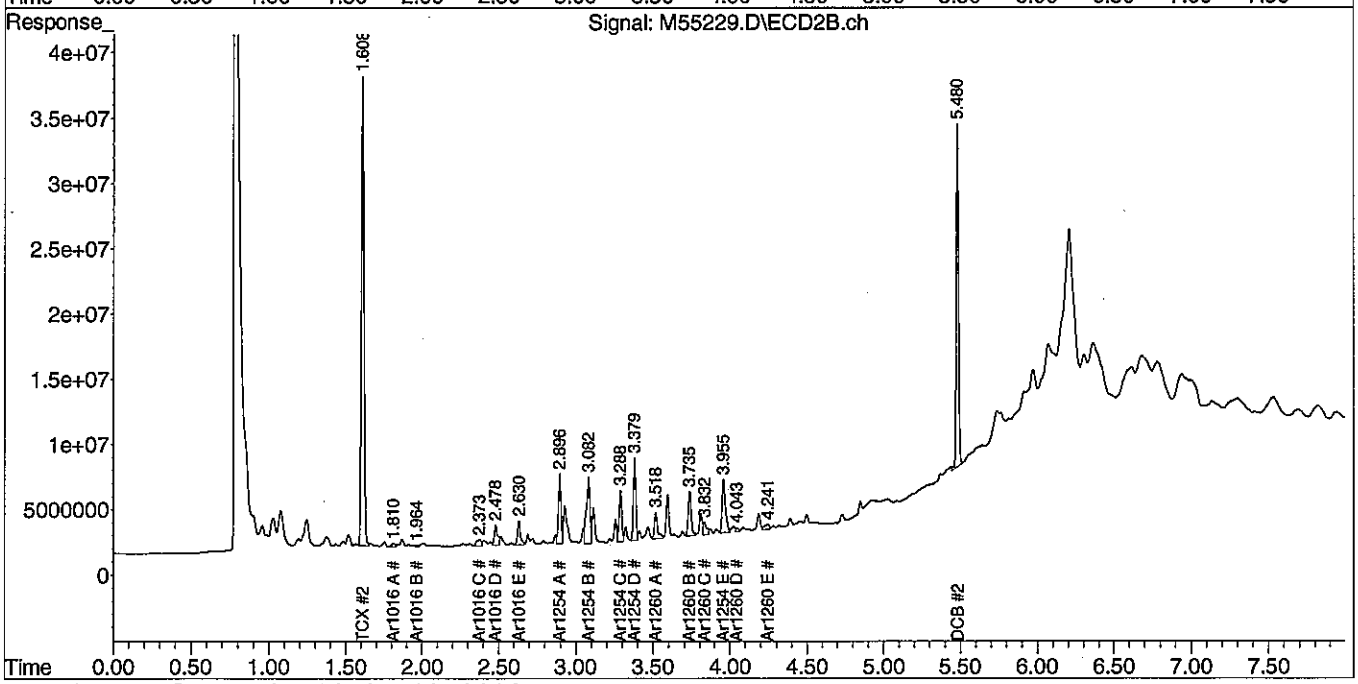
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55229.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 3:58 pm
Operator : JK
Sample : 72282-4,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 07 10:25:03 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Mar 06 03:03:22 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

March 7, 2012

SAMPLE DATA

Lab Sample ID:	72282-5
Matrix:	Solid
Percent Solid:	28
Dilution Factor:	3.3
Collection Date:	03/01/12
Lab Receipt Date:	03/02/12
Extraction Date:	03/02/12
Analysis Date:	03/05/12

CLIENT SAMPLE ID

Project Name:	UMaine Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-176

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	109	U
PCB-1221	109	U
PCB-1232	109	U
PCB-1242	109	U
PCB-1248	109	U
PCB-1254	109	**1090**
PCB-1260	109	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	72	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Jenna Jenny

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72282
Sample: 72282-5,,A/C
Data File: M55230.D
Dilution Factor: 3.3

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	1092	960	12.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

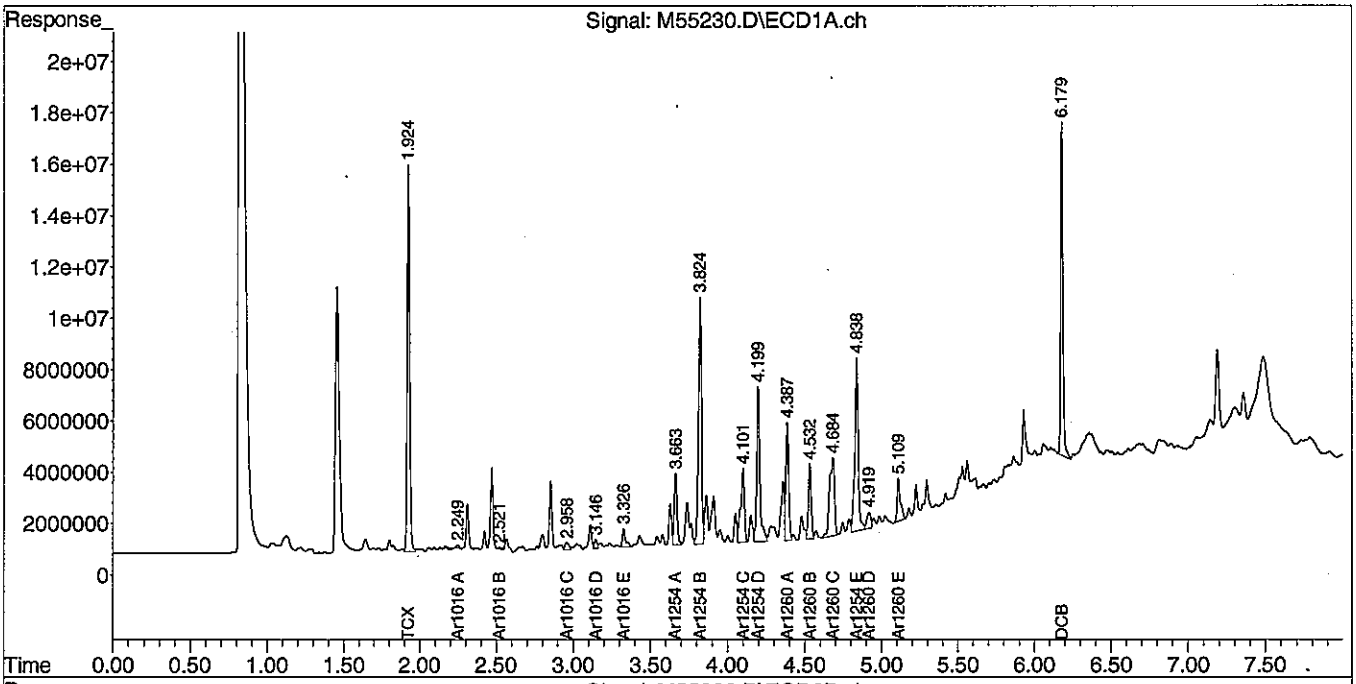
Comments: _____

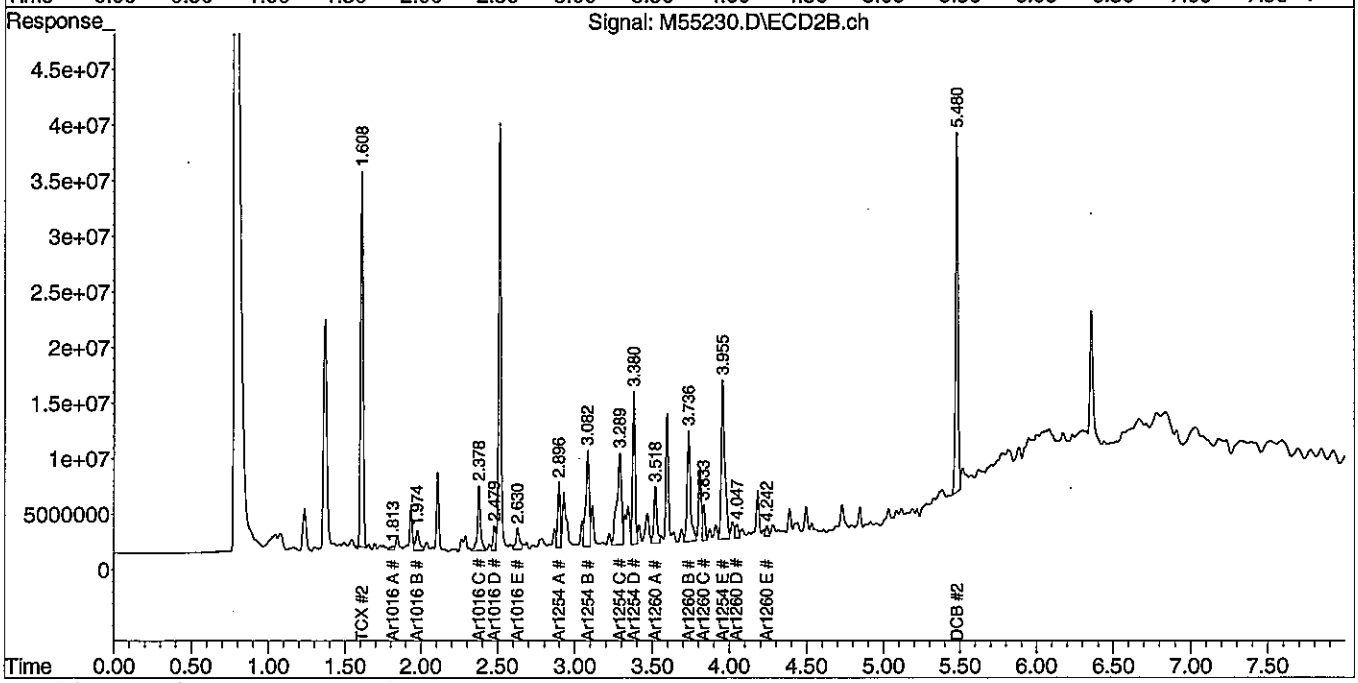
PCB FORM 10

Data Path : C:\msdchem\1\DATA\030512-M\
Data File : M55230.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 5 Mar 2012 4:08 pm
Operator : JK
Sample : 72282-5,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

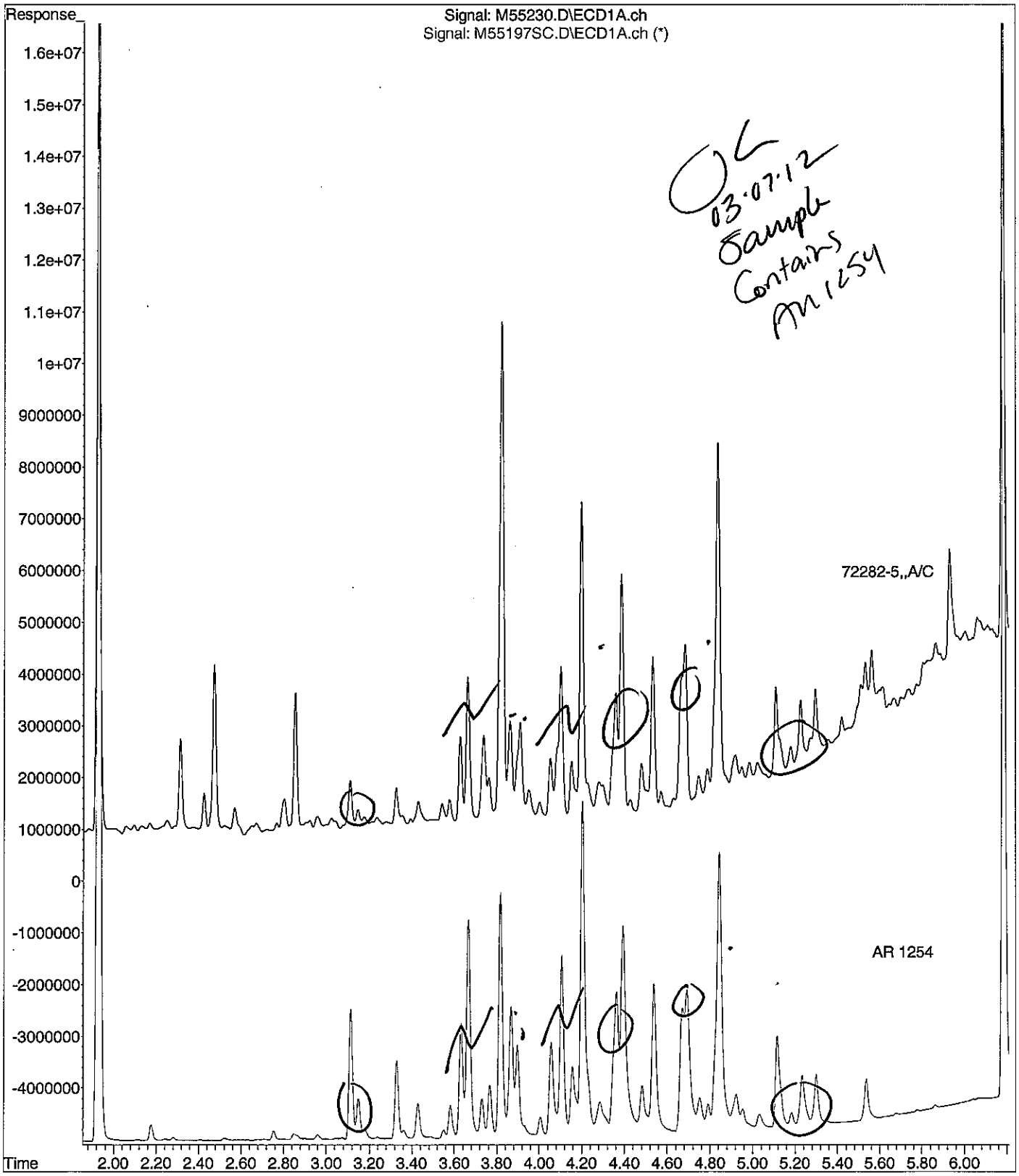
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Mar 07 09:37:20 2012
Quant Method : C:\msdchem\1\METHODS\PCB012712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue Mar 06 03:03:22 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\030512-M\M55230.D
Operator : JK
Acquired : 5 Mar 2012 4:08 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72282-5,,A/C
Misc Info : SOIL
Vial Number: 16



OK 03.07.12
Sample Contains AR1254

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72282

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B030212PSOX,RR,,A/C	90		78		82		71	
L030212PSOX,,A/C	82		73		77		70	
72282-2,,A/C	70		149	*	84		63	
72282-3,,A/C	86		124		116		62	
72282-4,,A/C	81		84		72		51	
72282-5,,A/C	72		66		66		69	
72282-1,RR,,A/C	79		100		68		56	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72282

Non-spiked sample: B030212PSOX,RR,,A/C

Spike: L030212PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#
PCB 1016	200	65	140	30	0	165	82	
PCB 1260	200	60	130	30	0	160	80	
PCB 1016 #2	200	65	140	30	0	160	80	
PCB 1260 #2	200	60	130	30	0	164	82	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 3.3
3) Received in good condition: (Y) or N
4) pH checked by: NH
5) Labels checked by: lmt 3.2.12

Project Name: Umaine Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
~~Portsmouth~~ Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:
Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VBS-172	3/1/12	13:45					B						S	1		72282-1
UMSC-VBS-173	3/1/12	14:10					B						S	1		-2
UMSC-VBS-174	3/1/12	15:00					B						S	1		-3
UMSC-VBB-175	2/27/12	12:15					B						Brick	1		-4
UMSC-VBS-176	3/1/12	15:20					B						S	1		-5

Email Results to: awallace@woodardcurran.com

Turnaround Time (TAT): ☐ 24 Hours* ☐ 48 Hours* ☐ 72 Hours* ☒ 5 Days* ☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here
*Label on container states "3:05 as sample time" JBB 3/2/12

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply
Report Type: ☐ MCP* ☒ Level II* ☐ CTRCP* ☐ Level III* ☐ DOD* ☐ Level IV* ☐ Standard
State: ☐ NH ☐ MA ☒ ME ☐ CT ☐ RI Other:
State Standard: (eg. S-1 or GW-1)
EDD Required: Y* (N)
Type:

Sampler Name (Print): Charlie Smith
Relinquished By Sampler: [signature] Date: 3/1/12 Time: 5:30 Received By: FedEx
Relinquished By: FedEx Date: 3/2/12 Time: 1030 Received By: [signature]
Relinquished By: Date: Time: Received By:

Page ___ of ___

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72282 COOLER NUMBER: 274

CLIENT: Woodard & Curran NUMBER OF COOLERS: 1

PROJECT: Uthane Stewart Commons

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): JSB DATE COOLER RECEIVED/OPENED: 3/2/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: FedEx 8000 4374 4286

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: —

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 3.3°C

B. Log-In: Date samples were logged in: 3/2/12 By: JSB

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N *see coc

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were bubbles absent in VOA samples? Y N* N/A

If NO, List Sample ID's, Lab #s, and the size of the bubble(s): _____

*When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): lmt Date: 3·2·12

FedEx Express **NEW Package US Airbill**

FedEx Tracking Number 8000 4374 4286

0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 3/1/12 [redacted]

Sender's Name Charlie Smith Phone 603 913-4674

Company Woodard & Curran

Address 1 Merchants Plaza Suite 501 Dept./Floor/Suite/Room

City Bangor State ME ZIP 04401

2 Your Internal Billing Reference

3 To

Recipient's Name Analytics Lab Phone

Company

Address 195 Commerce Way Suite E Dept./Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

01 ☐ HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

31 ☐ HOLD Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

City Portsmouth State NH ZIP 03801

8000 4374 4286

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

Next Business Day

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☐ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☒ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ NEW FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day — Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other.

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. 06 ☐ Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below.

1 ☒ Sender — Acct. No. in Section 1 will be billed. 2 ☐ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

Obtain recip. Acct. No. ☐

[redacted]

Total Packages 1 Total Weight 8 lbs. [redacted] Credit Card Auth.

[1] Our liability is limited to $100 unless you declare a higher value. See the current FedEx Service Guide for details.

612

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analytics environmental laboratory LLC

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800-929-9906
www.analyticslab.com

March 26, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72373
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Samples 72373-4 thru 72373-7 and 72373-14, 72373-20, 72373-21 all required dilutions due to PCB concentrations that exceeded the calibration of the instrument.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

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800-929-9906
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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72373

Revision: Rev. 0

Re: UMaine-Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 20 March 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 3/26/2012

This report shall not be reproduced, except in full, without the written consent of Analytics Environmental Laboratory, LLC.

analytics environmental laboratory LLC

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CLIENT: Woodard & Curran **REPORT NUMBER: 72373** **REV: Rev. 0**

PROJECT: UMaine-Stewart Commons (Project No: 222822)

Lab Number	Sample Date	Station Location	Analysis	Comments
72373-1	03/13/12	UMSC-VWG-180	EPA 8082 (PCBs only)	
72373-2	03/13/12	UMSC-VWG-181	EPA 8082 (PCBs only)	
72373-3	03/13/12	UMSC-VWG-182	EPA 8082 (PCBs only)	
72373-4	03/13/12	UMSC-VWG-183	EPA 8082 (PCBs only)	
72373-5	03/13/12	UMSC-VWG-184	EPA 8082 (PCBs only)	
72373-6	03/19/12	UMSC-VWM-185	EPA 8082 (PCBs only)	
72373-7	03/19/12	UMSC-VWM-186	EPA 8082 (PCBs only)	
72373-8	03/19/12	UMSC-VWM-187	EPA 8082 (PCBs only)	
72373-9	03/19/12	UMSC-VWM-188	EPA 8082 (PCBs only)	
72373-10	03/19/12	UMSC-VWM-189	EPA 8082 (PCBs only)	
72373-11	03/19/12	UMSC-VWM-191	EPA 8082 (PCBs only)	
72373-12	03/19/12	UMSC-VWM-192	EPA 8082 (PCBs only)	
72373-13	03/19/12	UMSC-VWM-193	EPA 8082 (PCBs only)	
72373-14	03/19/12	UMSC-VWM-194	EPA 8082 (PCBs only)	
72373-15	03/19/12	UMSC-VWM-195	EPA 8082 (PCBs only)	
72373-16	03/19/12	UMSC-VWM-196	EPA 8082 (PCBs only)	
72373-17	03/19/12	UMSC-VWM-197	EPA 8082 (PCBs only)	
72373-18	03/19/12	UMSC-VWM-198	EPA 8082 (PCBs only)	
72373-19	03/13/12	UMSC-VWM-199	EPA 8082 (PCBs only)	
72373-20	03/19/12	UMSC-VWM-200	EPA 8082 (PCBs only)	
72373-21	03/19/12	UMSC-VWM-190	EPA 8082 (PCBs only)	

analytics environmental laboratory LLC

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

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PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 26, 2012

SAMPLE DATA

Lab Sample ID: B032012PSOX
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 03/20/12
Analysis Date: 03/22/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	75	%
Decachlorobiphenyl	100	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

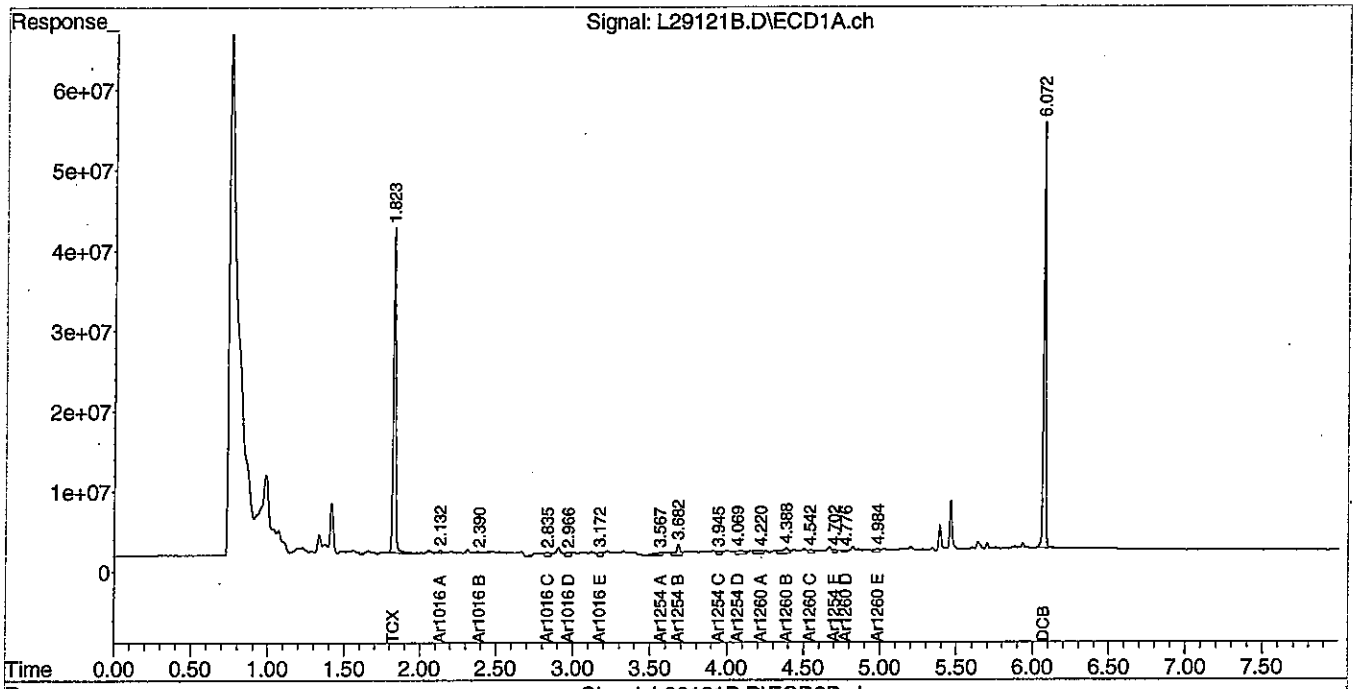
PCB Report

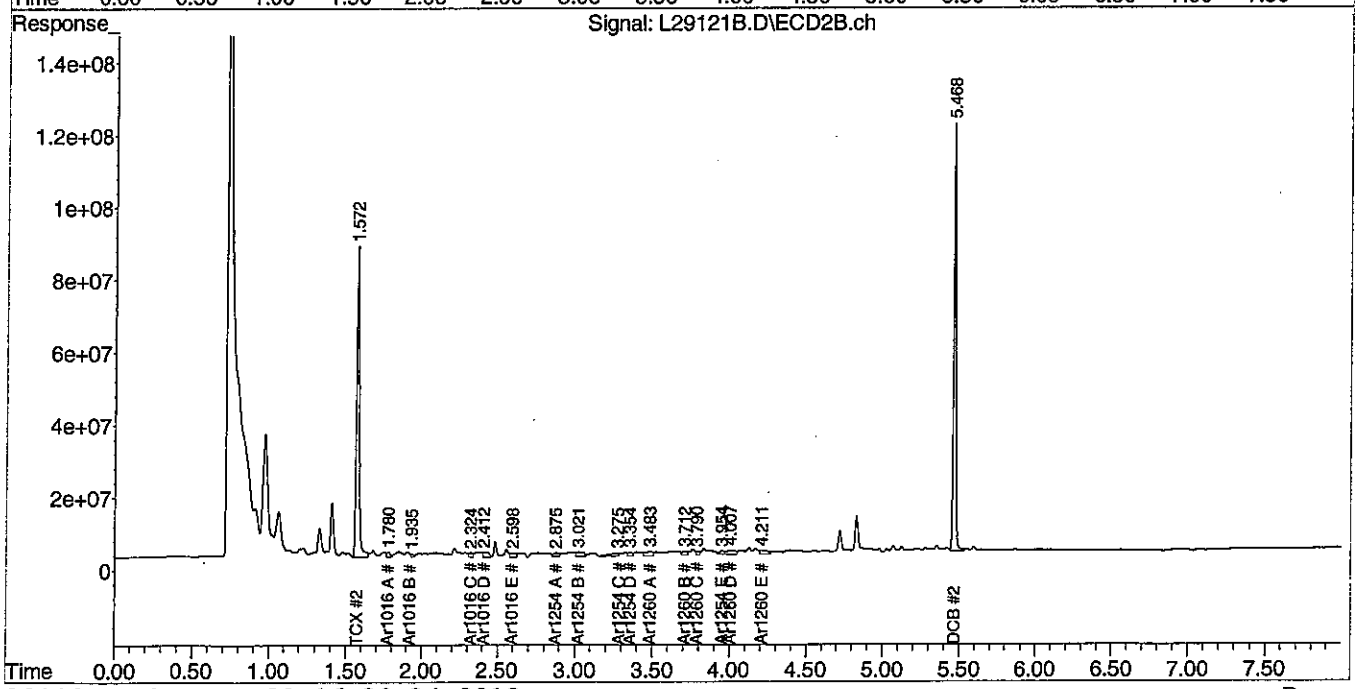
Authorized signature

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29121B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 1:52 pm
Operator : JK
Sample : B032012PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 22 16:39:33 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 23, 2012

SAMPLE DATA

Lab Sample ID: B032112PSOX2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 03/21/12
Analysis Date: 03/22/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	87	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

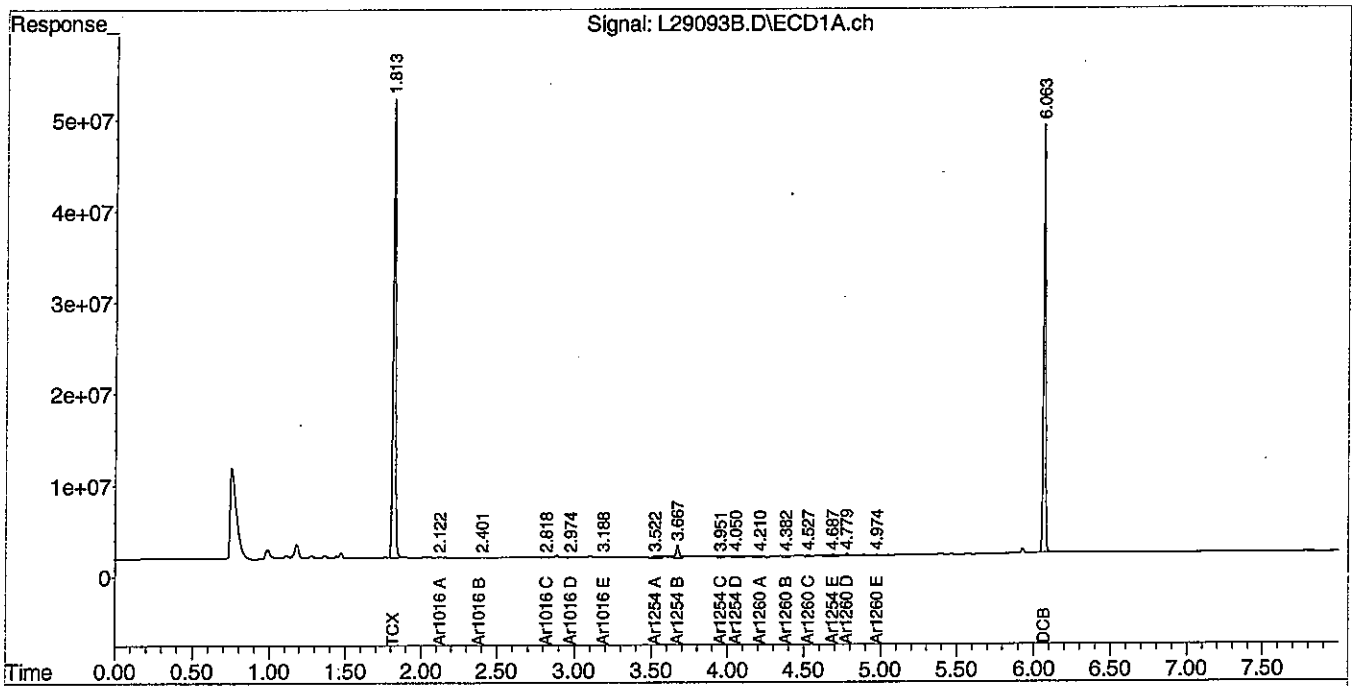
PCB Report

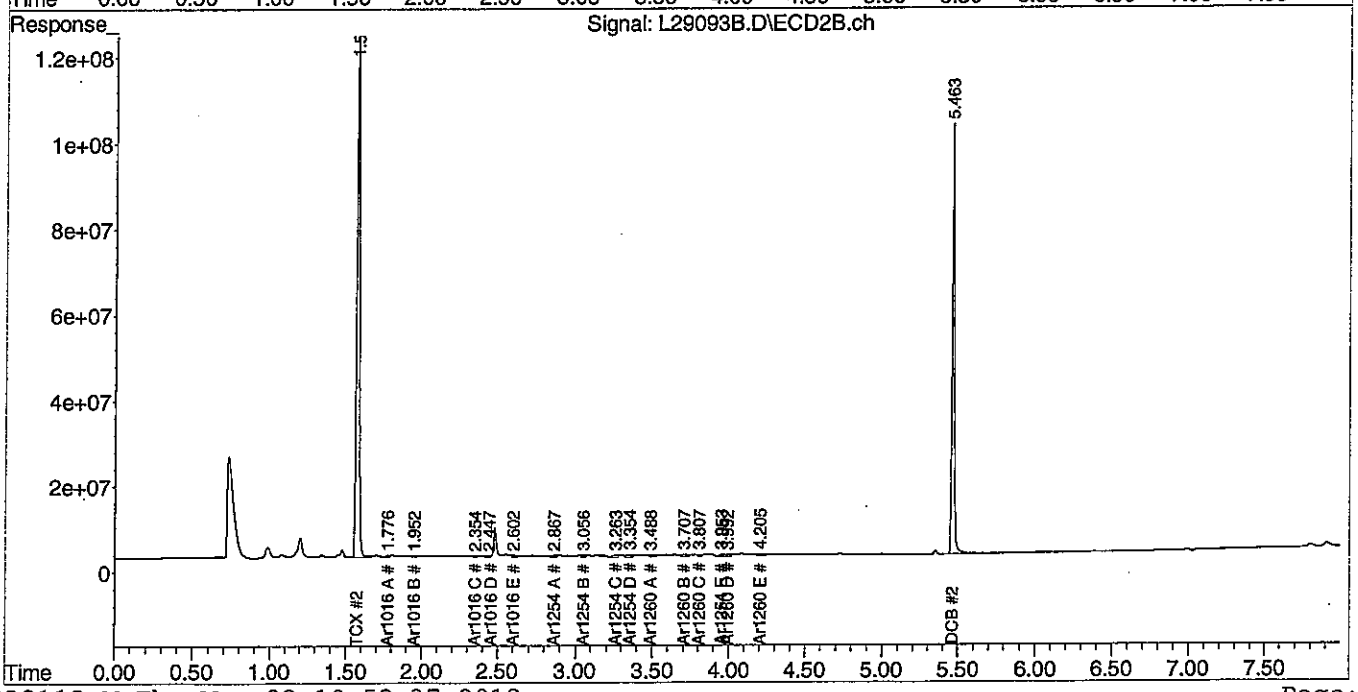
Authorized signature

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29093B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 7:51 am
Operator : AR
Sample : B032112PSOX2,,A/C
Misc : SOIL
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 22 10:52:37 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 26, 2012

SAMPLE DATA

Lab Sample ID: B032112PSOX2 RR
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 03/21/12
Analysis Date: 03/22/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	87	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

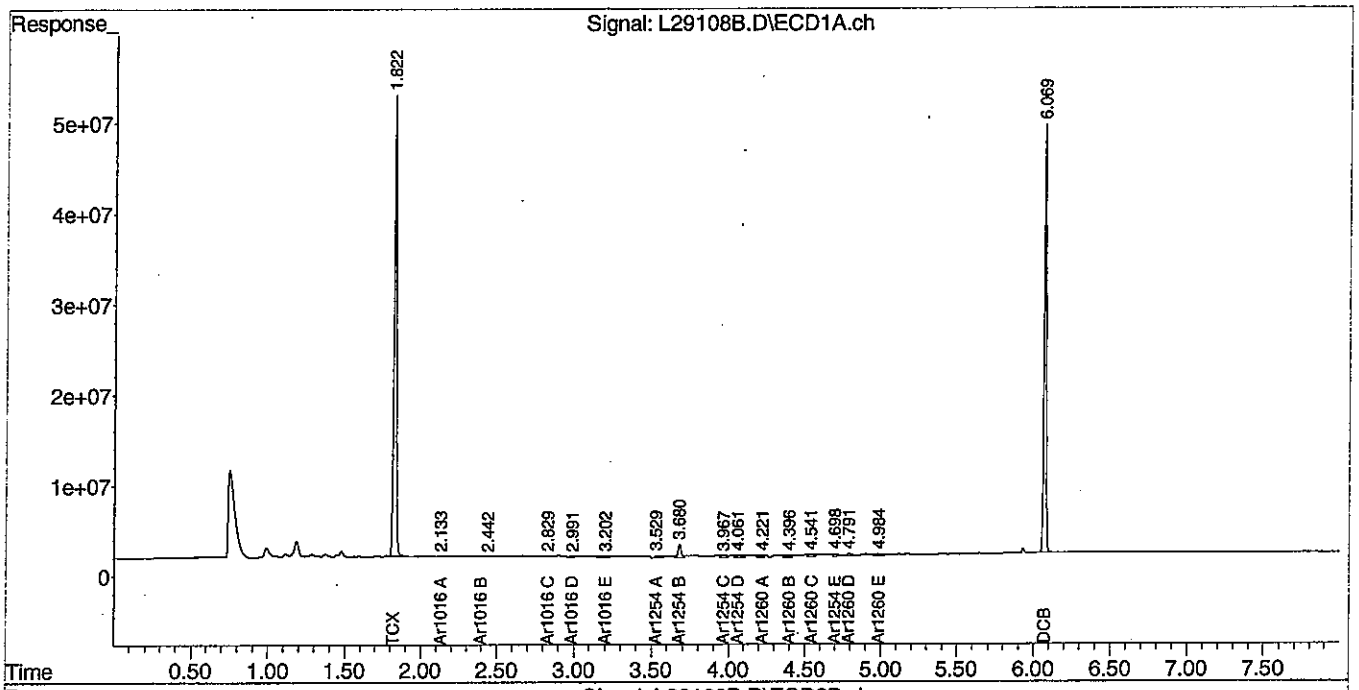
PCB Report

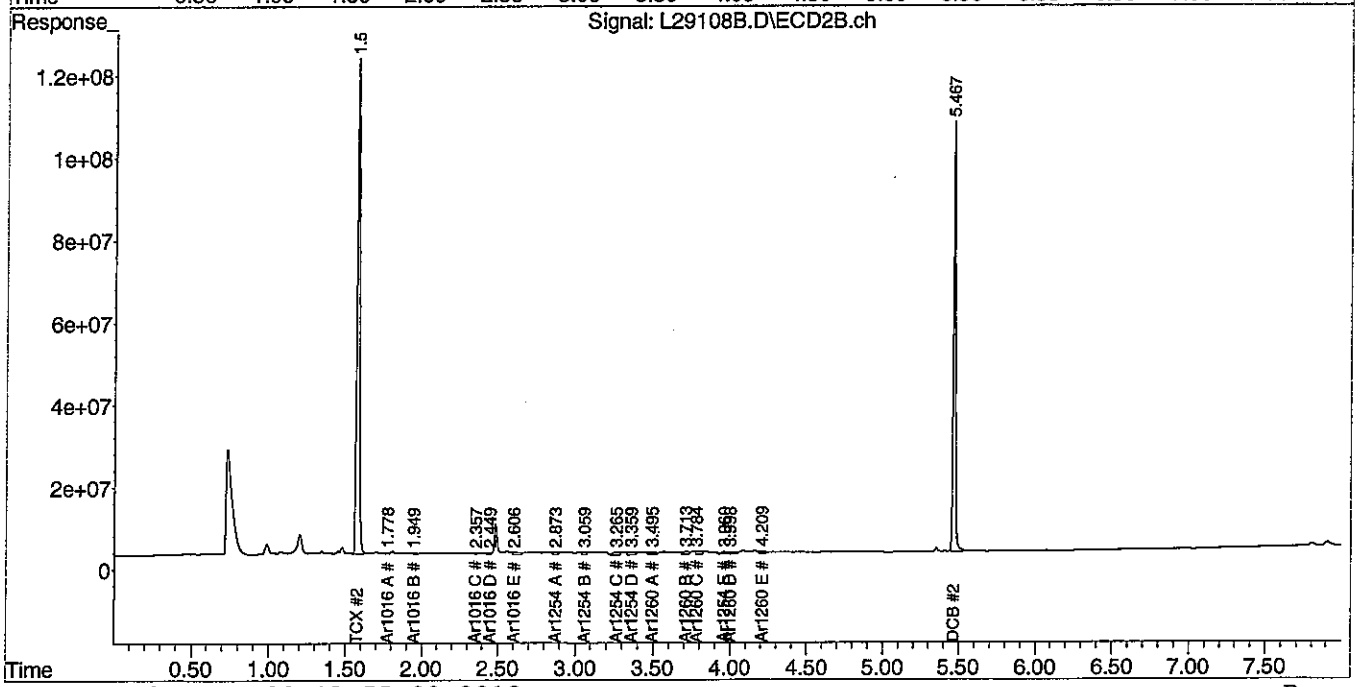
Authorized signature

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29108B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 10:48 am
Operator : JK
Sample : B032112PSOX2,,RR A/C
Misc : SOIL
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 22 13:55:01 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 23, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWG-180

Lab Sample ID: 72373-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 03/13/12
Lab Receipt Date: 03/20/12
Extraction Date: 03/20/12
Analysis Date: 03/22/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**7.8**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	87	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-1,,A/C
Data File: L29096.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	7.8	7.5	4.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

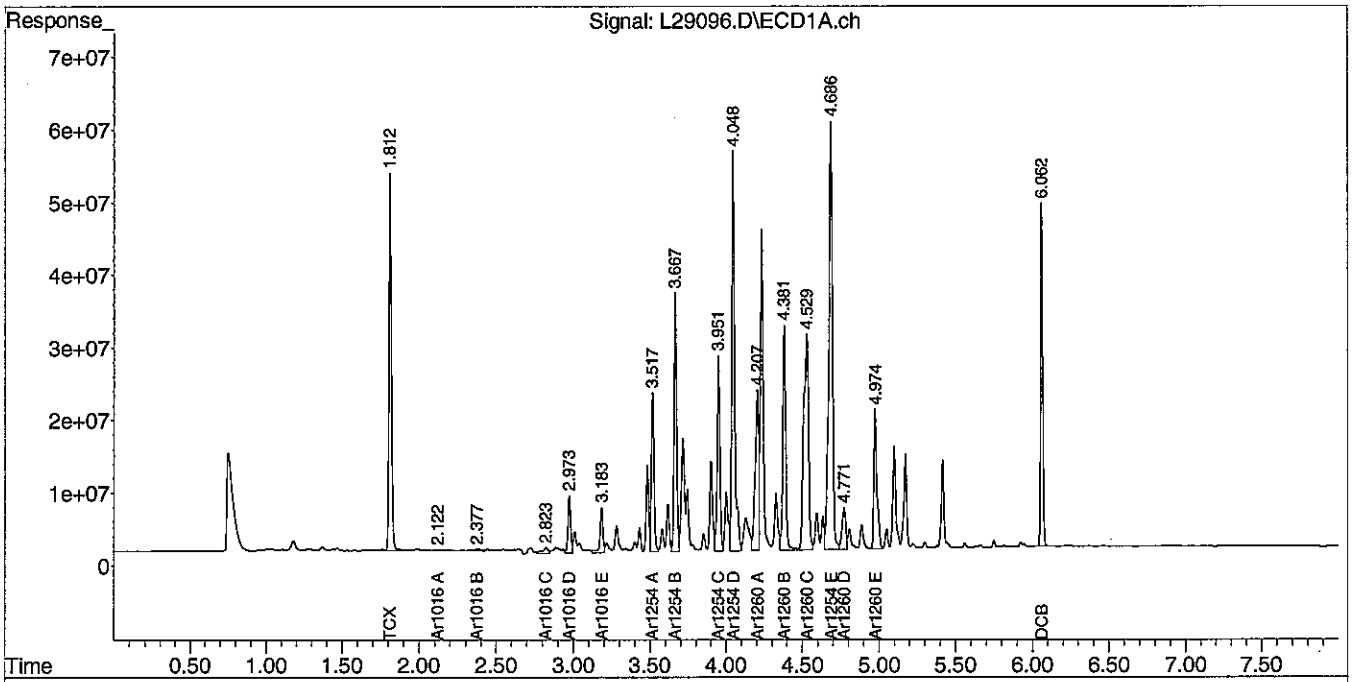
Comments: _____

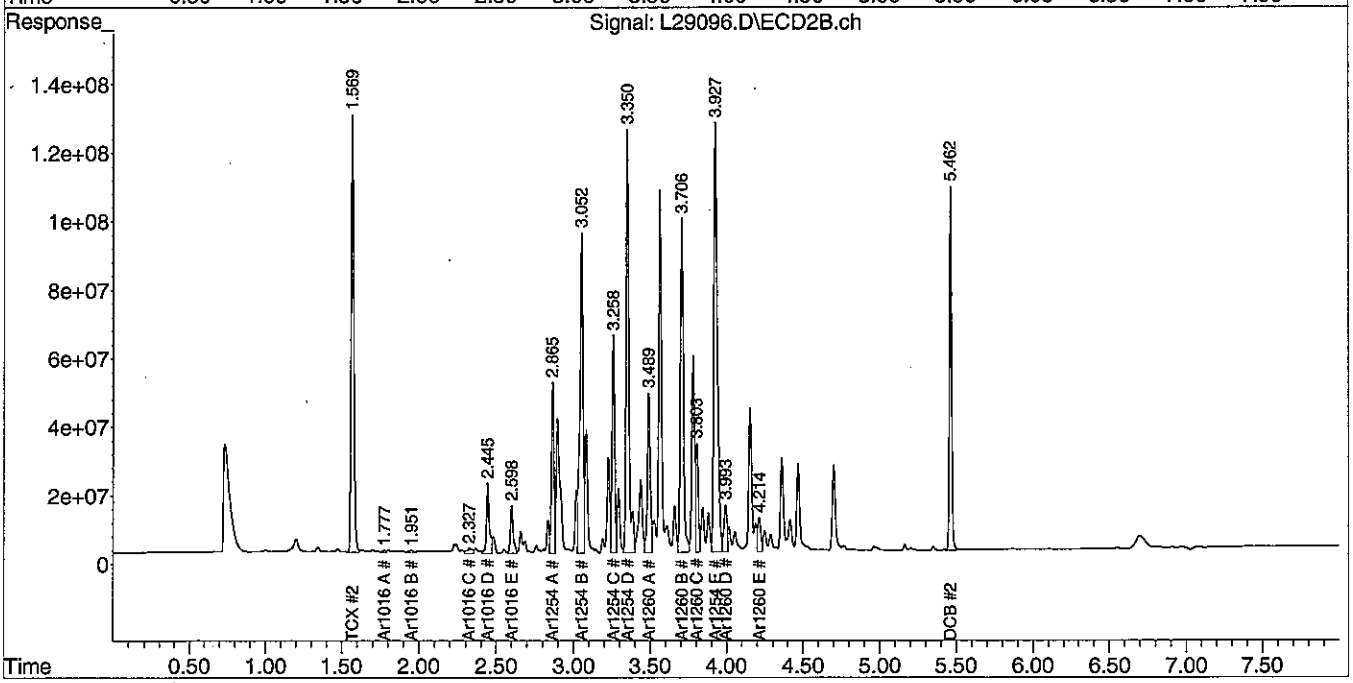
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29096.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 8:22 am
Operator : AR
Sample : 72373-1,,A/C
Misc : SOIL
ALS Vial : 26 Sample Multiplier: 1

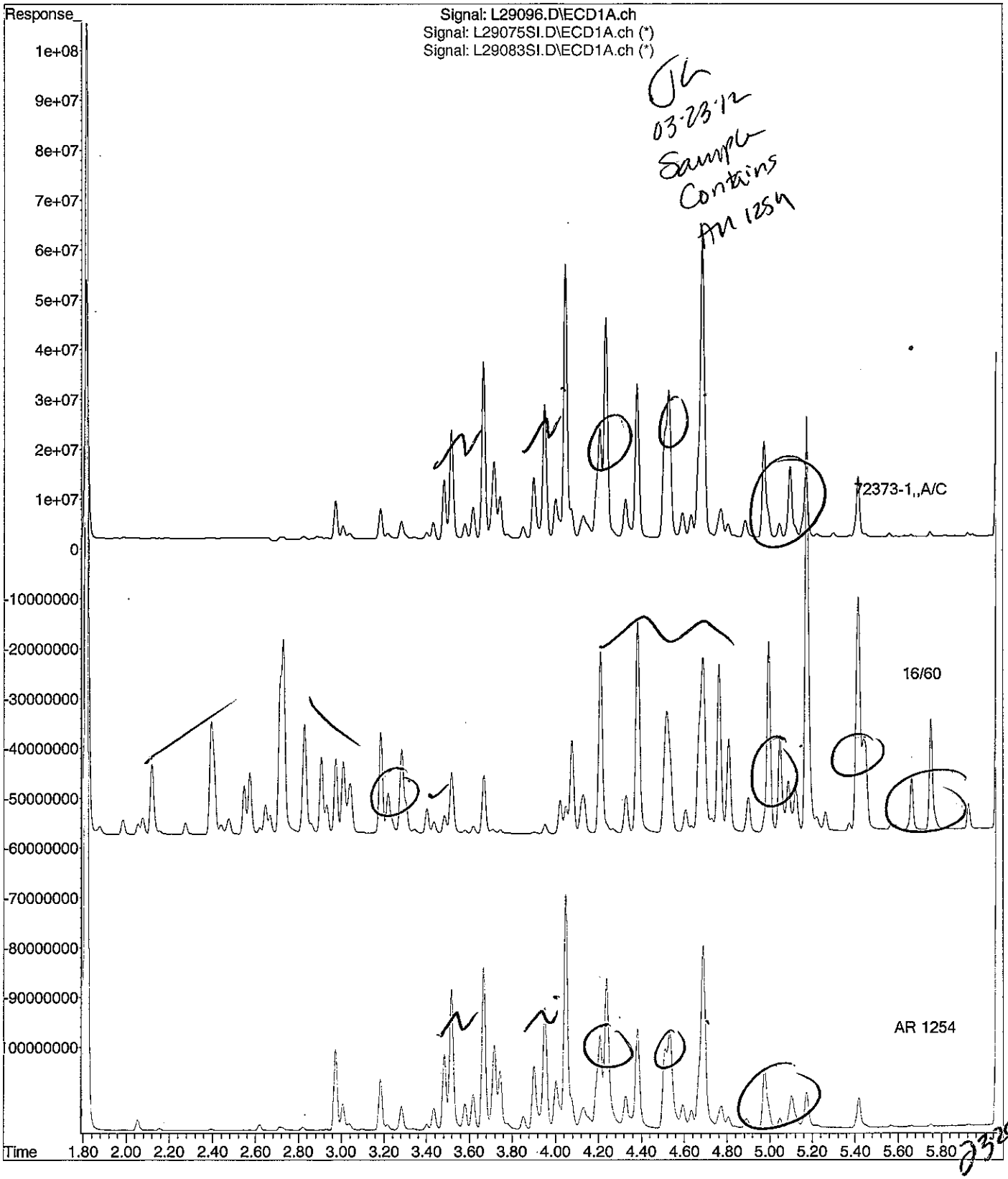
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 08:59:47 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29096.D
Operator : AR
Acquired : 22 Mar 2012 8:22 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-1,,A/C
Misc Info : SOIL
Vial Number: 26



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Portland ME 04102

March 23, 2012

SAMPLE DATA

Lab Sample ID:	72373-2
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/13/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-181

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**2.6**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	84	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-2,,A/C
Data File: L29097.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	2.6	2.5	4.4	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

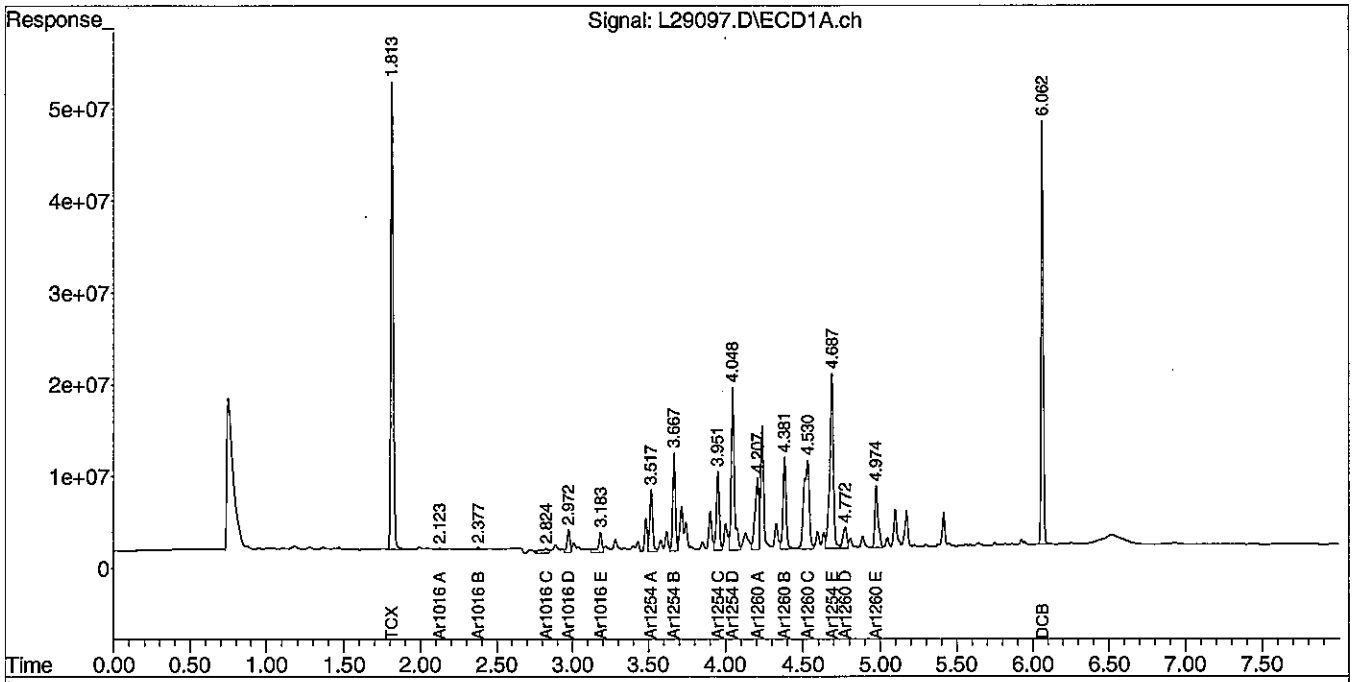
Comments: _____

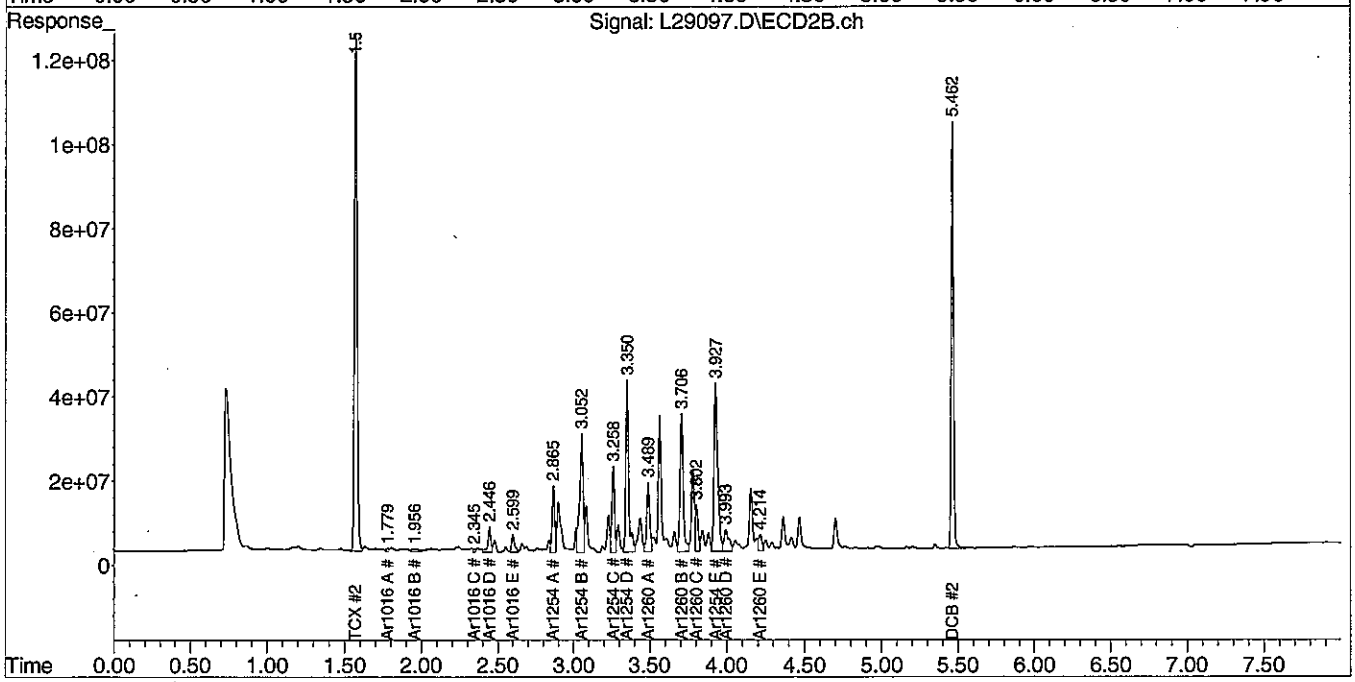
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29097.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 8:32 am
Operator : AR
Sample : 72373-2,,A/C
Misc : SOIL
ALS Vial : 27 Sample Multiplier: 1

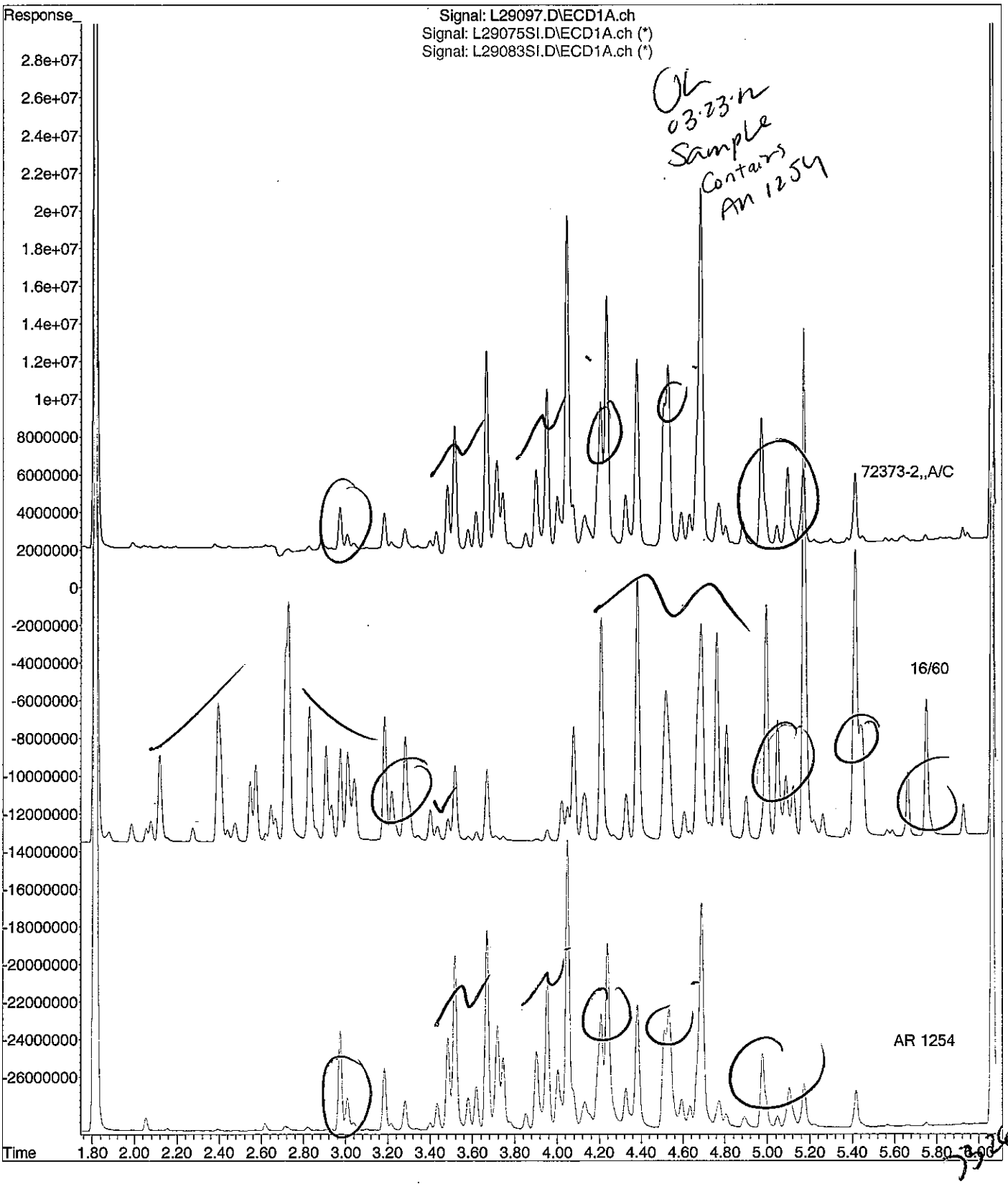
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 09:00:31 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29097.D
Operator : AR
Acquired : 22 Mar 2012 8:32 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-2,,A/C
Misc Info : SOIL
Vial Number: 27



Analytics Report 72373 page 0020 of 95

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March 23, 2012

SAMPLE DATA

Lab Sample ID:	72373-3
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/13/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-182

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	84	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

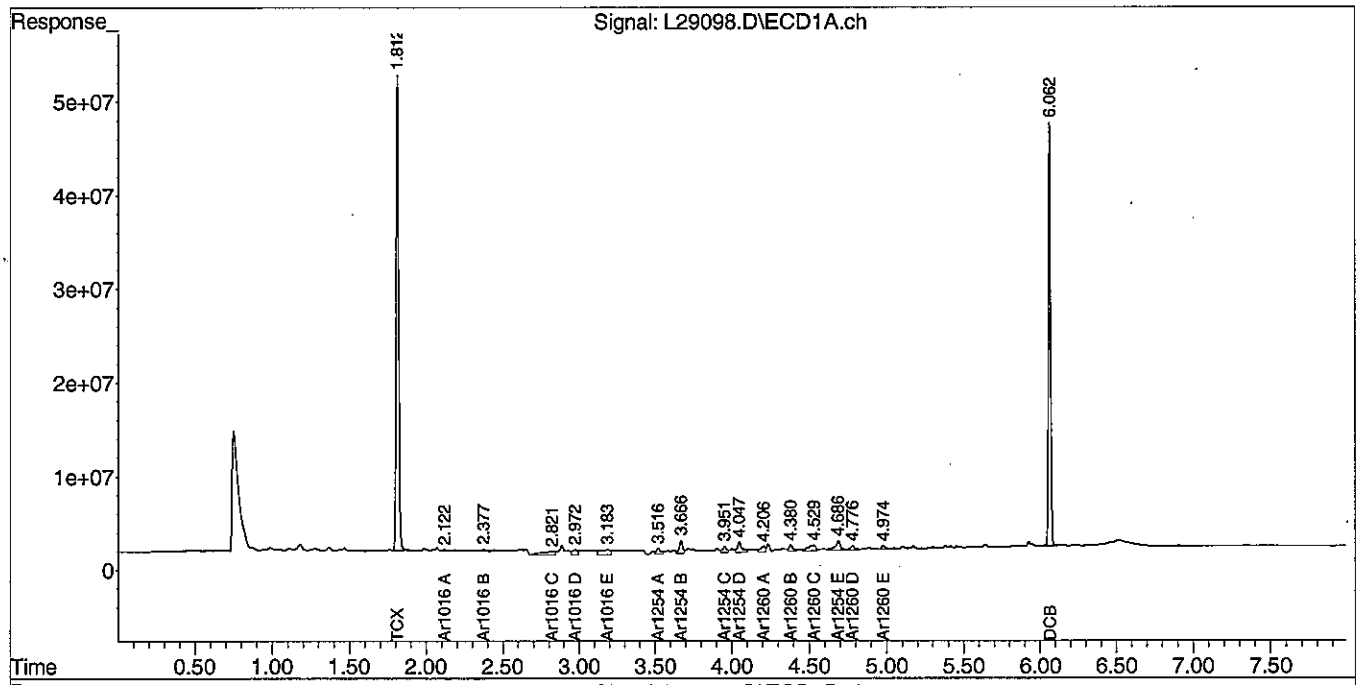
PCB Report

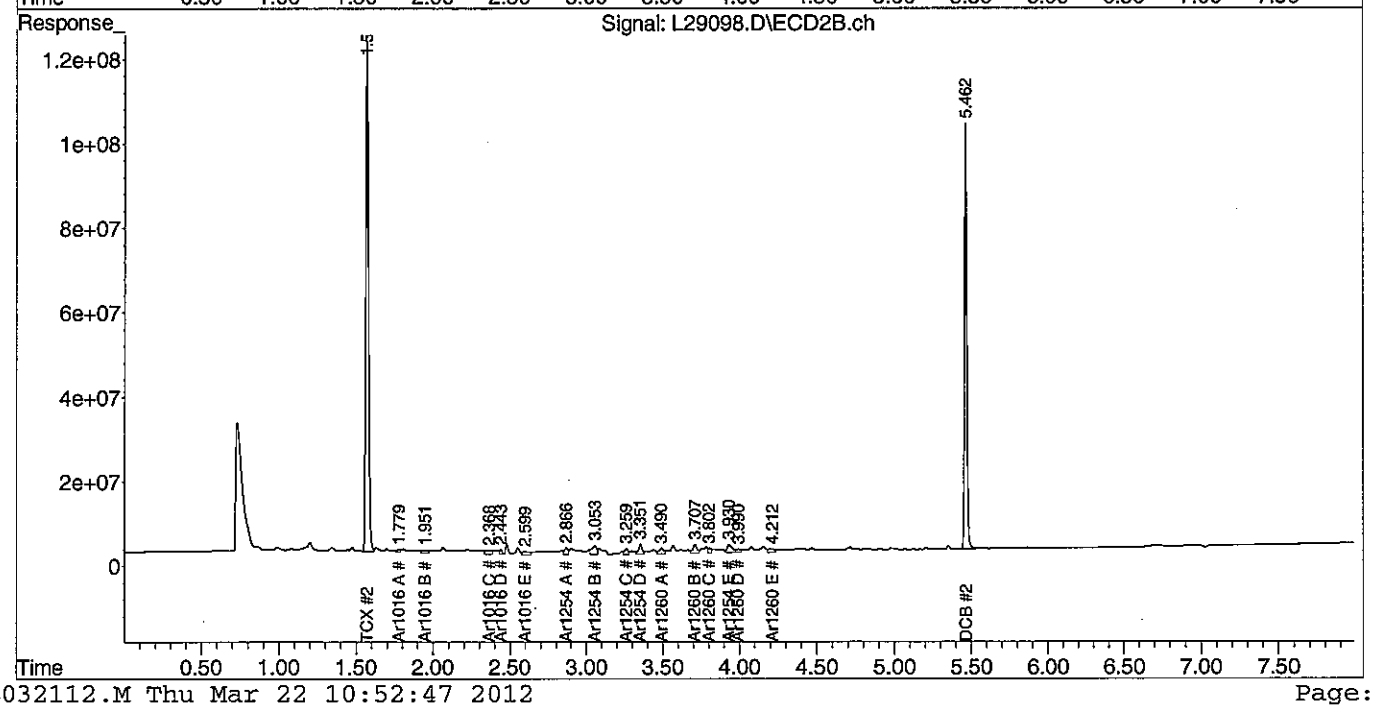
Authorized signature

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29098.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 8:42 am
Operator : AR
Sample : 72373-3,,A/C
Misc : SOIL
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 22 10:52:47 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-4
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	5.0
Collection Date:	03/13/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-183

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit μg/wipe	Results μg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**17**
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	90	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-4,1:5,,A/C
Data File: L29125.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	16.9	17.2	2.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

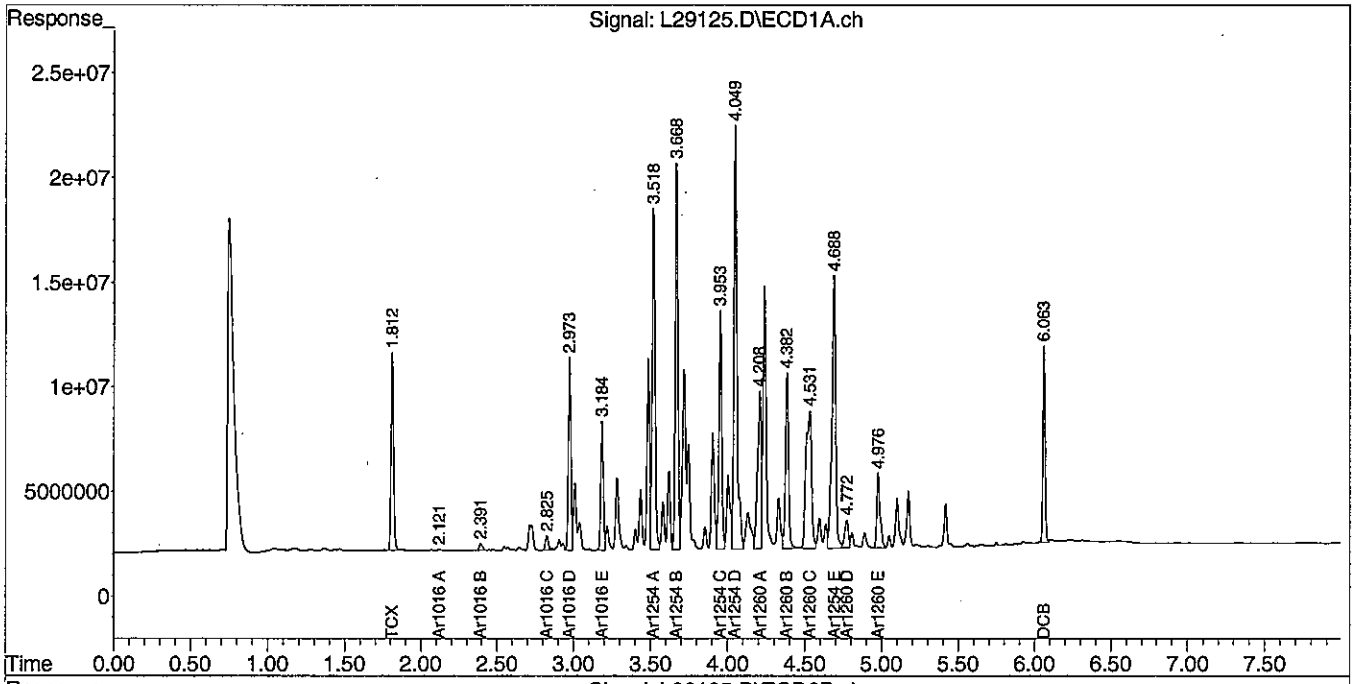
Comments: _____

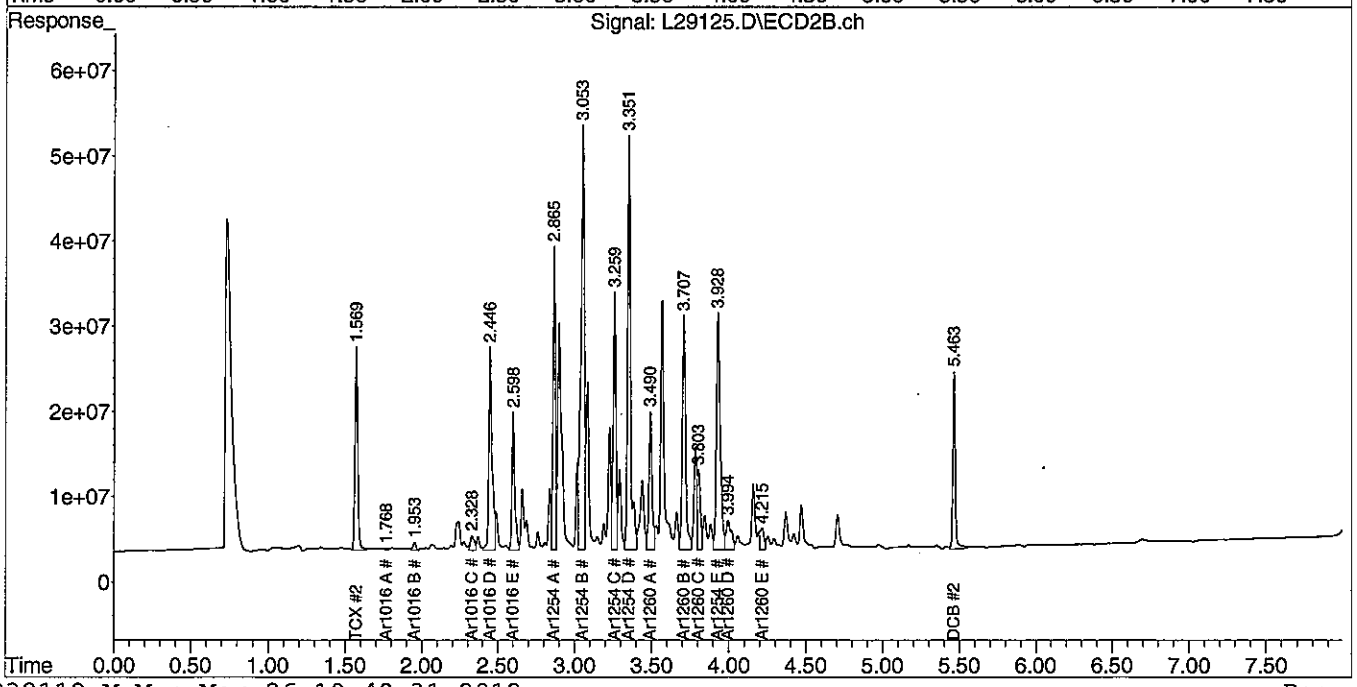
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29125.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 2:32 pm
Operator : JK
Sample : 72373-4,1:5,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

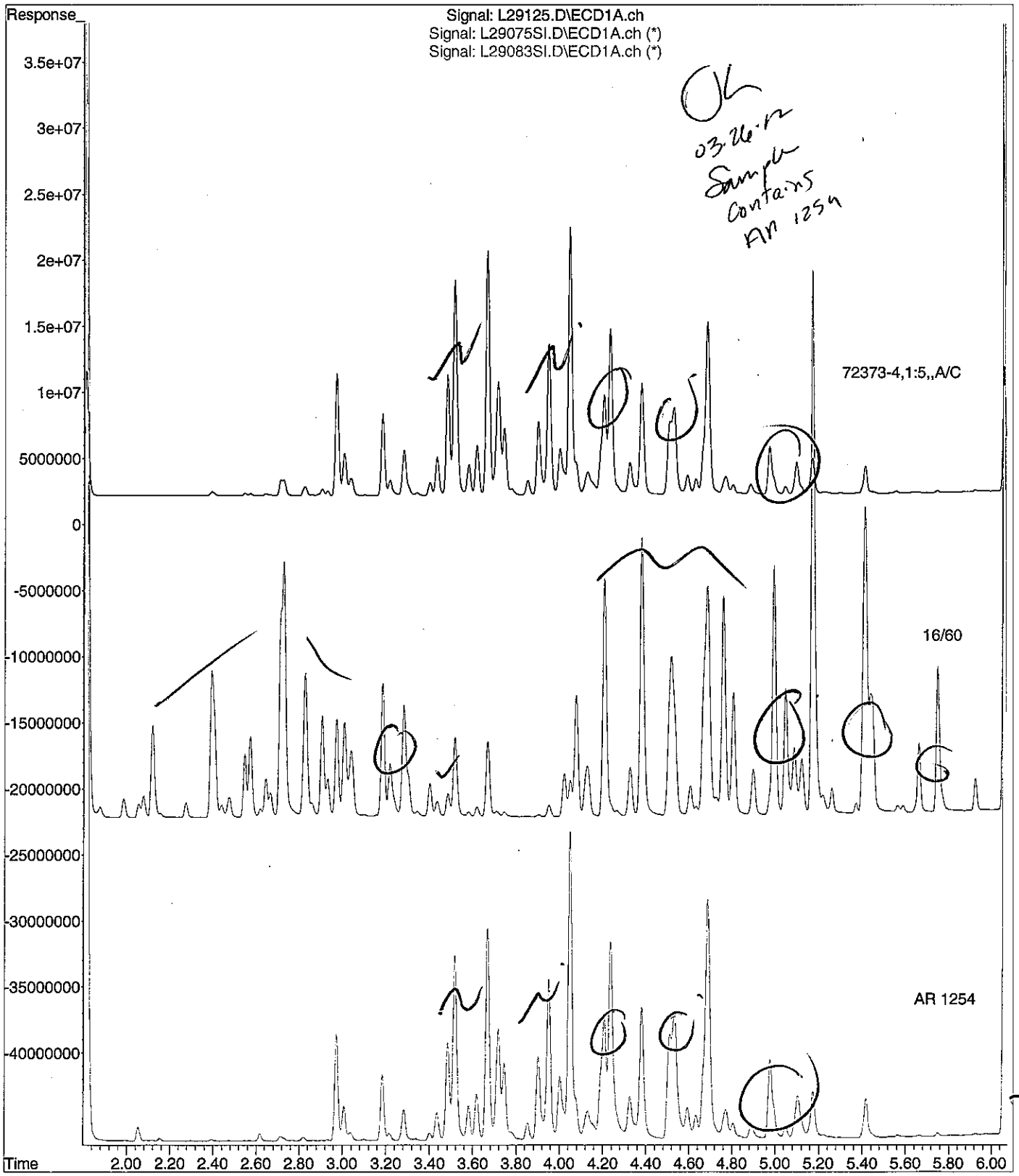
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 10:49:15 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29125.D
Operator : JK
Acquired : 22 Mar 2012 2:32 pm using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-4,1:5,,A/C
Misc Info : SOIL
Vial Number: 10



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Portland ME 04102

March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-5
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	5.0
Collection Date:	03/13/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-184

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**21**
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	91	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-5,1:5,,A/C
Data File: L29126.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	20.7	20.6	0.6	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

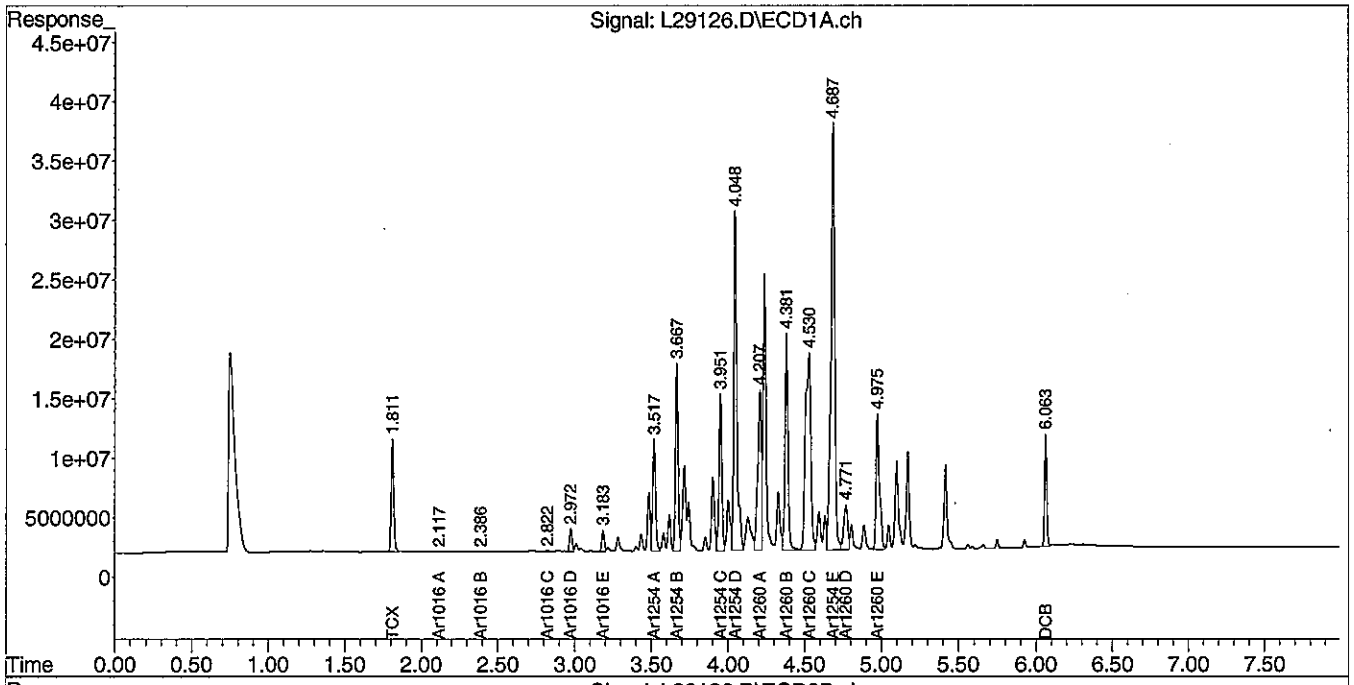
Comments: _____

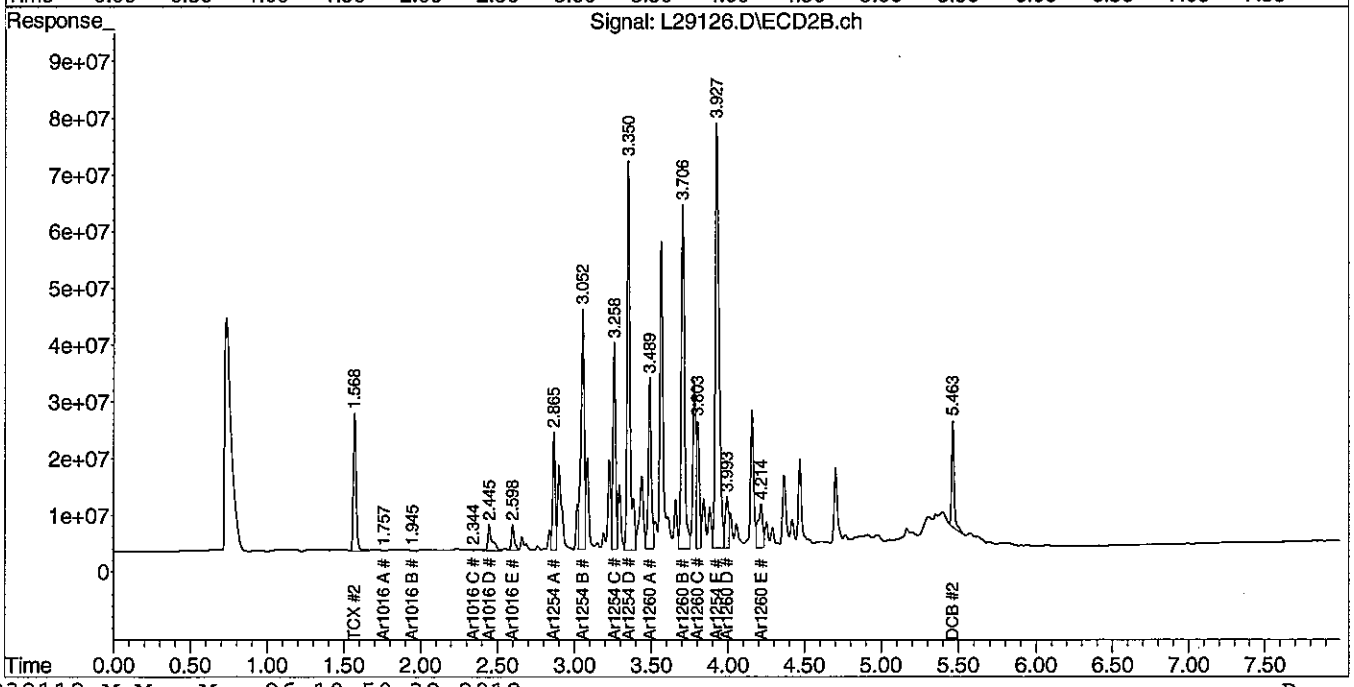
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29126.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 2:42 pm
Operator : JK
Sample : 72373-5,1:5,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

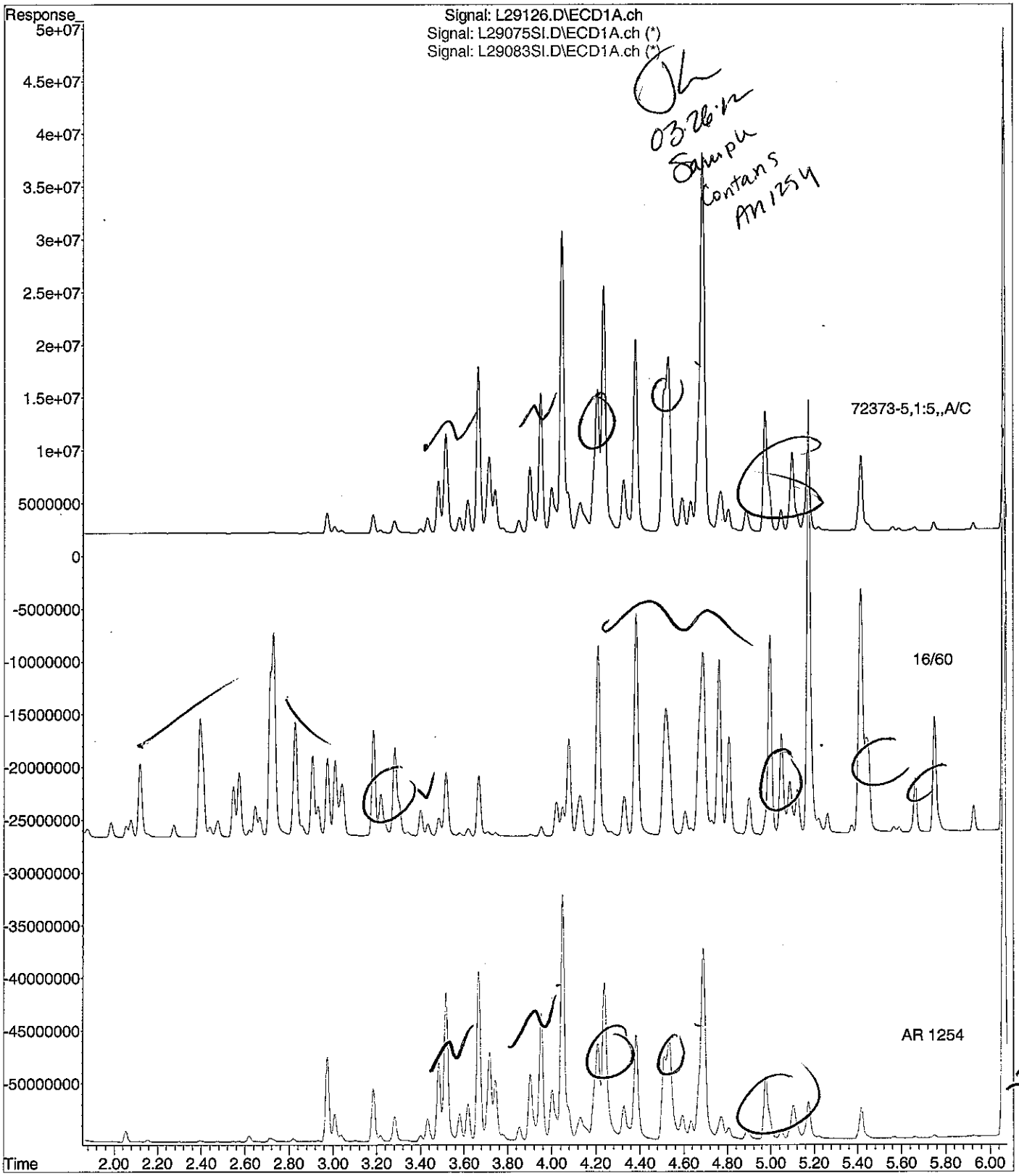
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 10:50:24 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29126.D
Operator : JK
Acquired : 22 Mar 2012 2:42 pm using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-5,1:5,,A/C
Misc Info : SOIL
Vial Number: 11



3-26-12

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March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-6
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	10
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-185

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	5	U
PCB-1221	5	U
PCB-1232	5	U
PCB-1242	5	U
PCB-1248	5	U
PCB-1254	5	**59**
PCB-1260	5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	96	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-6,1:10,,A/C
Data File: L29127.D
Dilution Factor: 10.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	58.0	59.2	2.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

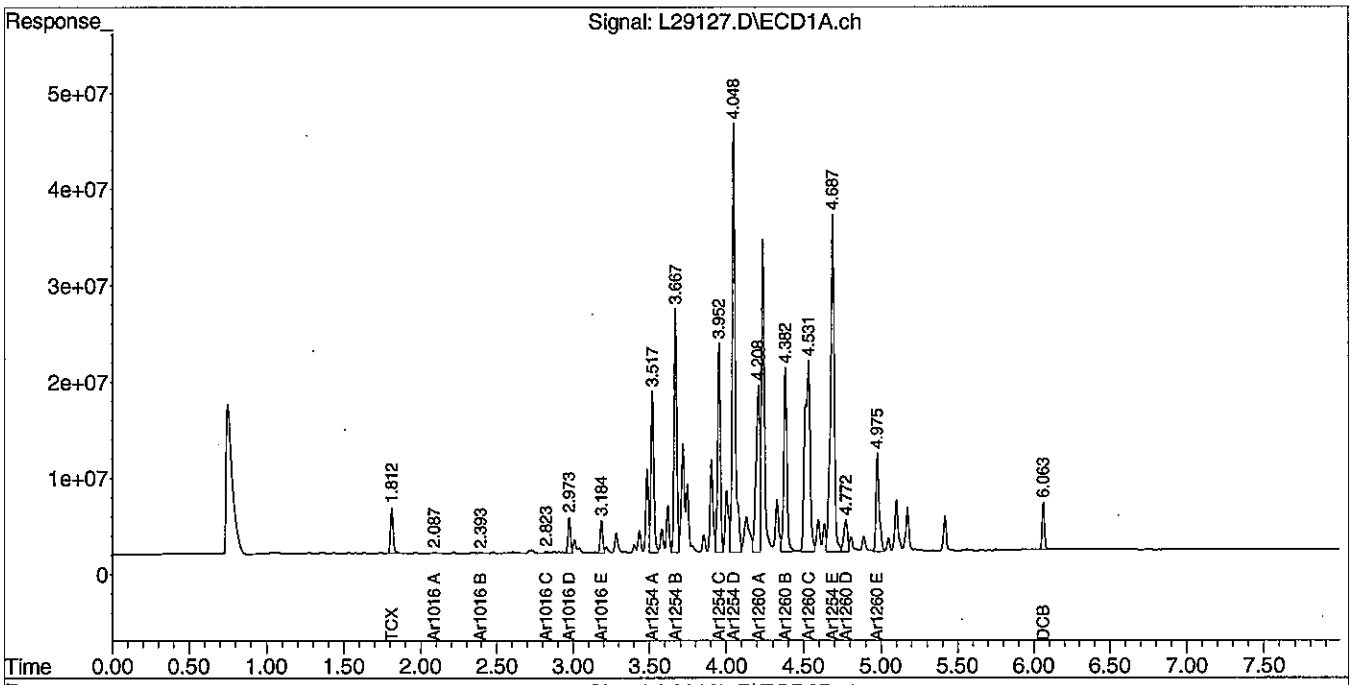
Comments: _____

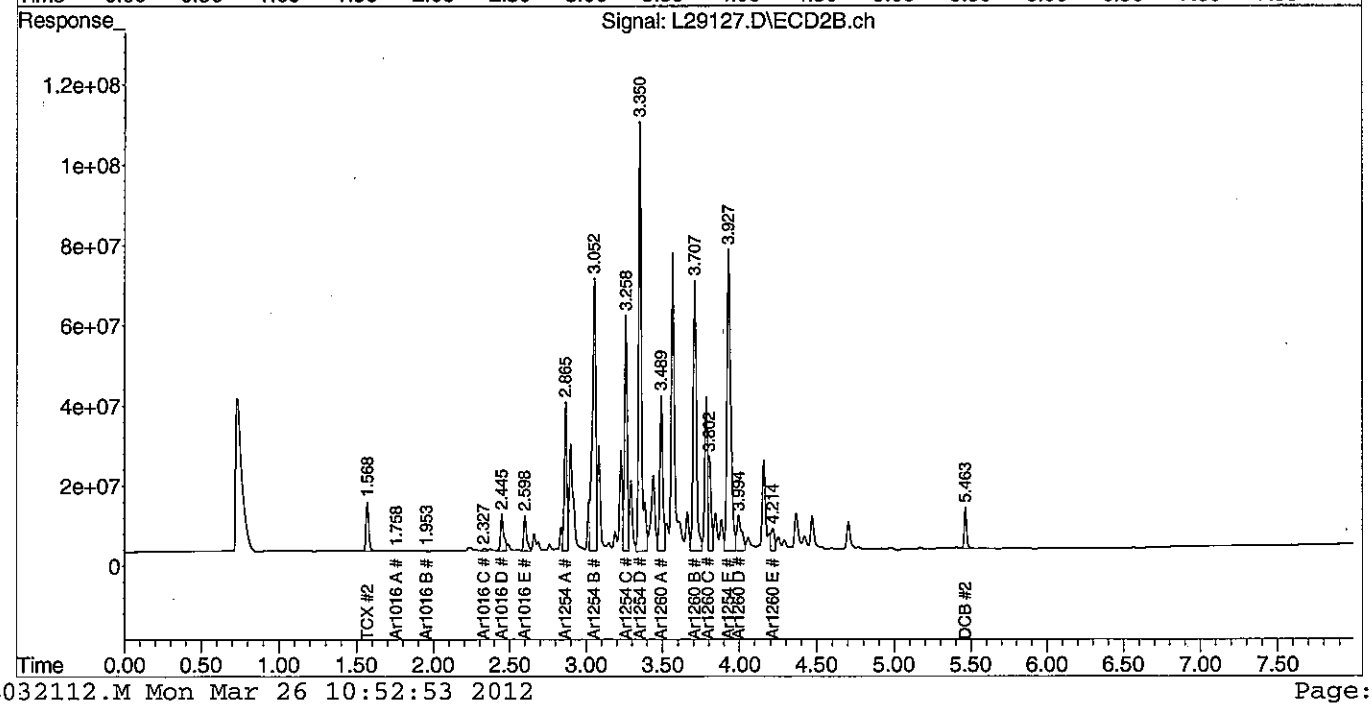
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29127.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 2:52 pm
Operator : JK
Sample : 72373-6,1:10,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

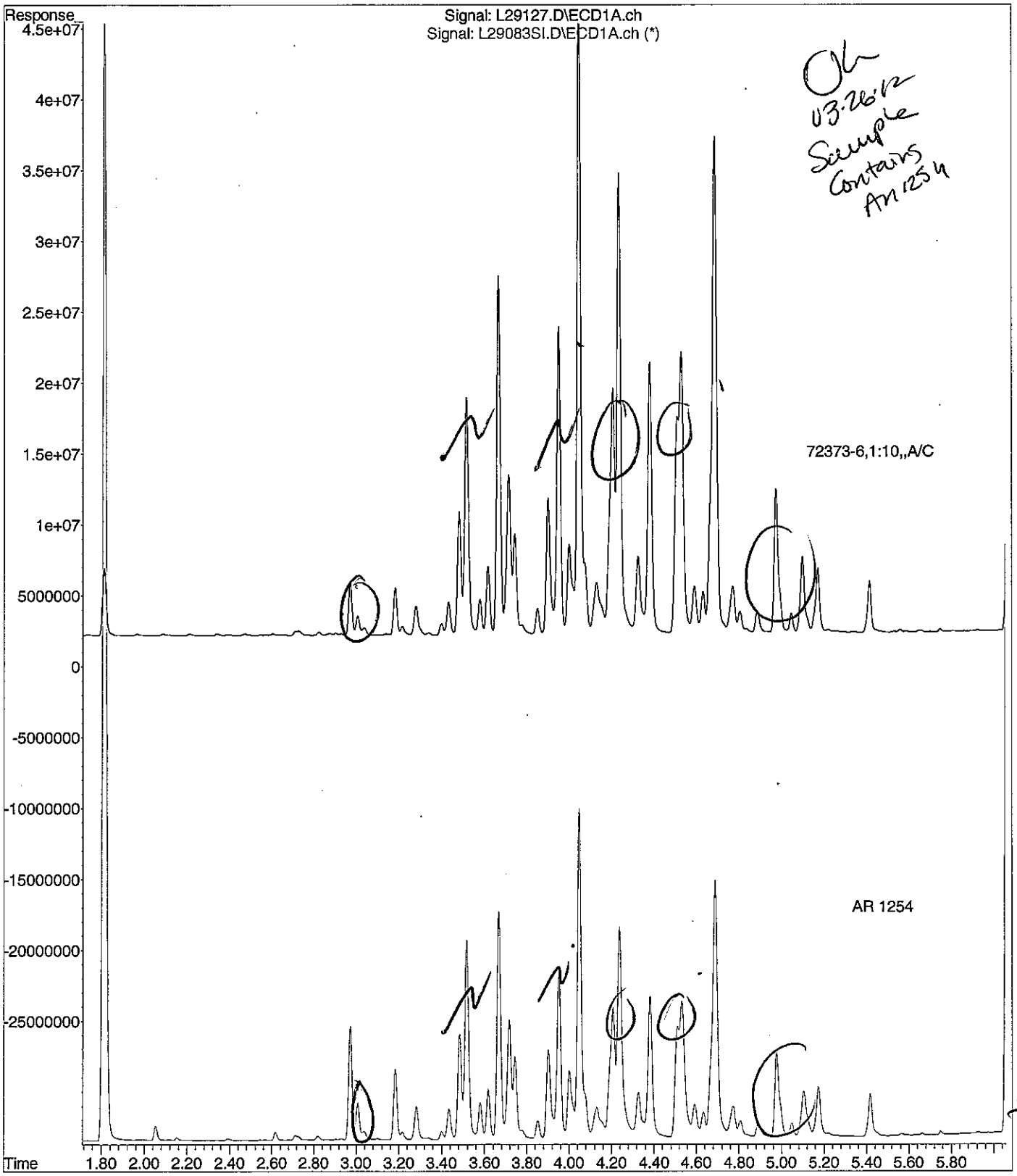
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 10:52:46 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29127.D
Operator : JK
Acquired : 22 Mar 2012 2:52 pm using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-6,1:10,,A/C
Misc Info : SOIL
Vial Number: 12



OK 03.26.12 Sample Contains AR1254

03.26.12

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March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-7
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	2.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-186

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	1	U
PCB-1221	1	U
PCB-1232	1	U
PCB-1242	1	U
PCB-1248	1	U
PCB-1254	1	14
PCB-1260	1	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	88	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-7,1:2,,A/C
Data File: L29128.D
Dilution Factor: 2.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	14.1	14.3	1.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

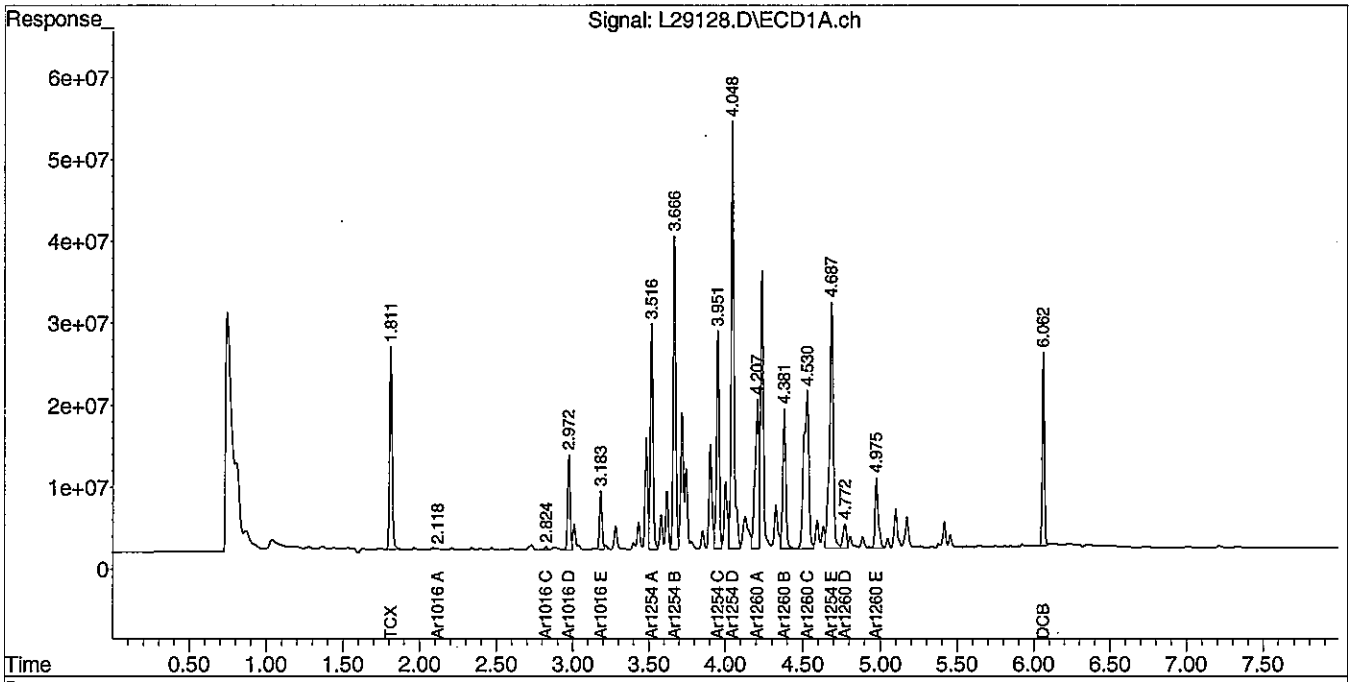
Comments: _____

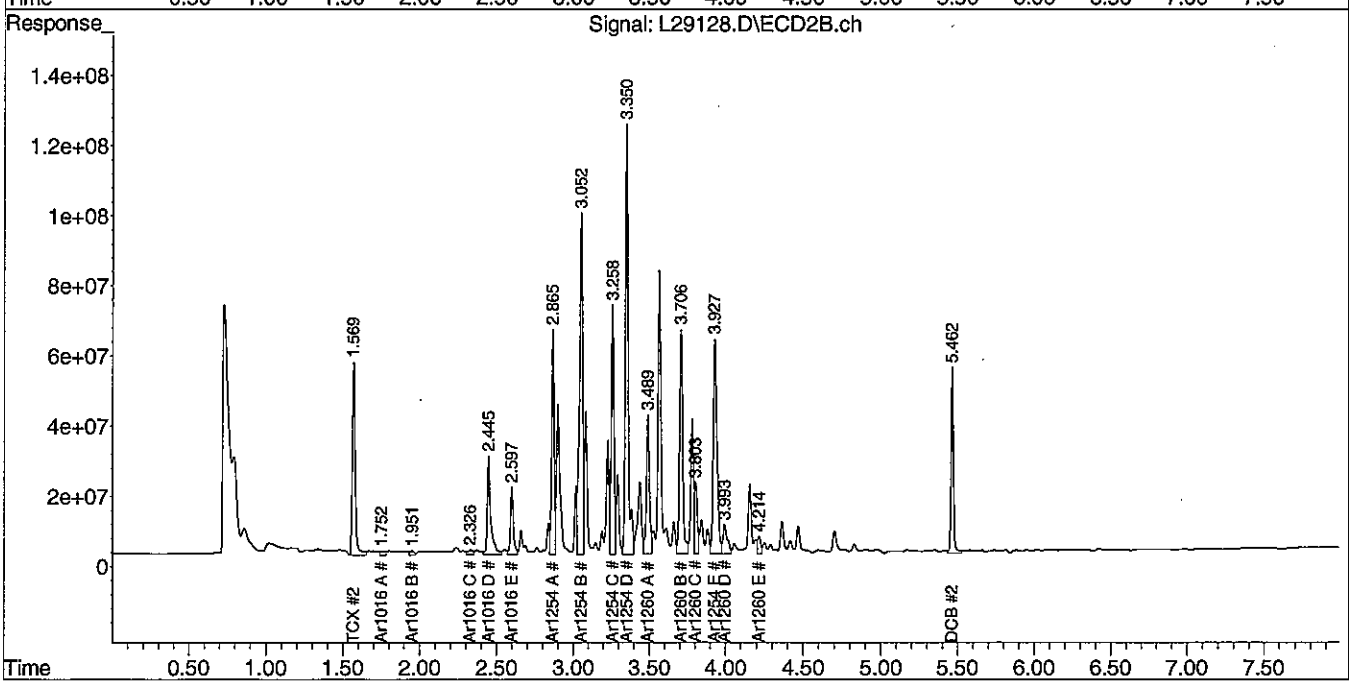
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29128.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 3:03 pm
Operator : JK
Sample : 72373-7,1:2,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

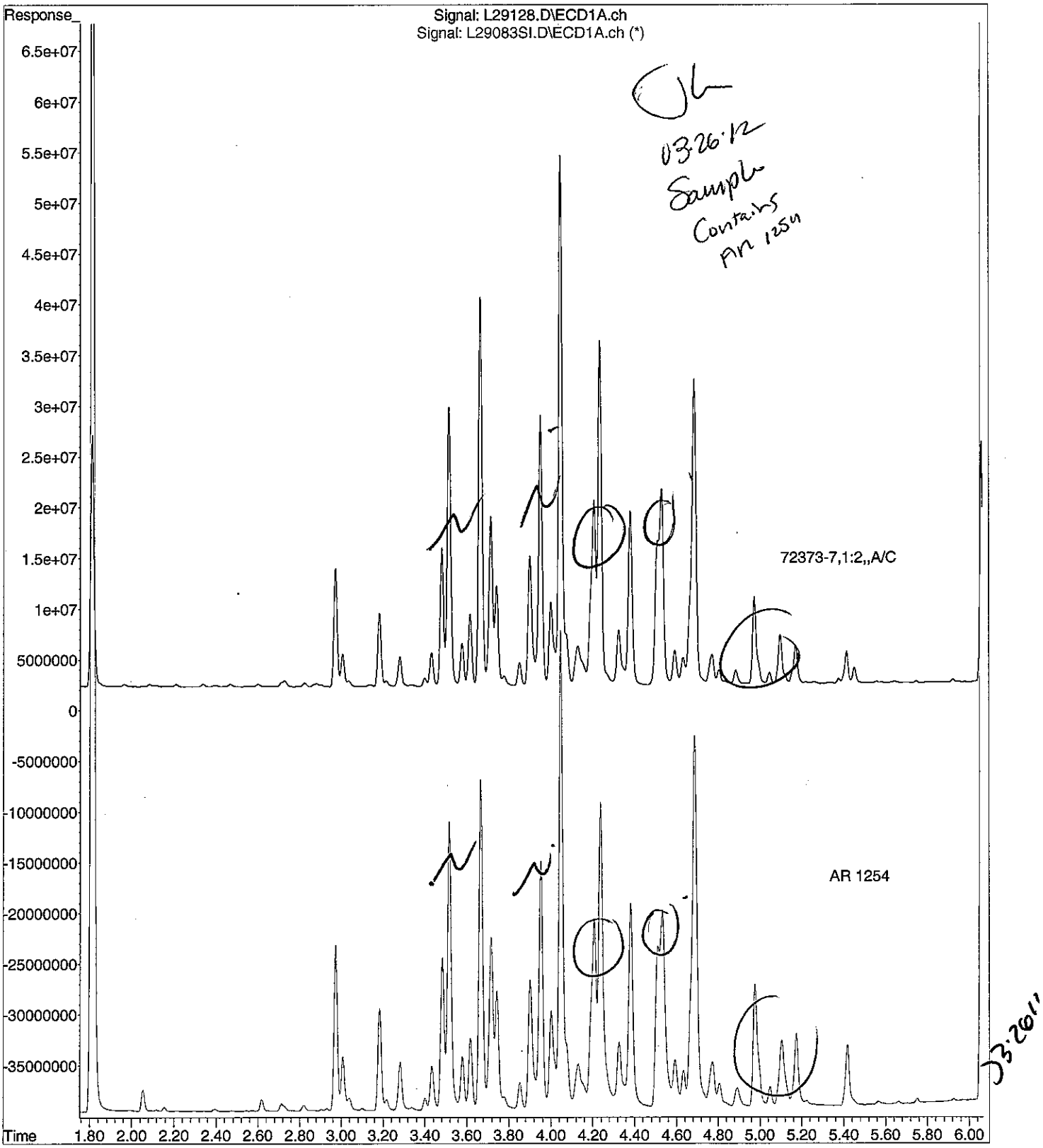
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 10:53:31 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29128.D
Operator : JK
Acquired : 22 Mar 2012 3:03 pm using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-7,1:2,,A/C
Misc Info : SOIL
Vial Number: 13



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Portland ME 04102

March 23, 2012

SAMPLE DATA

Lab Sample ID:	72373-8
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-187

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.8**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72373-8,,A/C
Data File: L29103.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.8	1.7	0.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

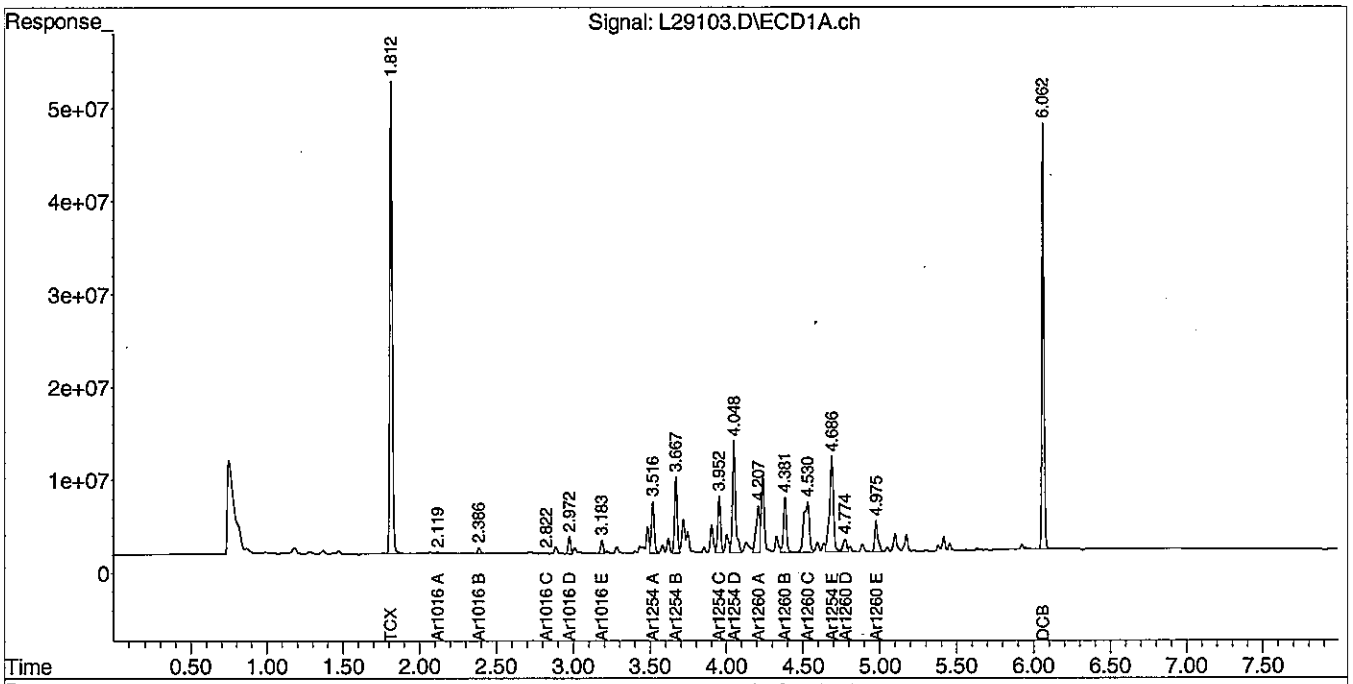
Comments: _____

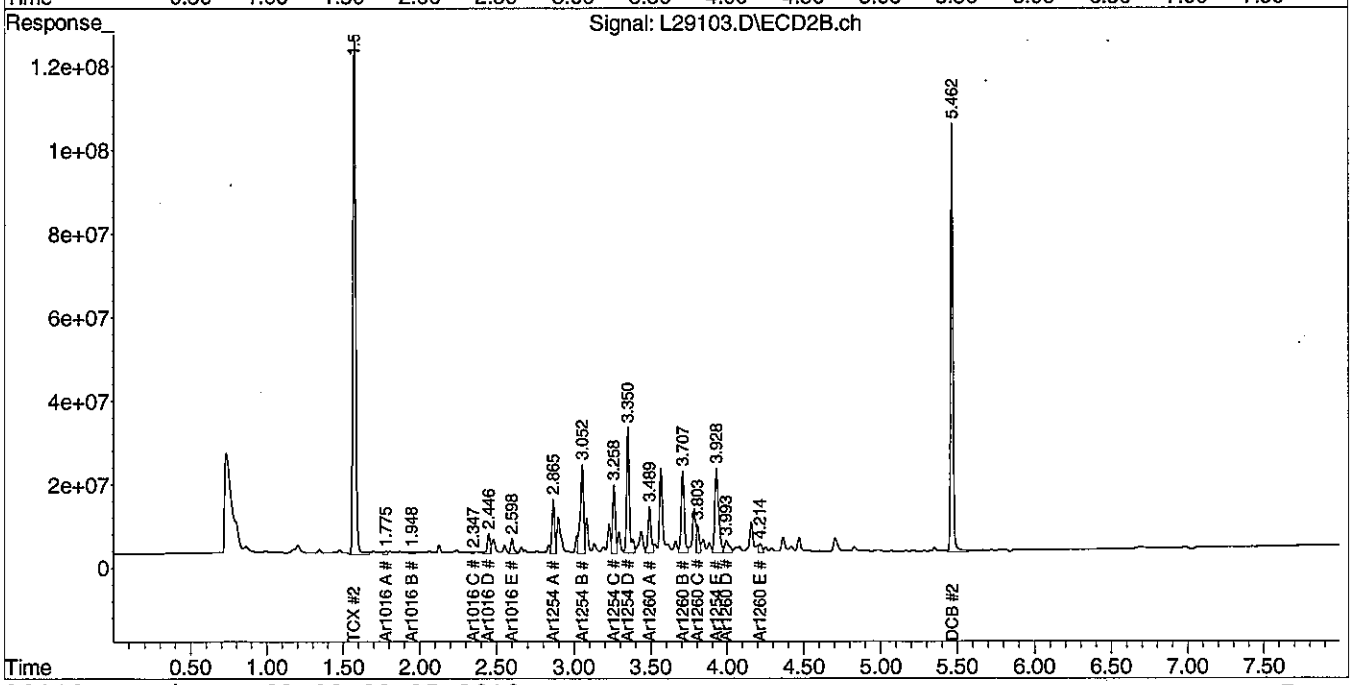
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29103.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 9:34 am
Operator : AR
Sample : 72373-8,,A/C
Misc : SOIL
ALS Vial : 33 Sample Multiplier: 1

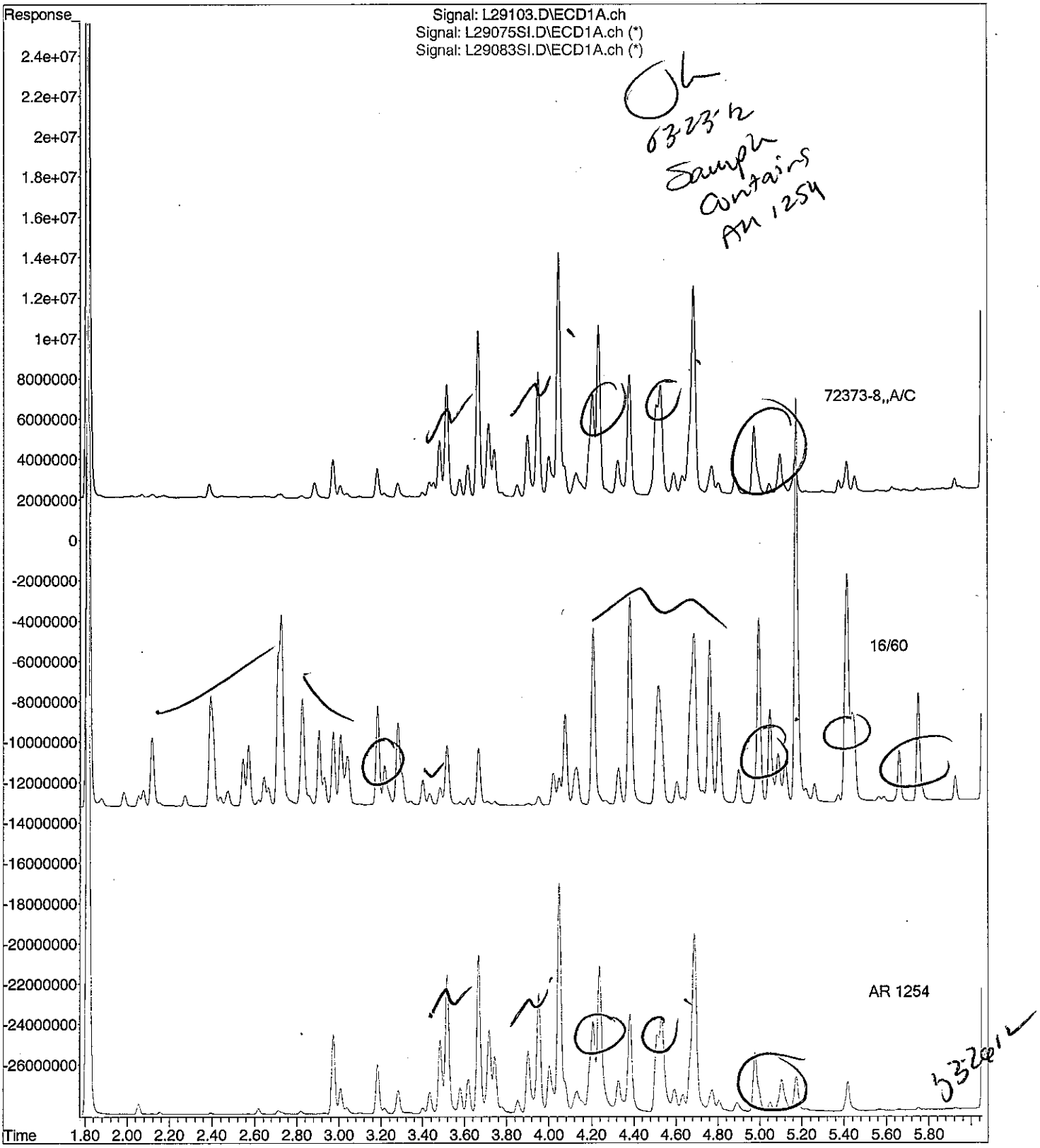
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 09:02:14 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29103.D
Operator : AR
Acquired : 22 Mar 2012 9:34 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-8,,A/C
Misc Info : SOIL
Vial Number: 33



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March 23, 2012

SAMPLE DATA

Lab Sample ID:	72373-9
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-188

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**9.3**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	86	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-9,,A/C
Data File: L29104.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	9.3	9.3	0.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

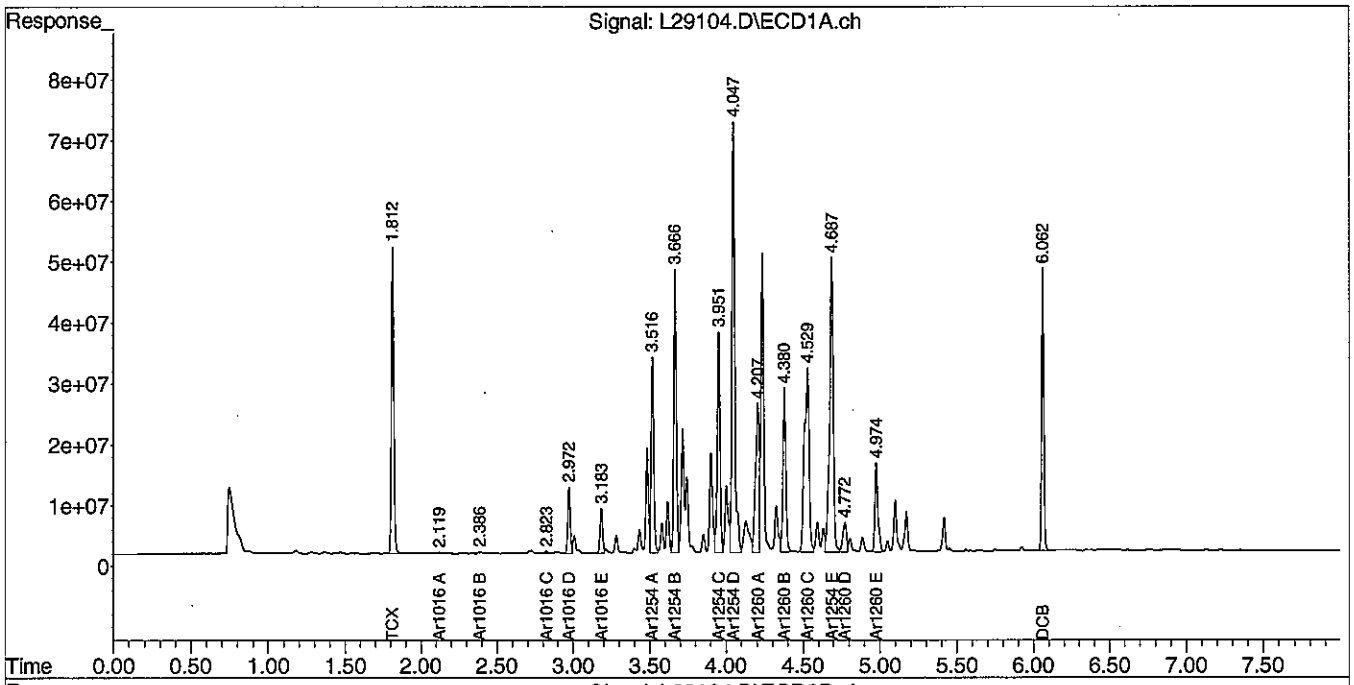
Comments: _____

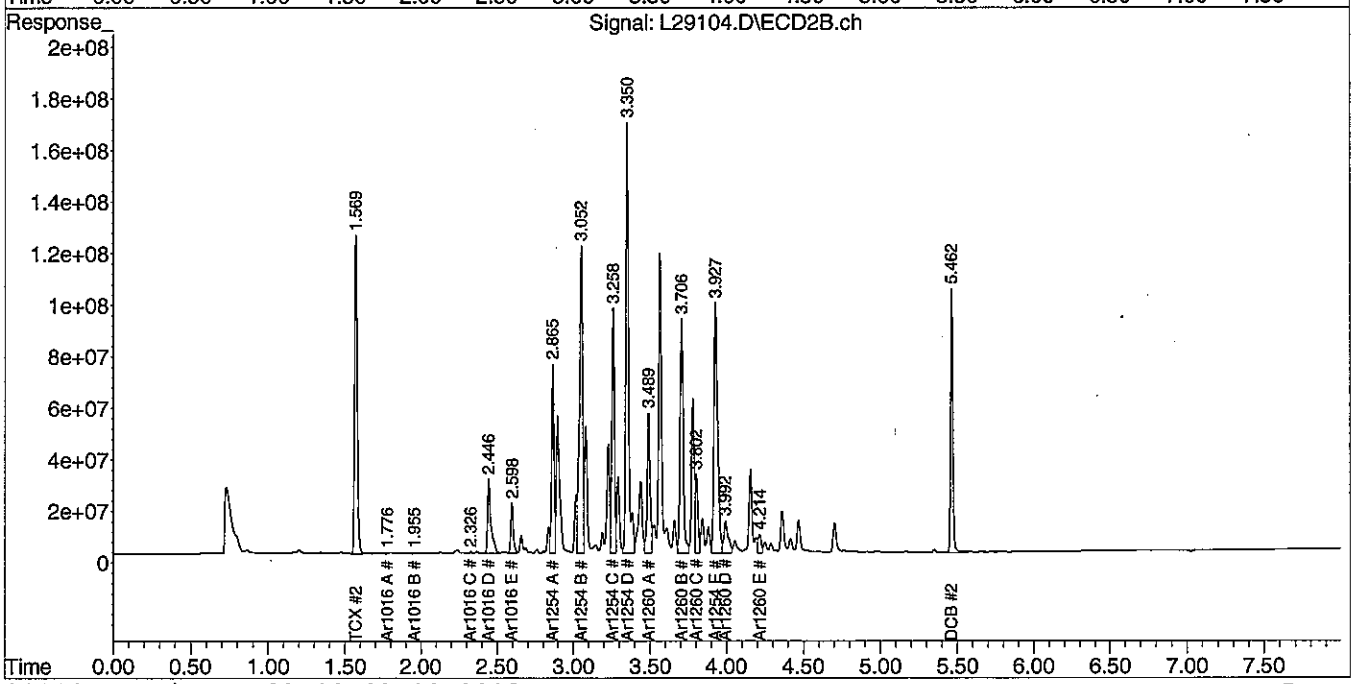
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29104.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 9:44 am
Operator : AR
Sample : 72373-9,,A/C
Misc : SOIL
ALS Vial : 34 Sample Multiplier: 1

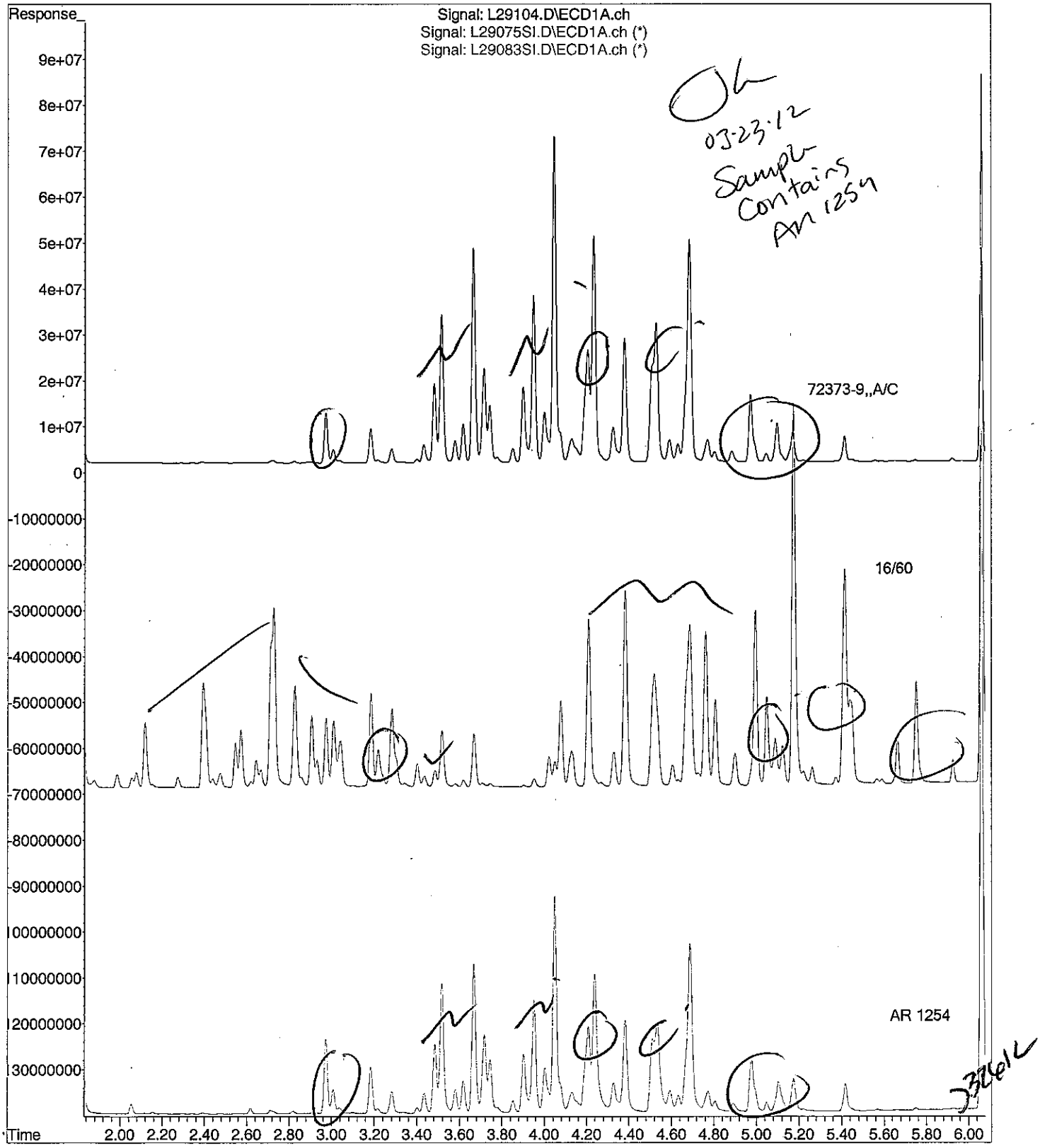
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 09:02:40 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29104.D
Operator : AR
Acquired : 22 Mar 2012 9:44 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-9,,A/C
Misc Info : SOIL
Vial Number: 34



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March 23, 2012

SAMPLE DATA

Lab Sample ID:	72373-10
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-189

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.7**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	83	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-10,,A/C
Data File: L29105.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.7	1.6	11.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

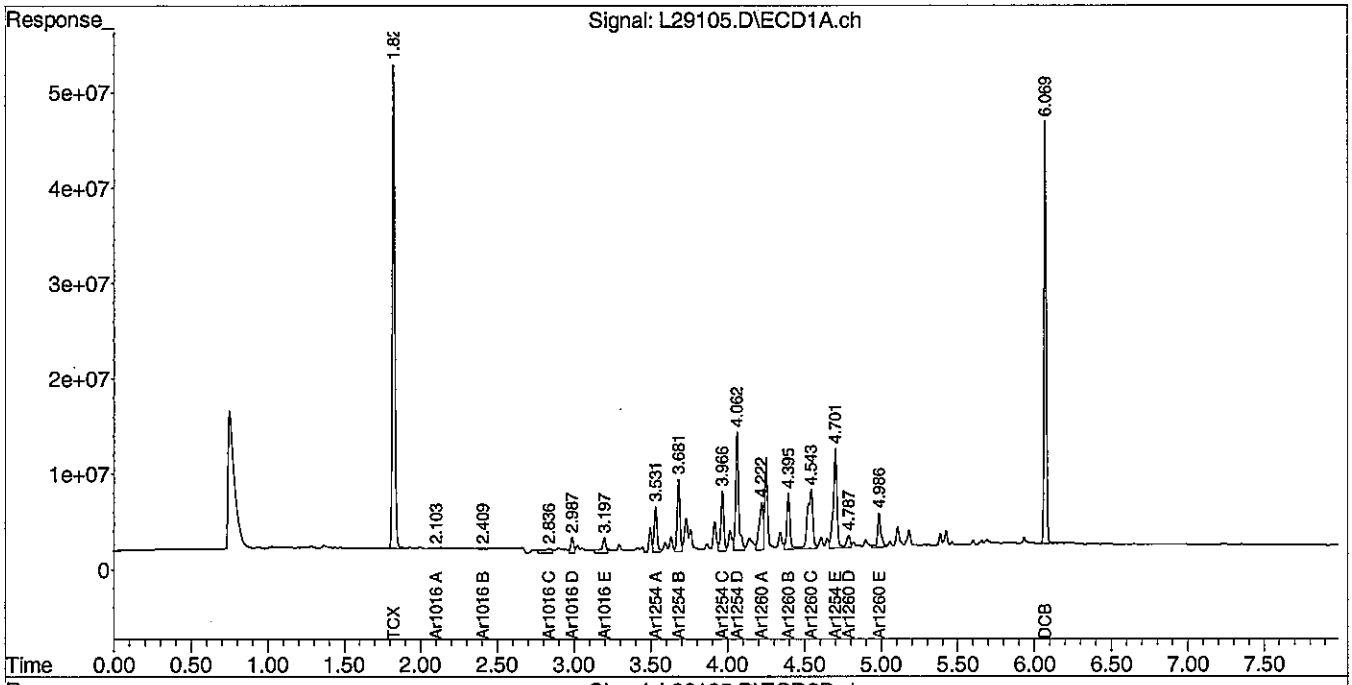
Comments: _____

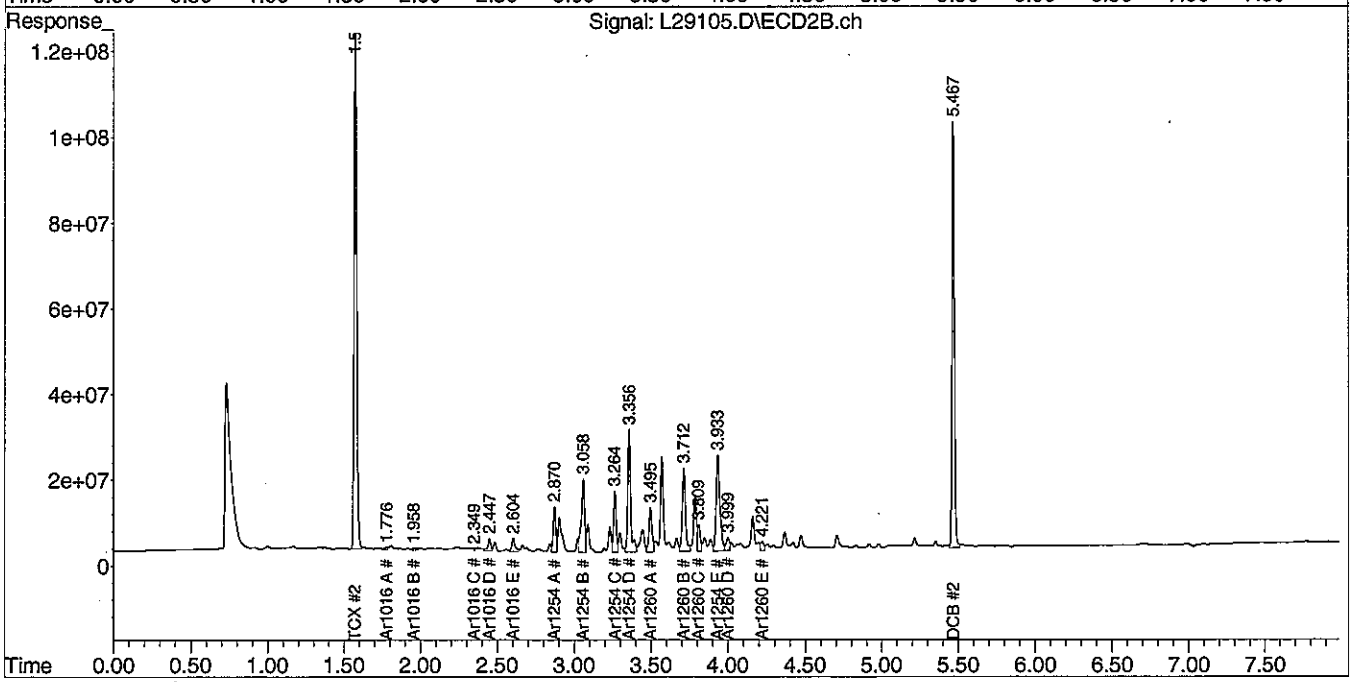
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29105.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 10:08 am
Operator : JK
Sample : 72373-10,,A/C
Misc : SOIL
ALS Vial : 35 Sample Multiplier: 1

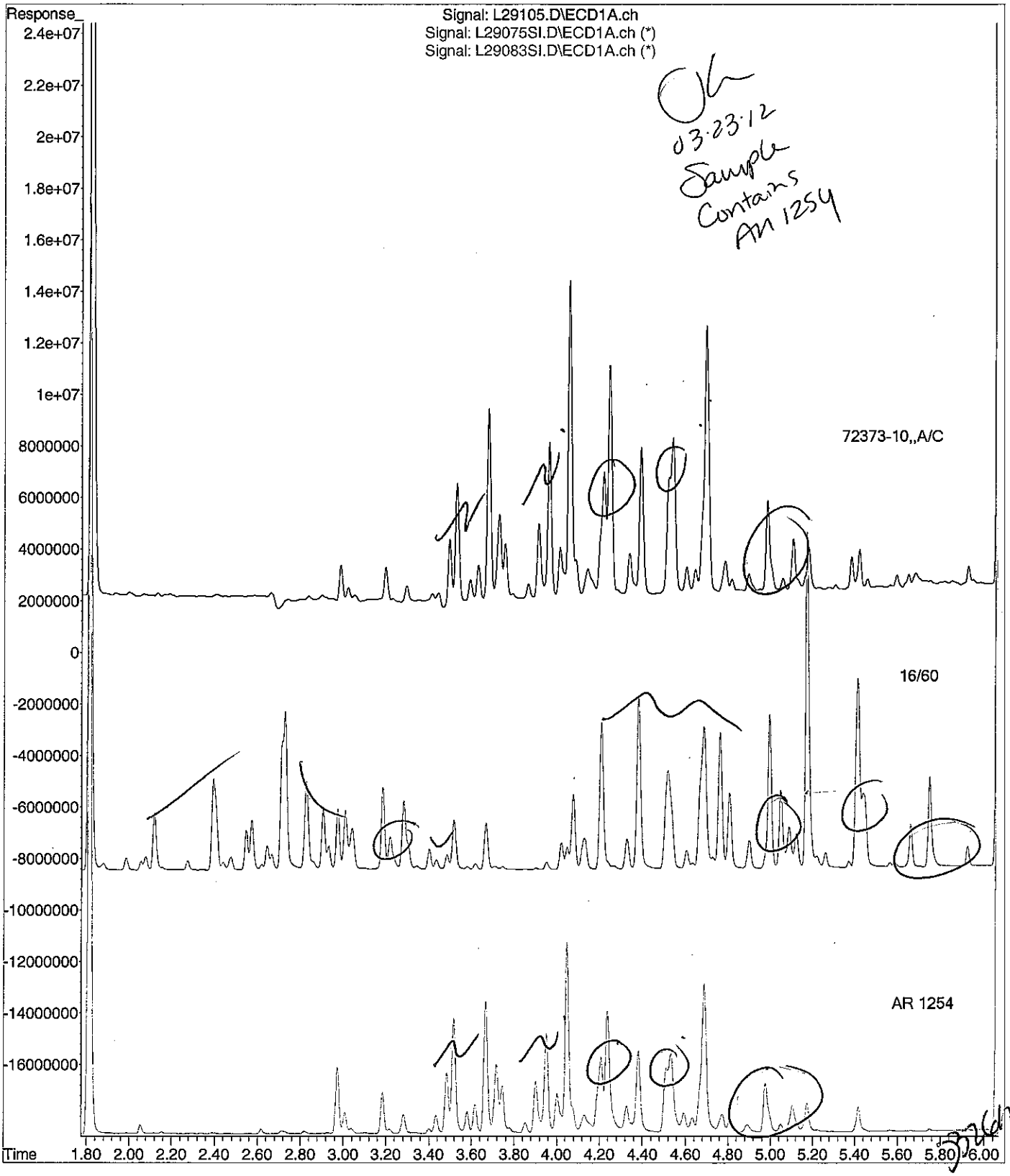
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 23 09:03:36 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29105.D
Operator : JK
Acquired : 22 Mar 2012 10:08 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-10,,A/C
Misc Info : SOIL
Vial Number: 35



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SAMPLE DATA

Lab Sample ID:	72373-11
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-191

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.8**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	86	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-11,,A/C
Data File: L29109.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.8	1.8	0.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

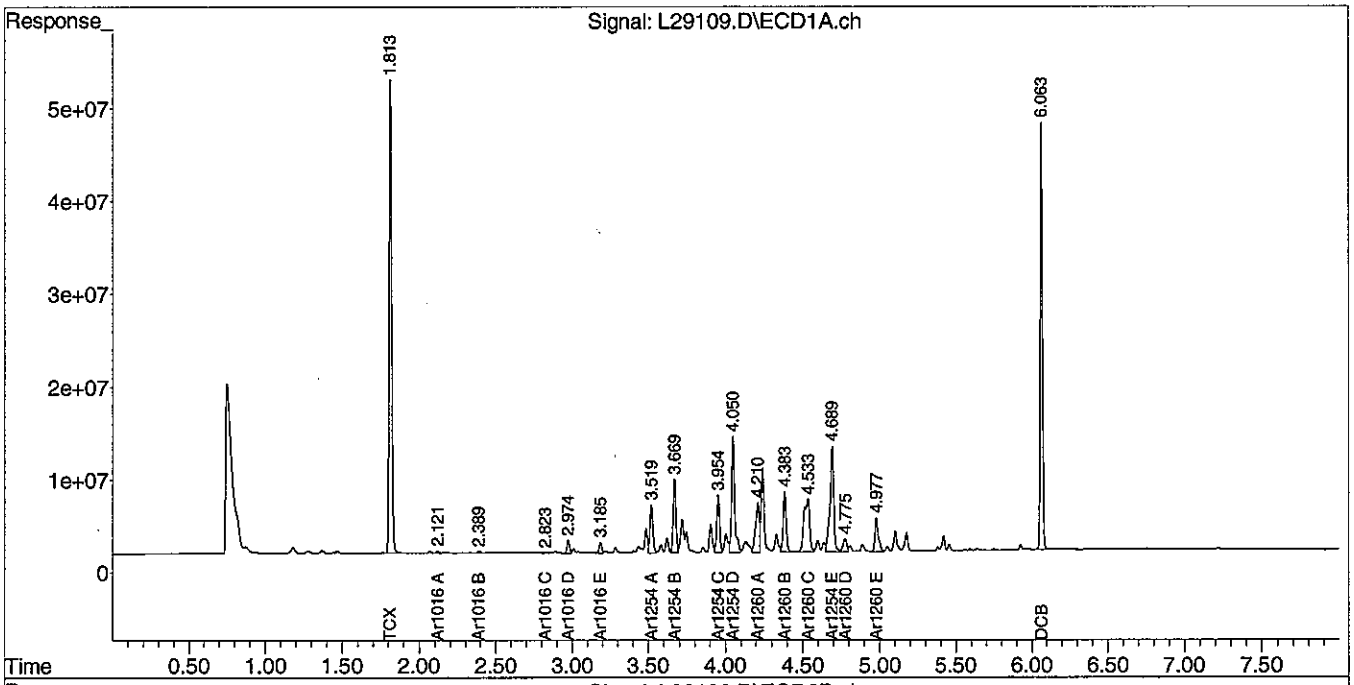
Comments: _____

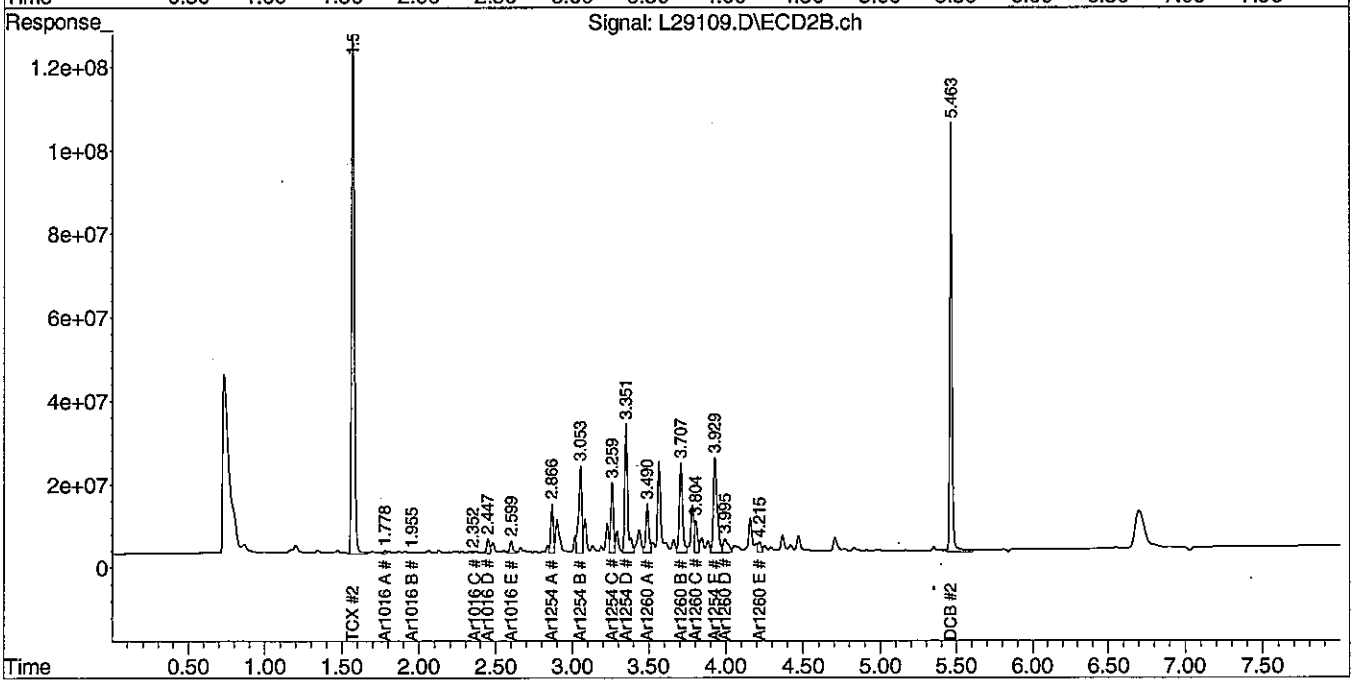
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29109.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 10:58 am
Operator : JK
Sample : 72373-11,,A/C
Misc : SOIL
ALS Vial : 36 Sample Multiplier: 1

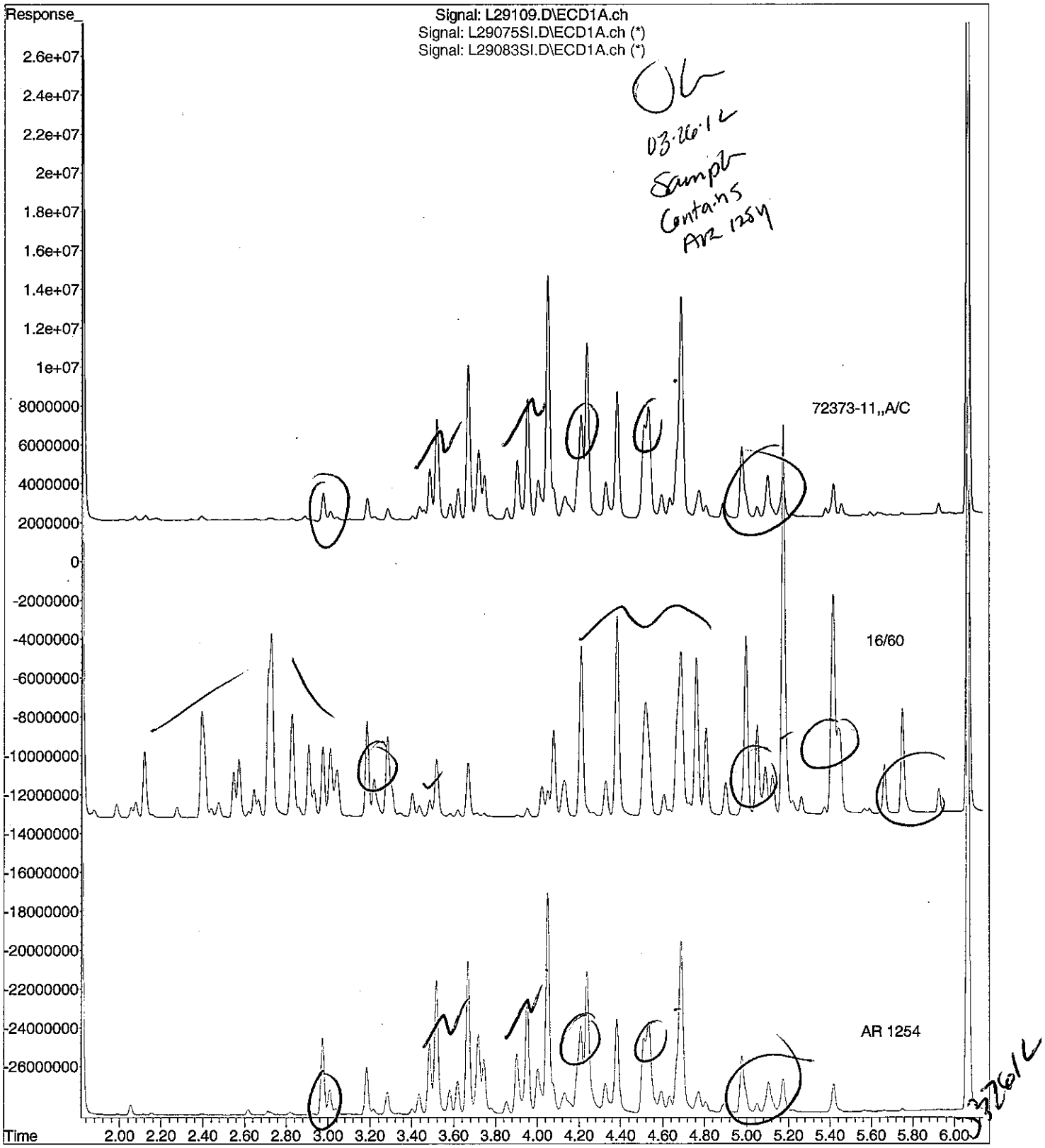
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 09:38:03 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29109.D
Operator : JK
Acquired : 22 Mar 2012 10:58 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-11,,A/C
Misc Info : SOIL
Vial Number: 36



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SAMPLE DATA

Lab Sample ID:	72373-12
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-192

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	86	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

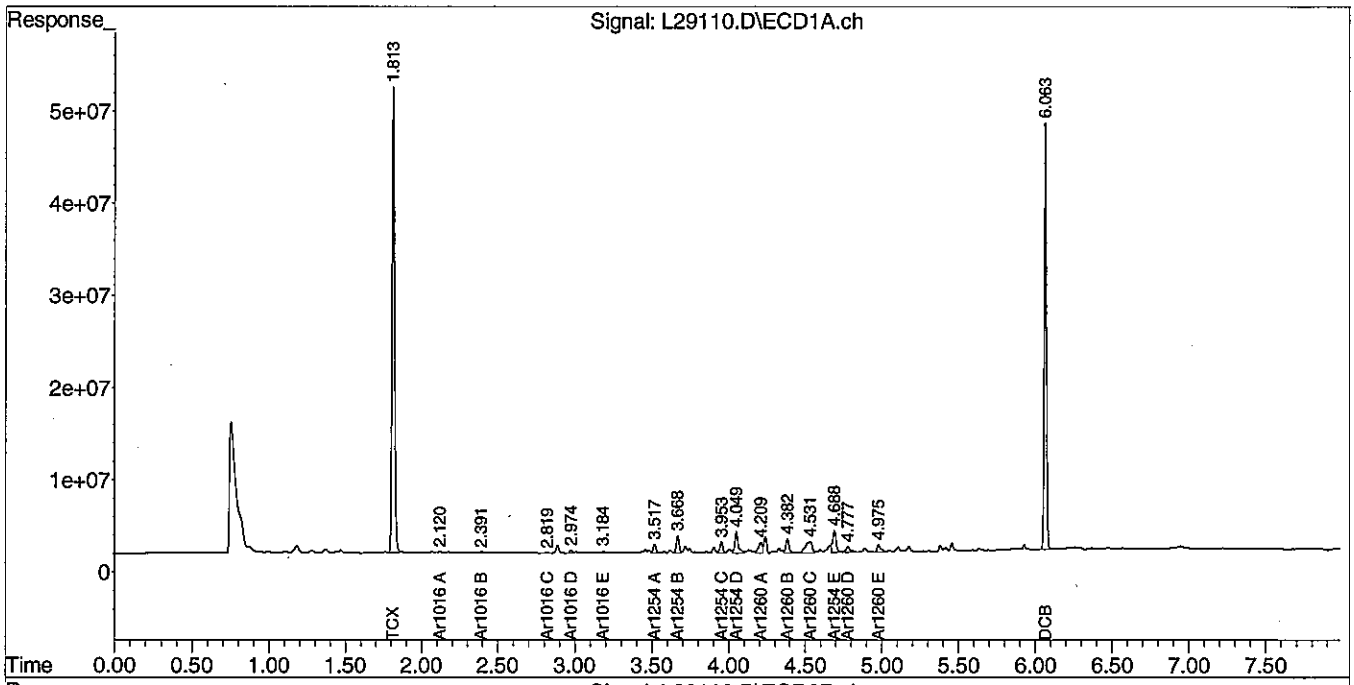
PCB Report

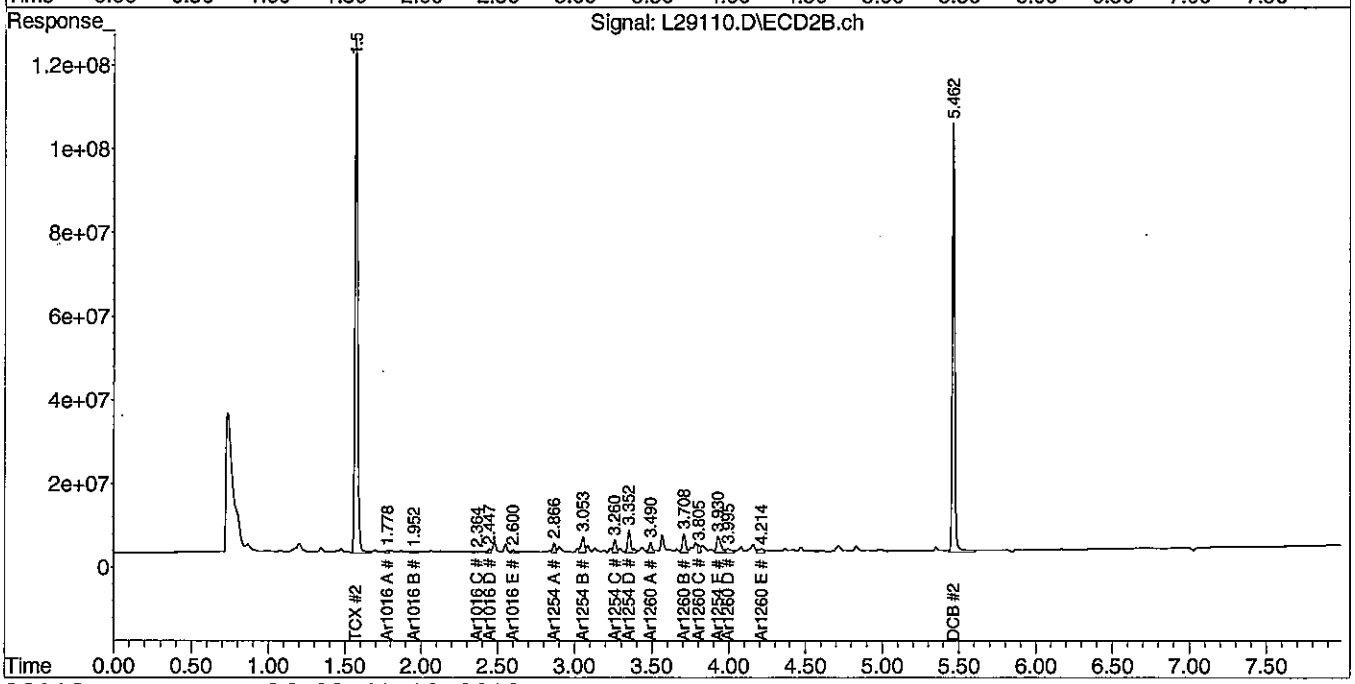
Authorized signature

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29110.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 11:09 am
Operator : JK
Sample : 72373-12,,A/C
Misc : SOIL
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 09:41:03 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-13
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-193

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.5**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-13,,A/C
Data File: L29111.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.5	1.5	0.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

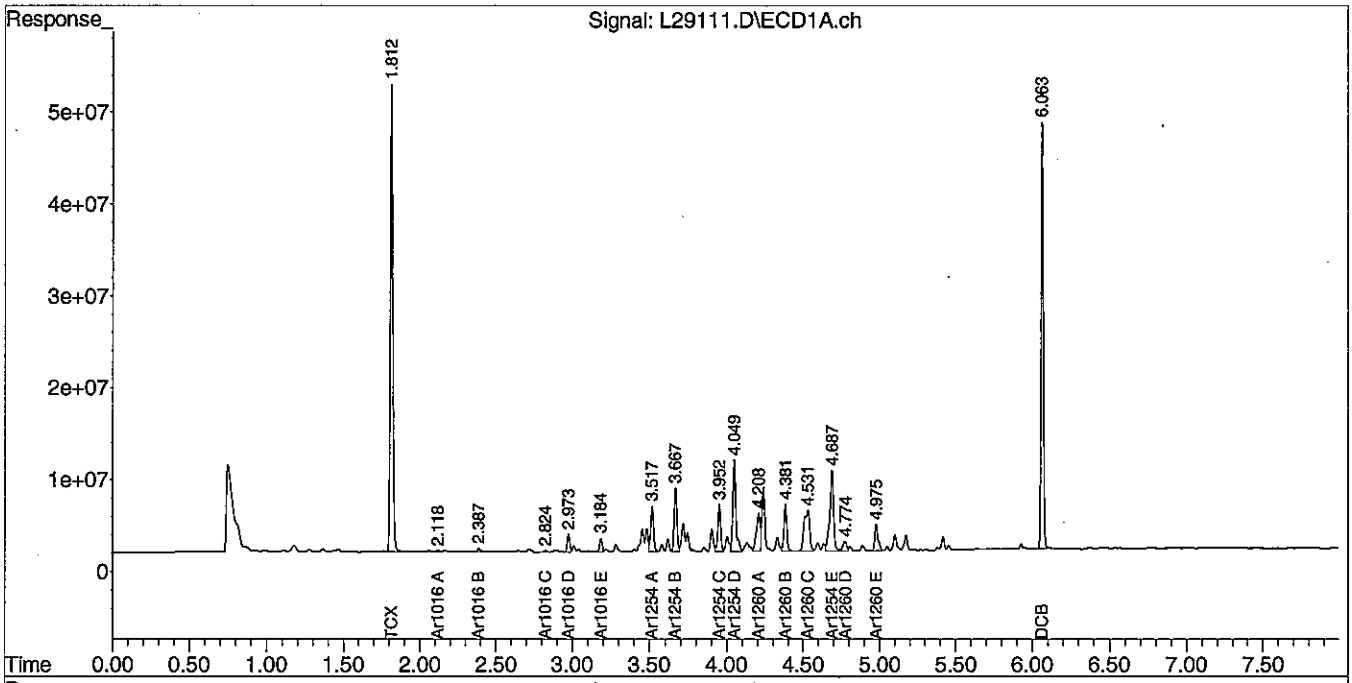
Comments: _____

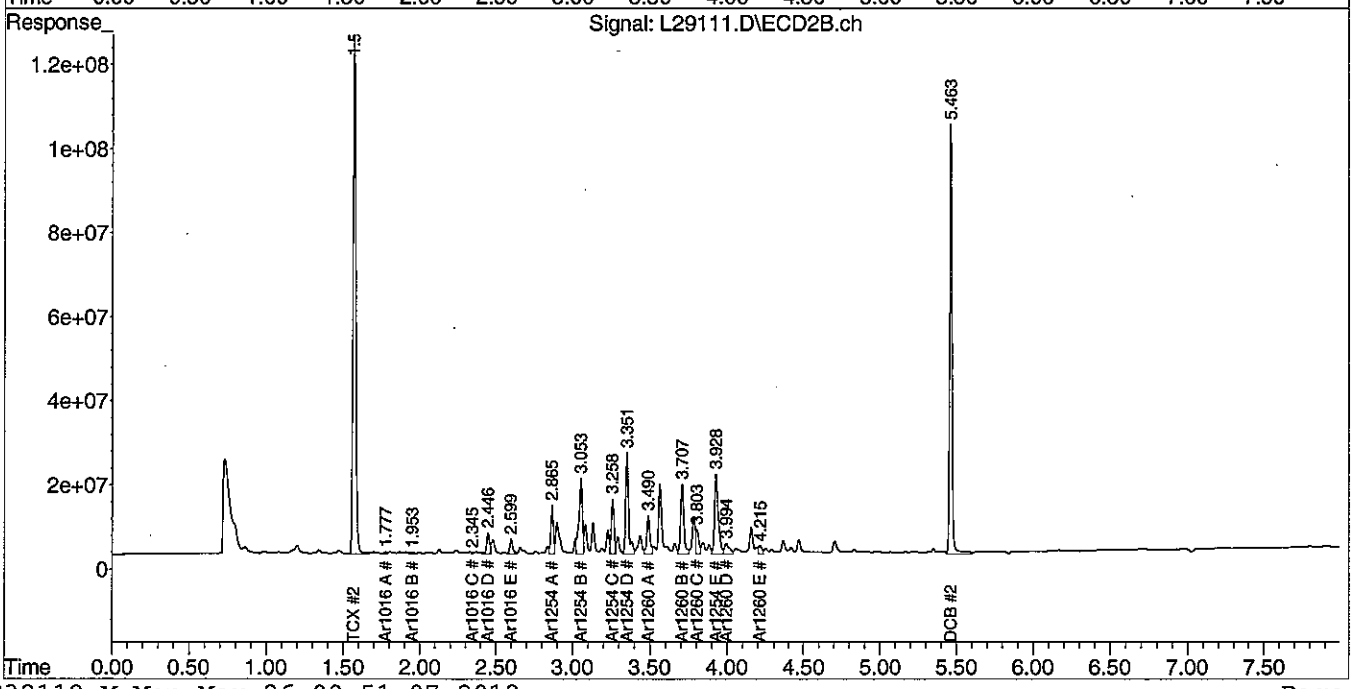
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29111.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 11:19 am
Operator : JK
Sample : 72373-13,,A/C
Misc : SOIL
ALS Vial : 38 Sample Multiplier: 1

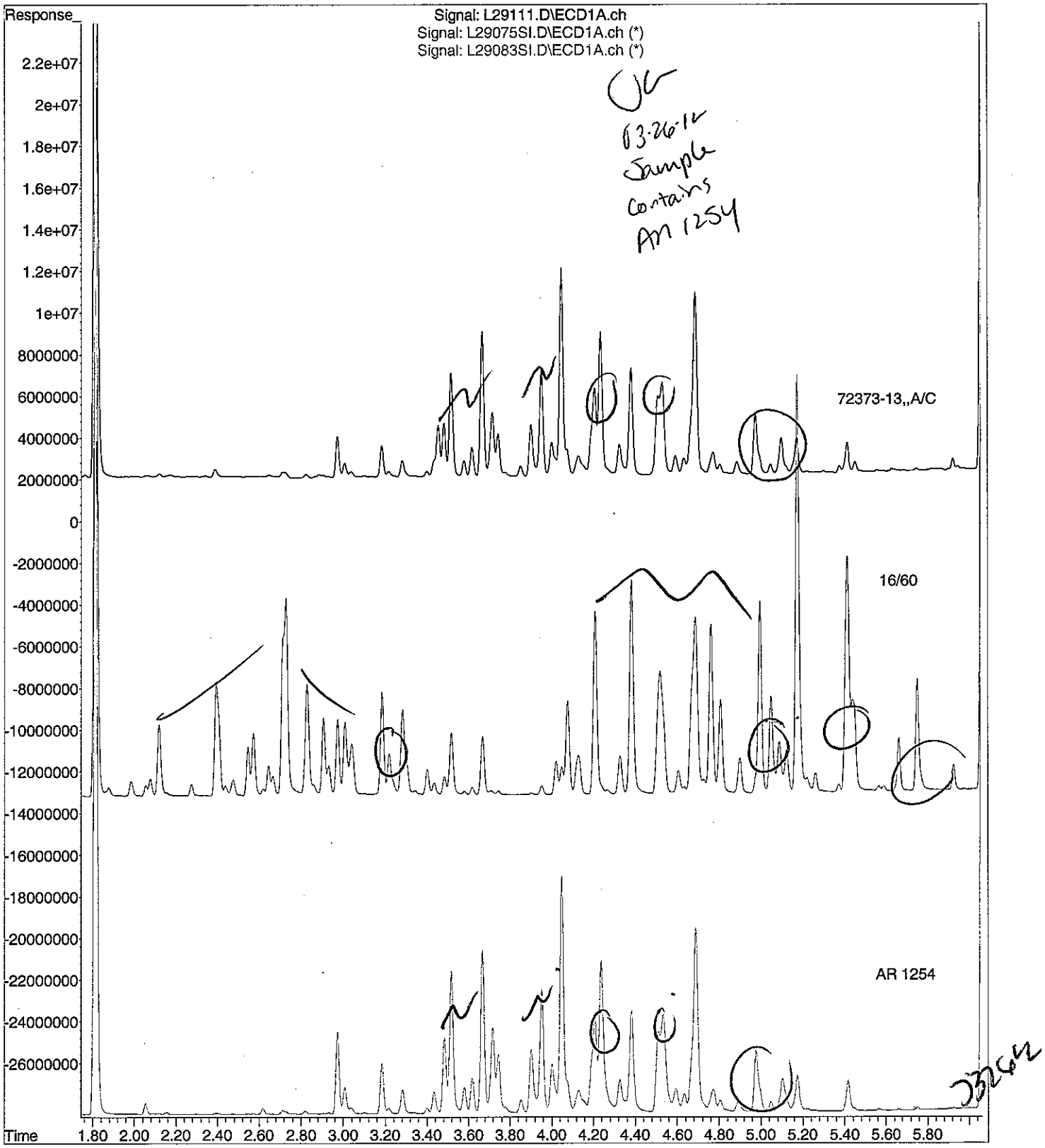
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 09:50:55 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29111.D
Operator : JK
Acquired : 22 Mar 2012 11:19 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-13,,A/C
Misc Info : SOIL
Vial Number: 38



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Ms. Amy Wallace
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Portland ME 04102

March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-14
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	5.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-194

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	33
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	91	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-14,1:5,,A/C
Data File: L29129.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	33.3	31.6	5.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

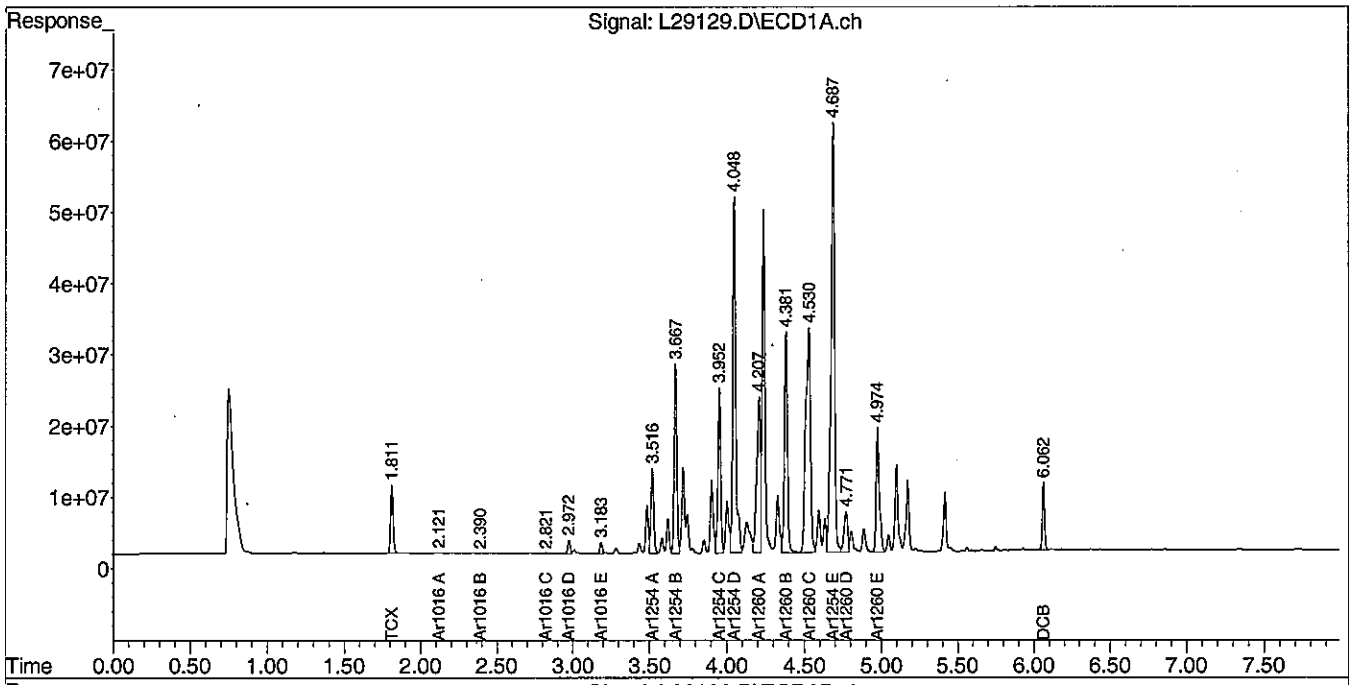
Comments: _____

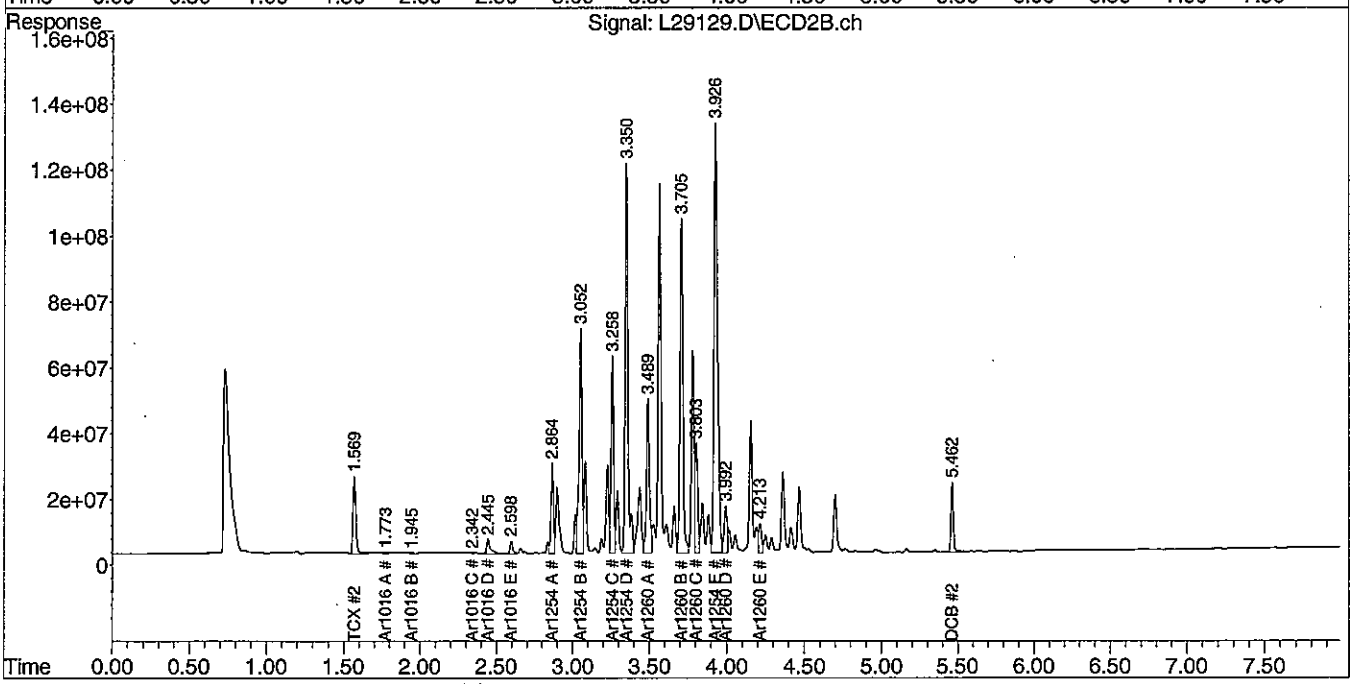
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29129.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 3:13 pm
Operator : JK
Sample : 72373-14,1:5,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 10:54:16 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72373-15
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-195

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**3.1**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-15,,A/C
Data File: L29113.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	3.1	3.1	2.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

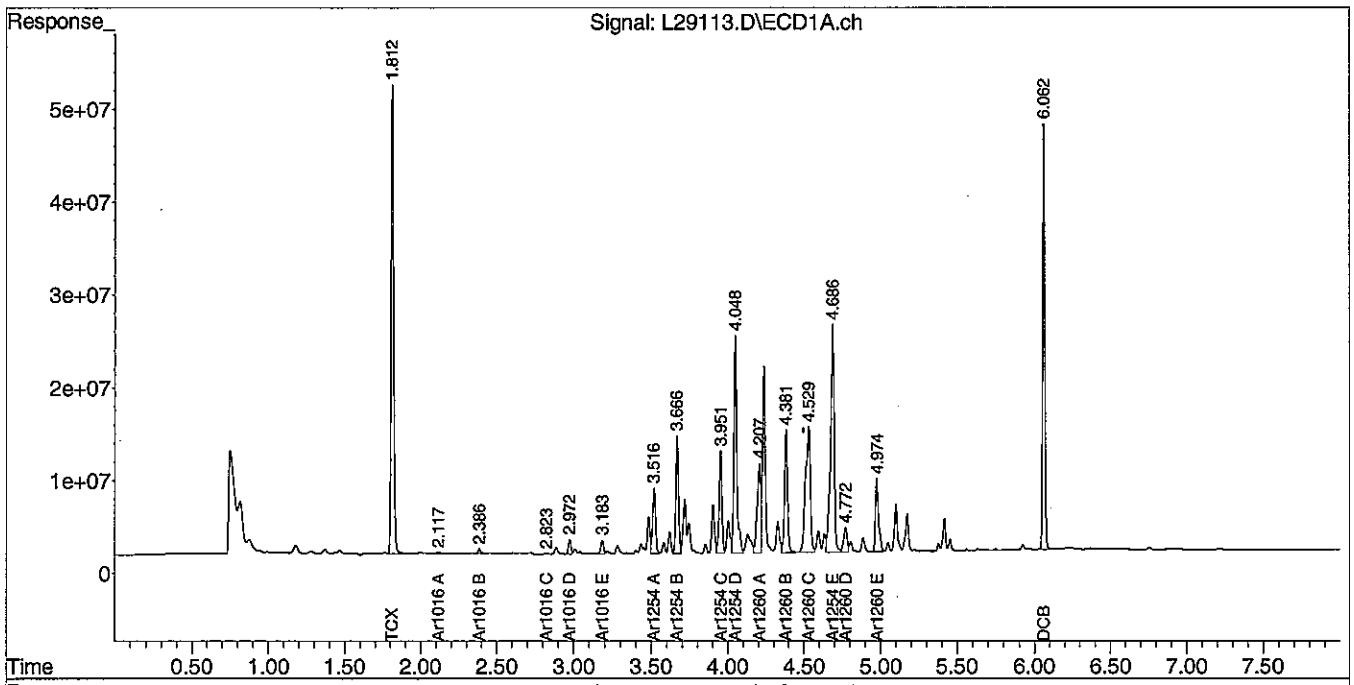
Comments: _____

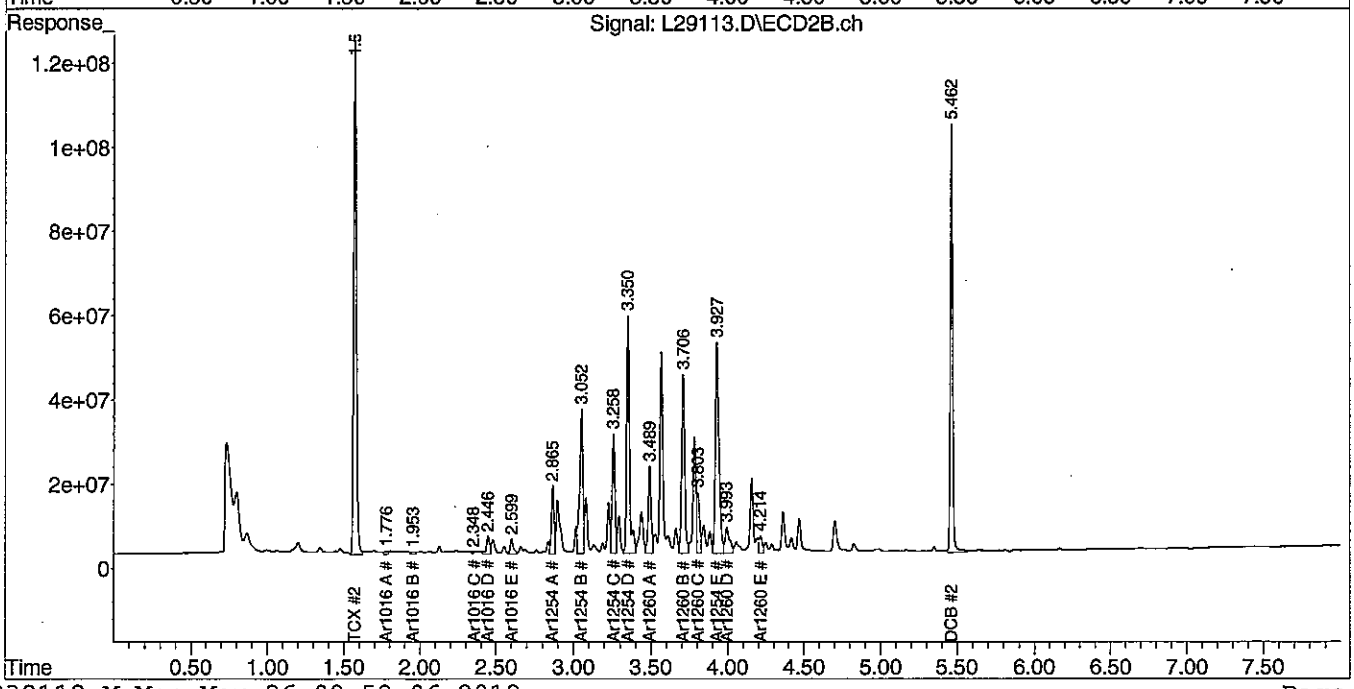
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29113.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 11:40 am
Operator : JK
Sample : 72373-15,,A/C
Misc : SOIL
ALS Vial : 40 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 09:51:55 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-16
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-196

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	84	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

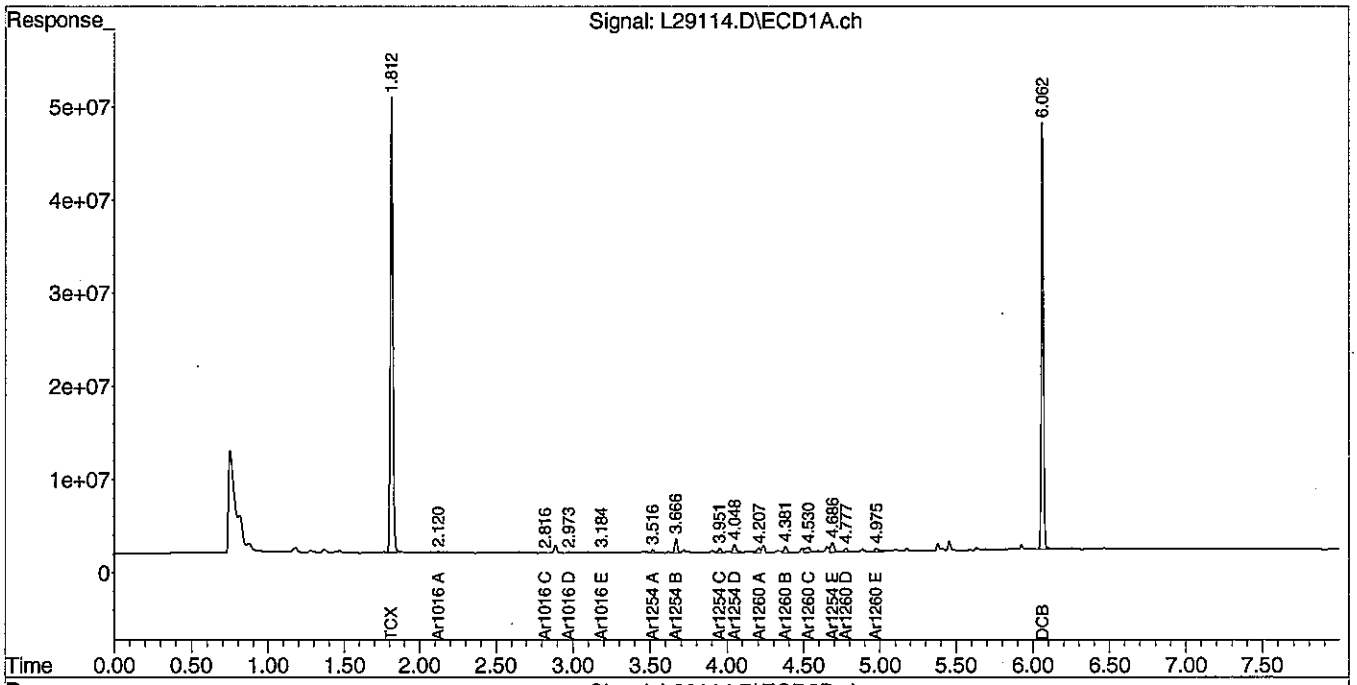
PCB Report

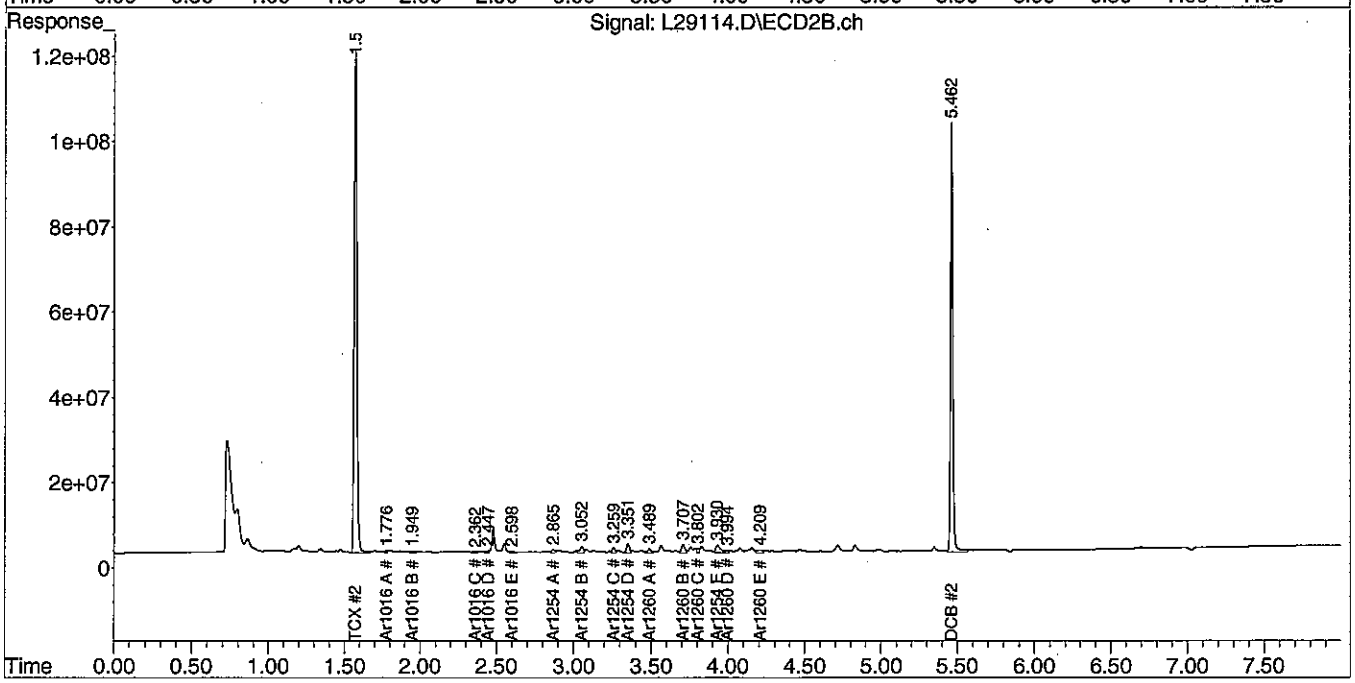
Authorized signature

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29114.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 11:50 am
Operator : JK
Sample : 72373-16,,A/C
Misc : SOIL
ALS Vial : 41 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 22 13:55:14 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-17
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-197

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**3.9**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	83	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-17,,A/C
Data File: L29115.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	3.9	3.9	1.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

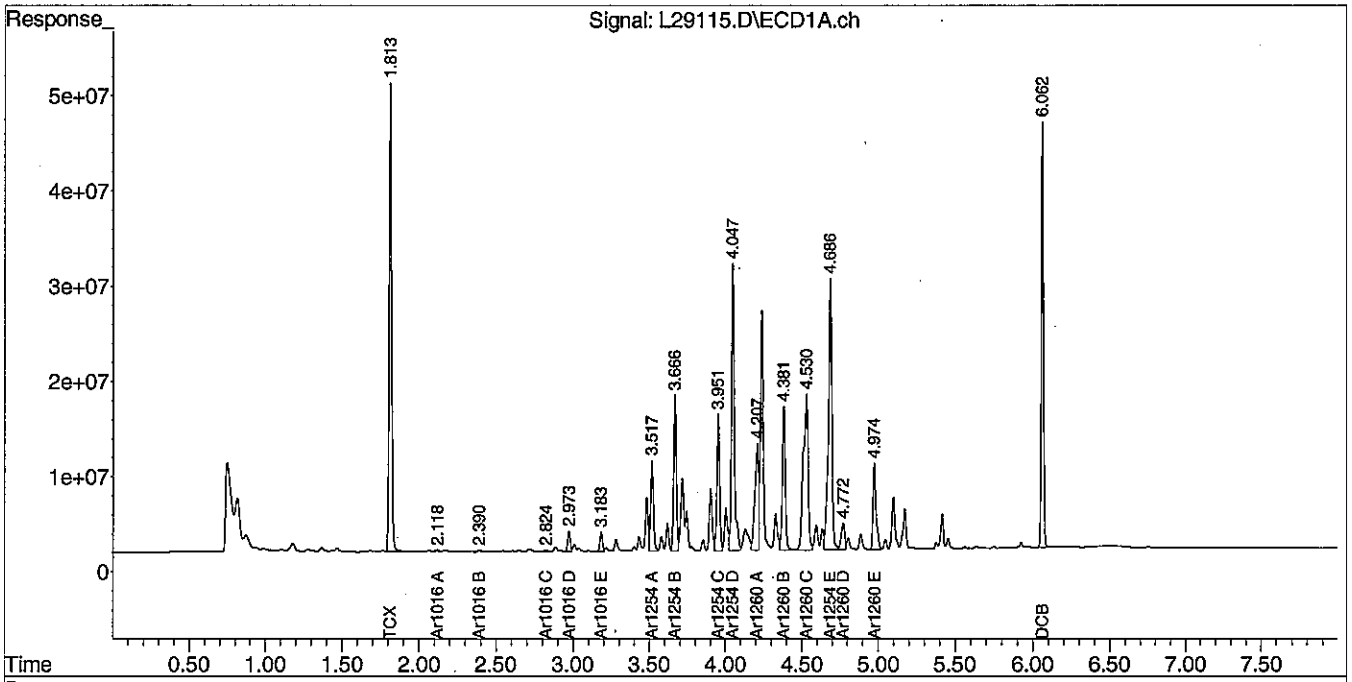
Comments: _____

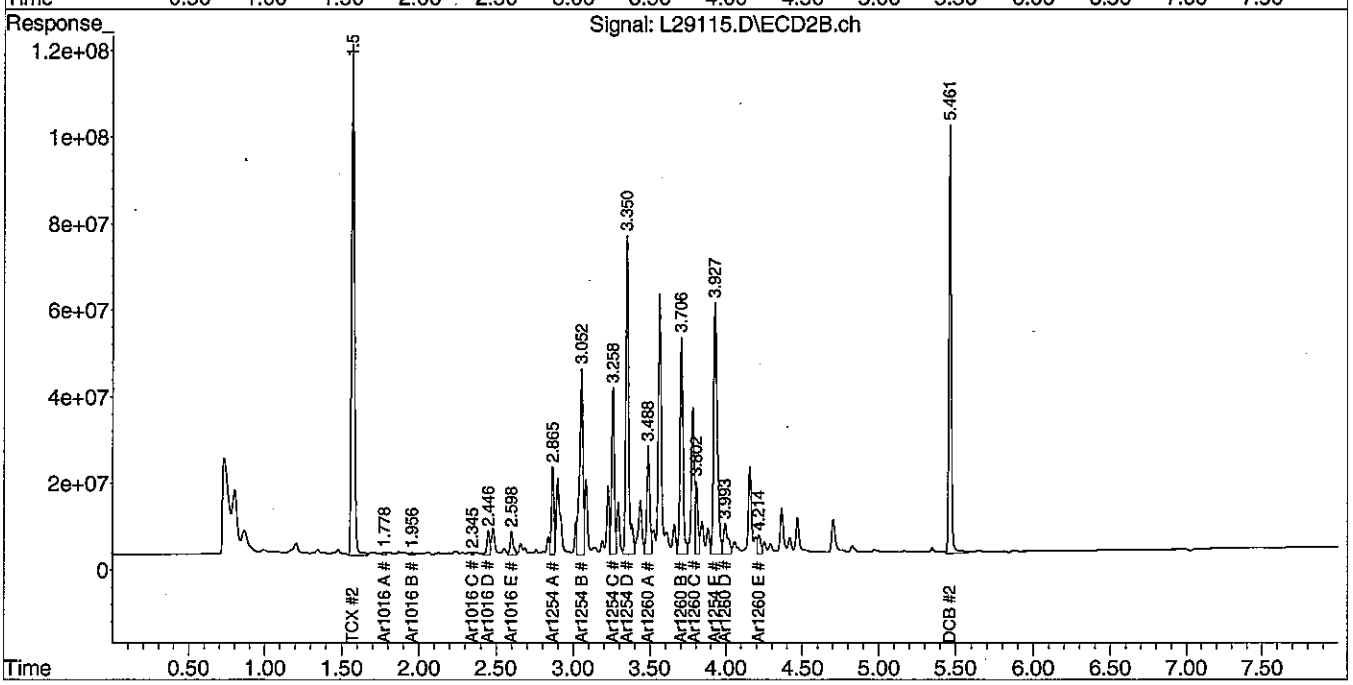
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29115.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 12:00 pm
Operator : JK
Sample : 72373-17,,A/C
Misc : SOIL
ALS Vial : 42 Sample Multiplier: 1

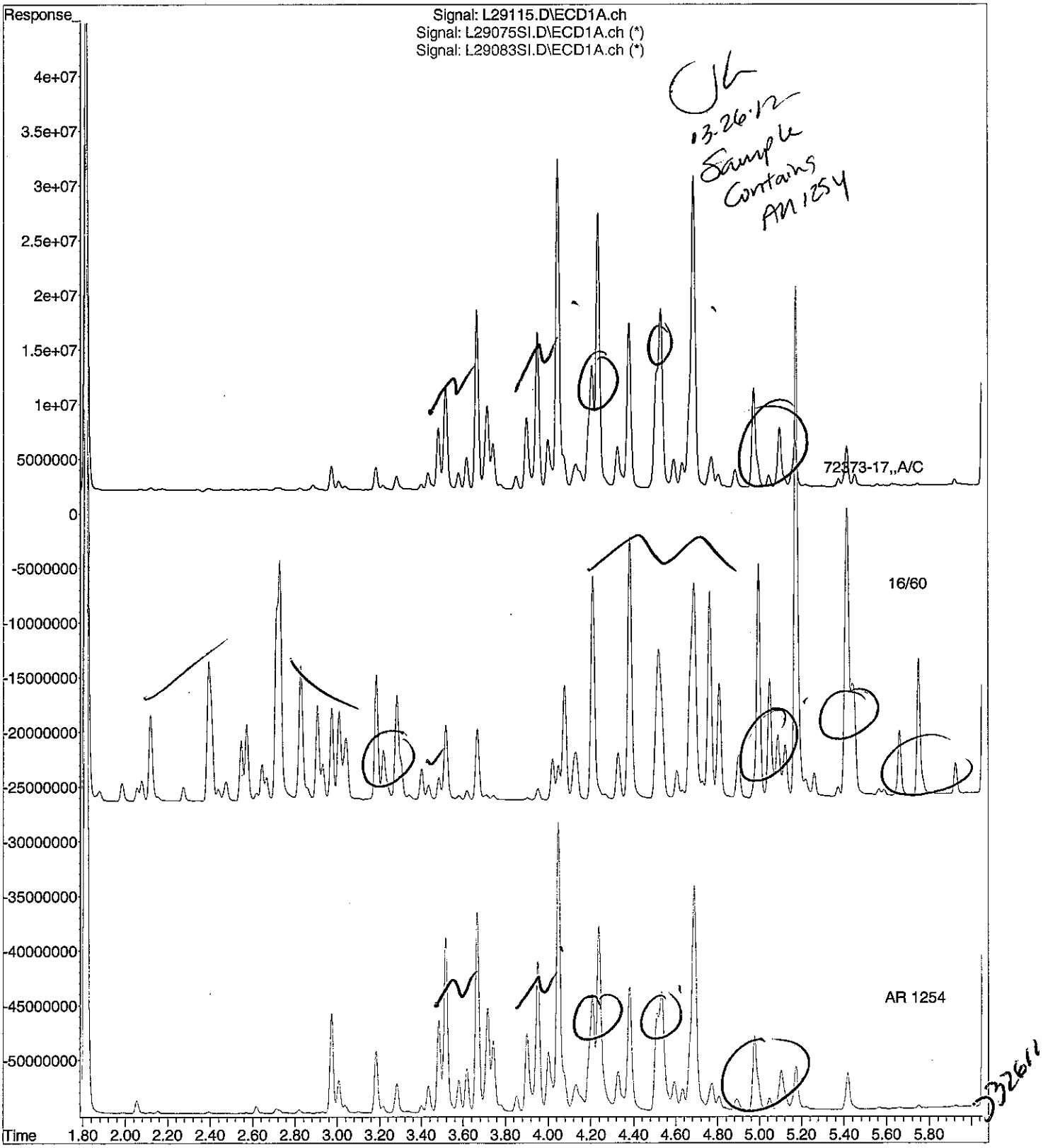
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 09:58:03 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\032112-L\L29115.D
Operator : JK
Acquired : 22 Mar 2012 12:00 pm using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72373-17,,A/C
Misc Info : SOIL
Vial Number: 42



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March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-18
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/21/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-198

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	83	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

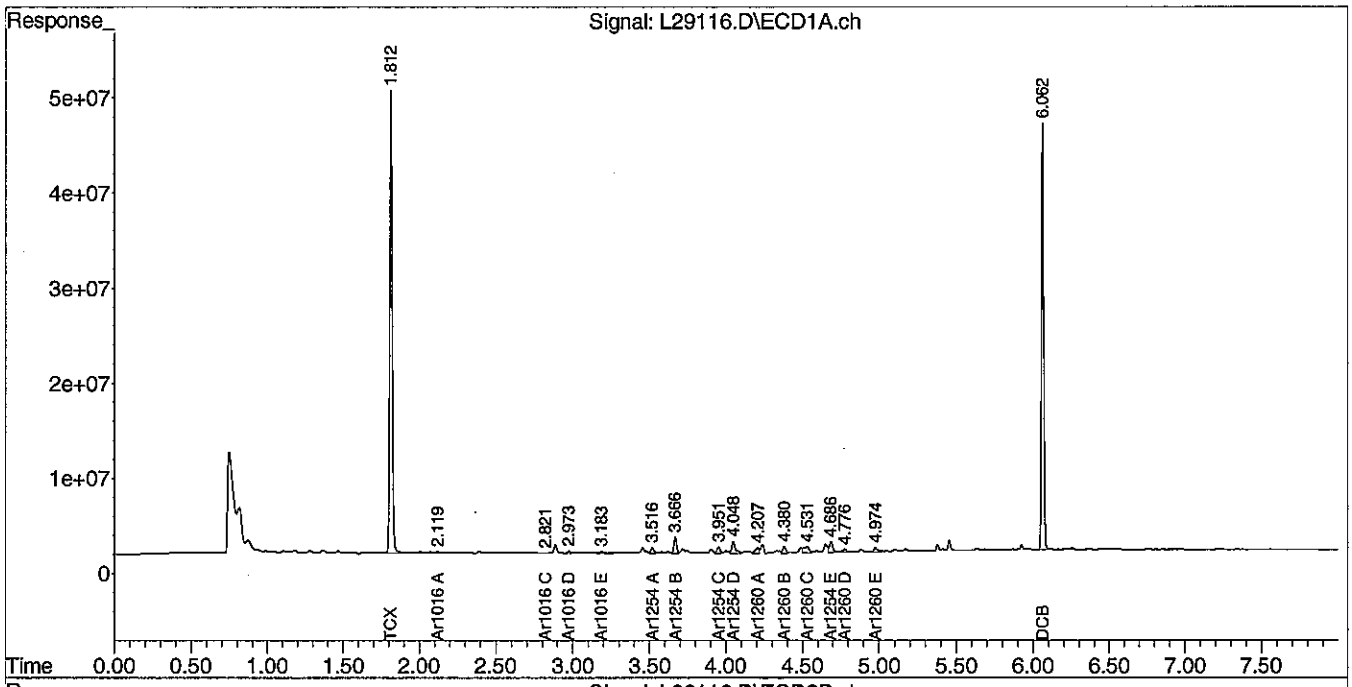
PCB Report

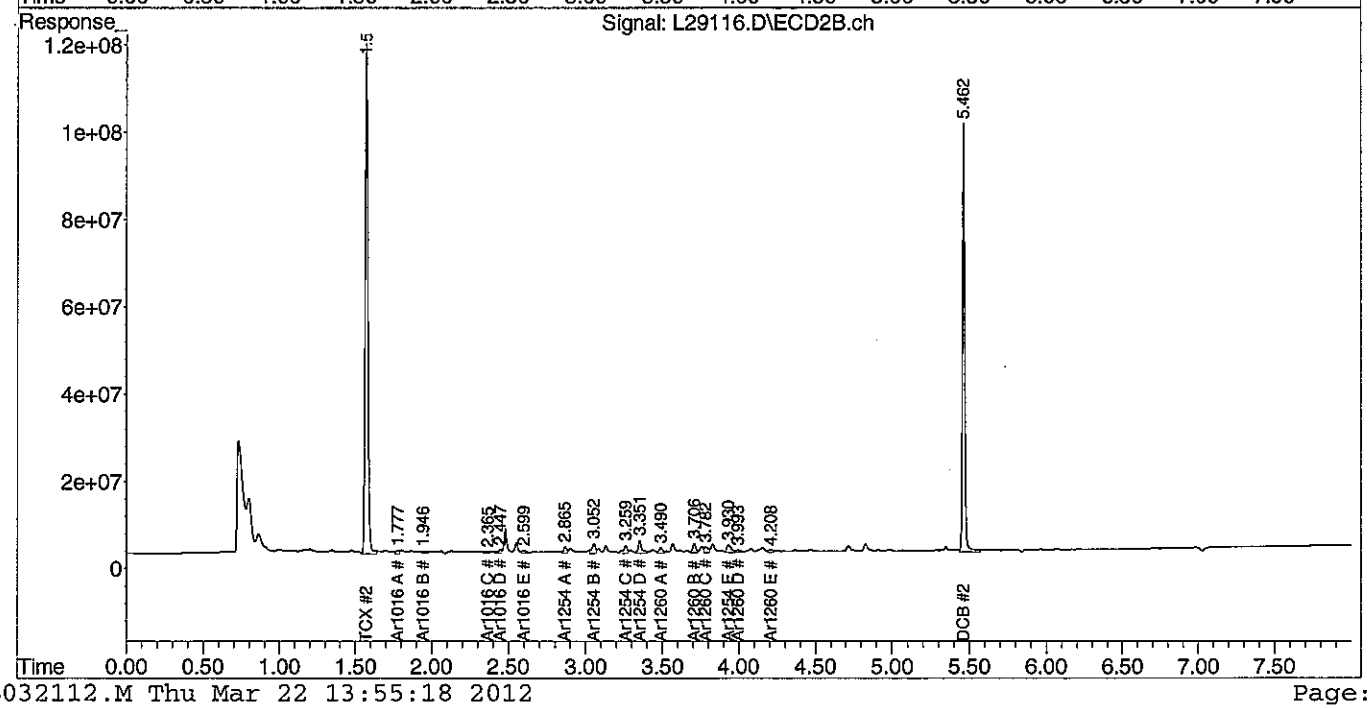
Authorized signature

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29116.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 12:11 pm
Operator : JK
Sample : 72373-18,,A/C
Misc : SOIL
ALS Vial : 43 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 22 13:55:18 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-19
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	03/13/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-199

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.7**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-19,,A/C
Data File: L29117.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.7	0.7	7.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

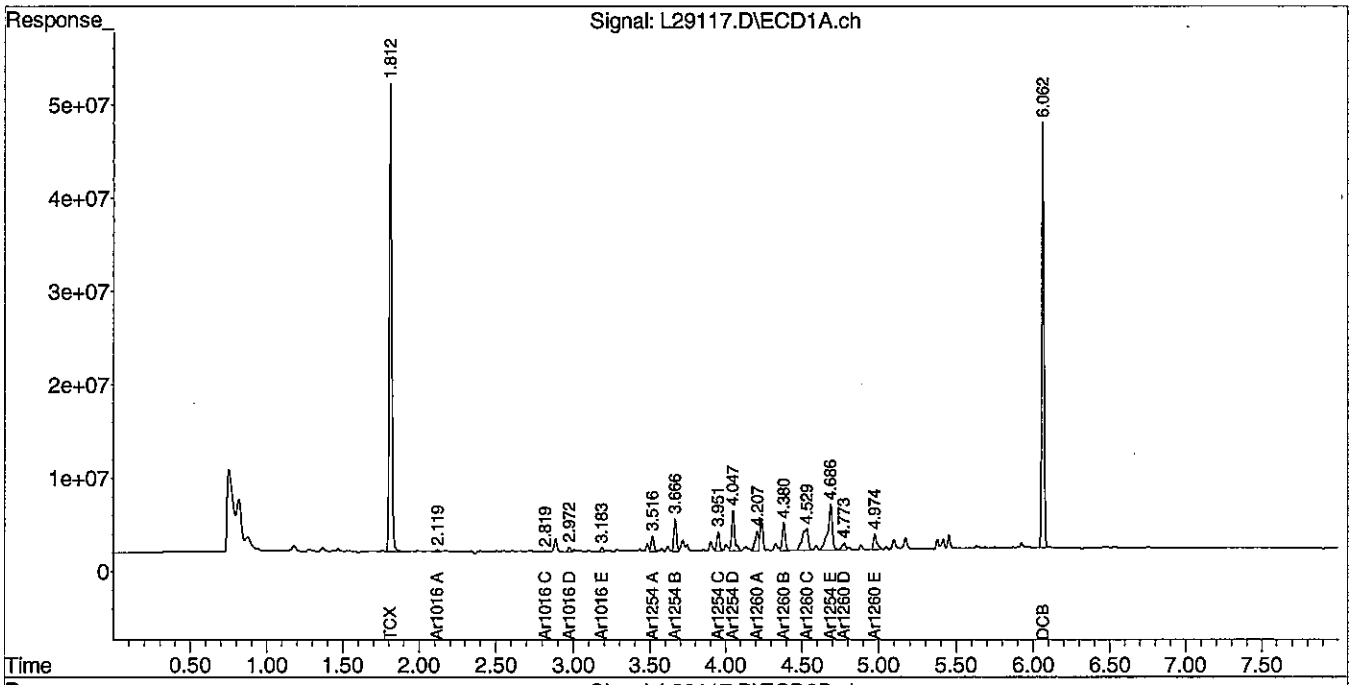
Comments: _____

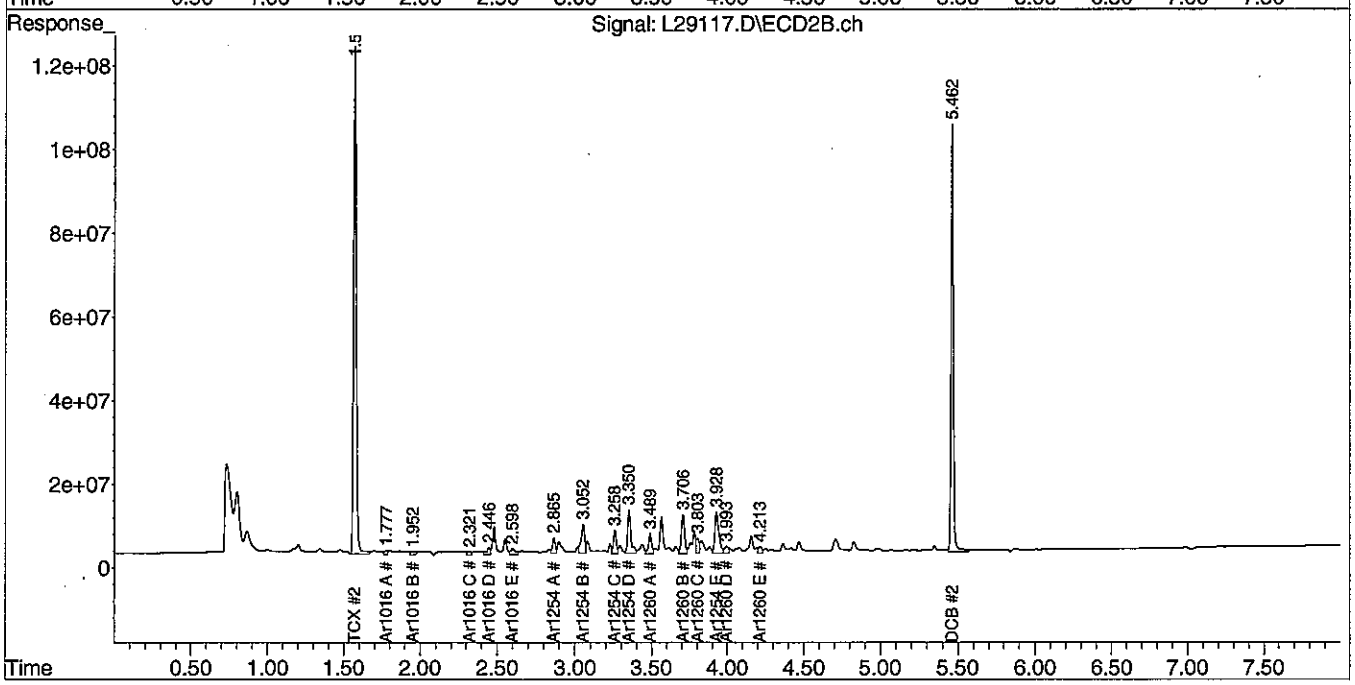
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29117.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 12:21 pm
Operator : JK
Sample : 72373-19,,A/C
Misc : SOIL
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 09:59:45 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-20
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	5.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-200

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**32**
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	91	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-20,1:5,,A/C
Data File: L29130.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	31.0	31.8	2.4	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

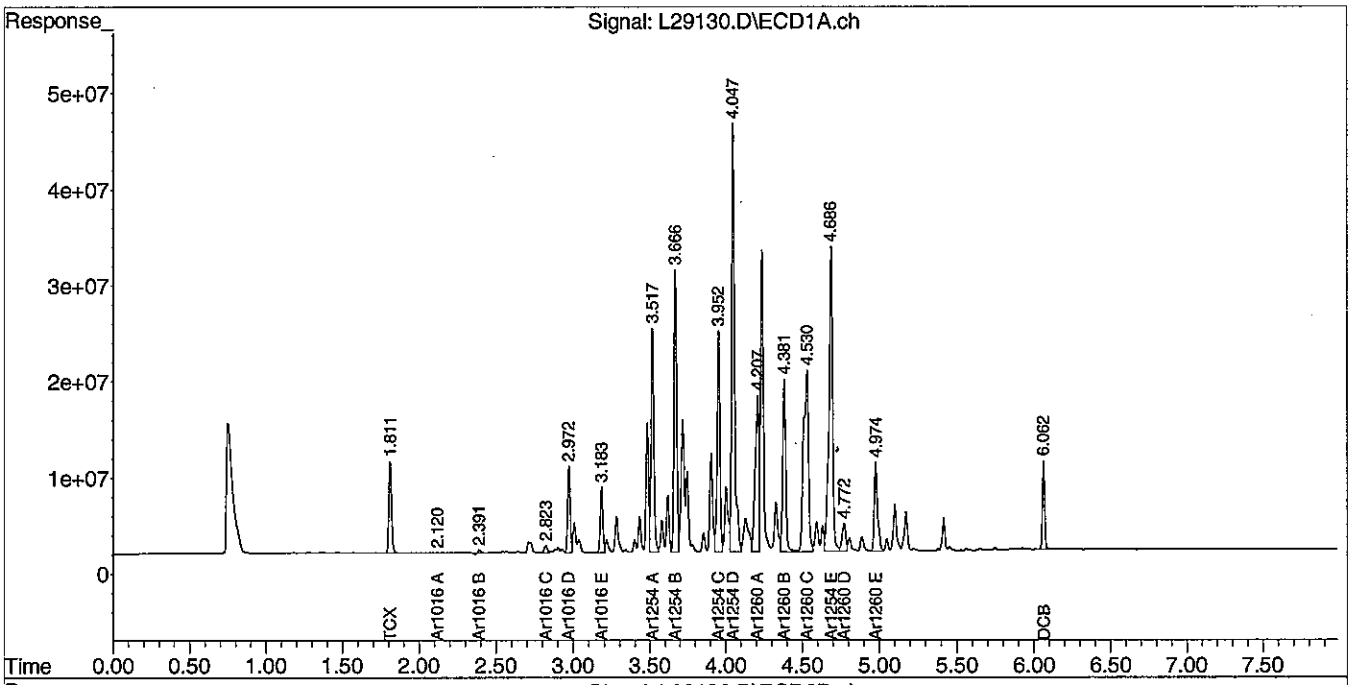
Comments: _____

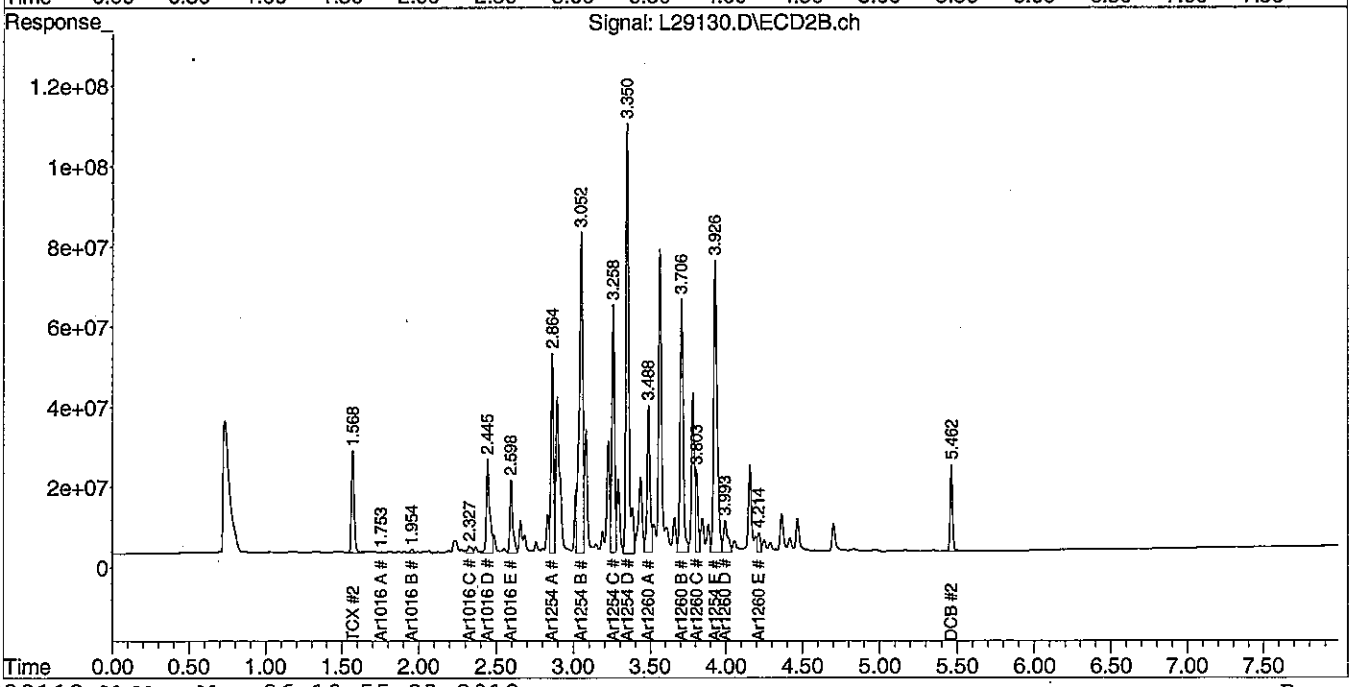
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29130.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 3:23 pm
Operator : JK
Sample : 72373-20,1:5,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 10:55:14 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

March 26, 2012

SAMPLE DATA

Lab Sample ID:	72373-21
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	5.0
Collection Date:	03/19/12
Lab Receipt Date:	03/20/12
Extraction Date:	03/20/12
Analysis Date:	03/22/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-190

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	2.5	U
PCB-1221	2.5	U
PCB-1232	2.5	U
PCB-1242	2.5	U
PCB-1248	2.5	U
PCB-1254	2.5	**22**
PCB-1260	2.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373
Sample: 72373-21,1:5,,A/C
Data File: L29131.D
Dilution Factor: 5.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	22.0	22.2	0.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

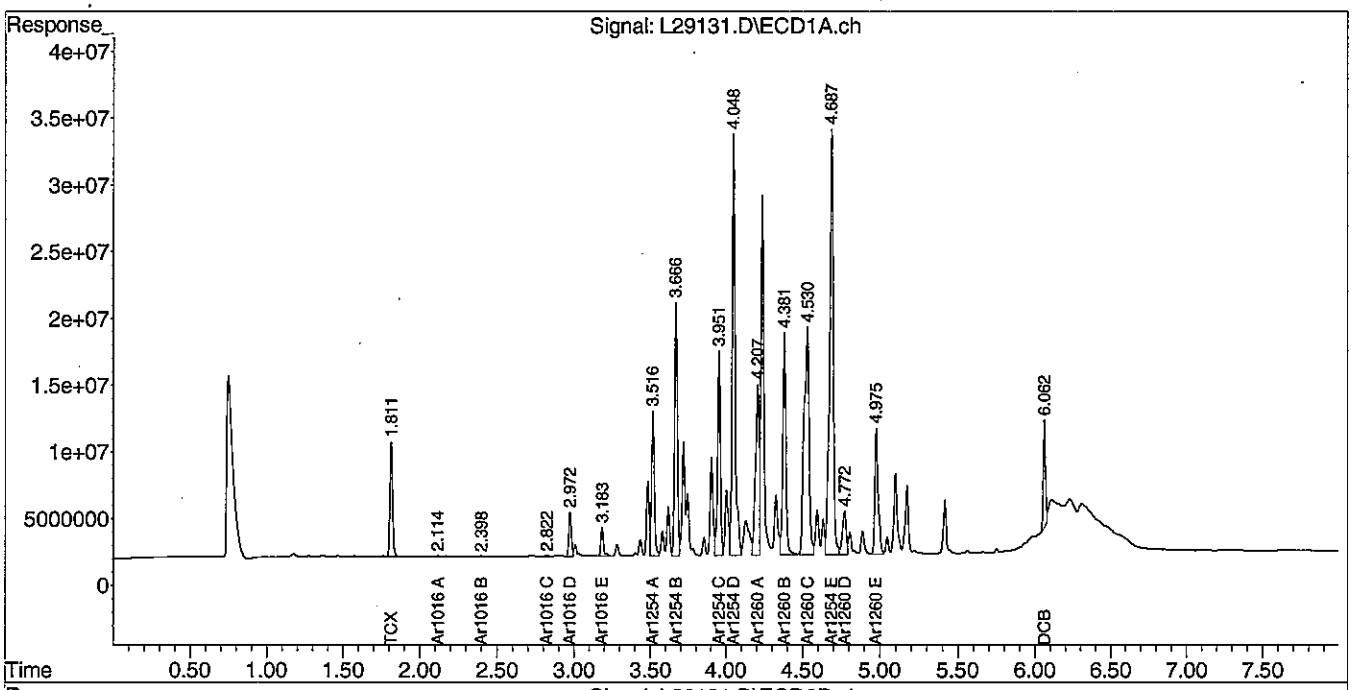
Comments: _____

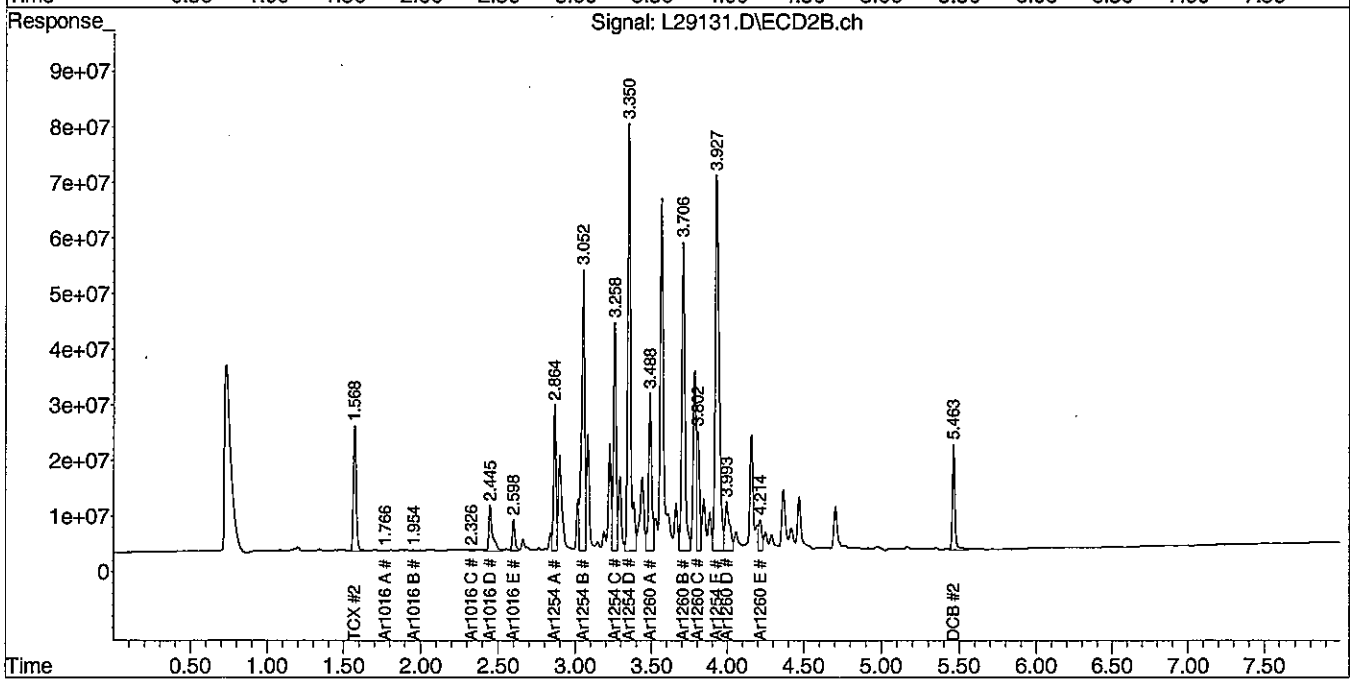
PCB FORM 10

Data Path : C:\msdchem\1\DATA\032112-L\
Data File : L29131.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 22 Mar 2012 3:34 pm
Operator : JK
Sample : 72373-21,1:5,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Mar 26 10:56:26 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Mar 22 10:38:07 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B032012PSOX,,A/C	75		100		62		97	
L032012PSOX,,A/C	93		87		91		88	
LD032012PSOX,,A/C	94		88		89		91	
72373-4,1:5,,A/C	89		90		88		94	
72373-5,1:5,,A/C	91		91		93		85	
72373-6,1:10,,A/C	94		96		91		95	
72373-7,1:2,,A/C	93		88		86		92	
72373-14,1:5,,A/C	93		91		91		93	
72373-20,1:5,,A/C	92		91		94		95	
72373-21,1:5,,A/C	83		78		84		90	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B032112PSOX2,,A/C	92		87		89		88	
L032112PSOX2,,A/C	93		87		90		89	
LD032112PSOX2,,A/C	91		87		88		88	
72373-1,,A/C	94		87		90		87	
72373-2,,A/C	93		84		88		84	
72373-3,,A/C	93		84		88		84	
72373-8,,A/C	92		85		88		87	
72373-9,,A/C	92		86		89		87	
72373-10,,A/C	91		83		85		81	

	Lower Limit	Upper Limit
SMC #1 = TCX	40	130
SMC #2 = DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72373

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B032112PSOX2,,RR A/C	93		87		87		89	
72373-11,,A/C	94		86		90		89	
72373-12,,A/C	93		86		89		90	
72373-13,,A/C	93		85		89		89	
72373-15,,A/C	92		85		88		86	
72373-16,,A/C	90		84		86		85	
72373-17,,A/C	90		83		86		85	
72373-18,,A/C	90		83		85		85	
72373-19,,A/C	92		85		88		87	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72373

Non-spiked sample: B032012PSOX,,A/C

Spike: L032012PSOX,,A/C

Spike duplicate: LD032012PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	65	140	30	0	1.7	87		1.7	85		1.3	
PCB 1260	2.0	2.0	60	130	30	0	1.7	87		1.8	90		3.3	
PCB 1016 #2	2.0	2.0	65	140	30	0	1.8	88		2.0	99		11.8	
PCB 1260 #2	2.0	* 2.0	60	130	30	0	1.8	90		1.9	95		5.2	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB WIPE
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72373

Non-spiked sample: B032112PSOX2,,A/C

Spike: L032112PSOX2,,A/C

Spike duplicate: LD032112PSOX2,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	65	140	30	0	1.8	85		1.7	83		1.6	
PCB 1260	2.0	2.0	60	130	30	0	1.8	85		1.8	84		0.5	
PCB 1016 #2	2.0	2.0	65	140	30	0	1.8	86		1.7	84		1.8	
PCB 1260 #2	2.0	2.0	60	130	30	0	1.9	90		1.9	90		0.3	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or Hand-delivered
2) Temperature (°C): 3.8
3) Received in good condition: (Y) or N
4) pH checked by: N/A
5) Labels checked by: DW 3/20/12

Project Name: UMaine - Steward Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code: Please fill in preservation code here

Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: (8082) 608 Soxhlet? (Y) or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWG-180	3/13/12	15:15					B/G						WP	1		~~72373~~ 83/20/12 -1
UMSC-VWG-181	3/13/12	15:20					B/G						WP	1		72373 -2
UMSC-VWG-182	3/13/12	15:25					B/G						WP	1		3
UMSC-VWG-183	3/13/12	15:30					B/G						WP	1		4
UMSC-VWG-184	3/13/12	15:35					B/G						WP	1		5
UMSC-VWM-185	3/19/12	13:15					B/G						WP	1		6
UMSC-VWM-186	3/19/12	13:20					B/G						WP	1		7
UMSC-VWM-187	3/19/12	13:25					B/G						WP	1		8
UMSC-VWM-188	3/19/12	13:40					B/G						WP	1		9
UMSC-VWM-189	3/19/12	13:45					B/G						WP	1		10

Email Results to: awallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

There are two Jar's that ran out of Hexane. They are outside of Bubble Wrap Containers.

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Turnaround Time (TAT): ☐ 24 Hours* ☐ 48 Hours* ☐ 72 Hours* ☒ 5 Days* ☐ 10 Days
*Fee may apply; lab approval required

Project Requirements: *Fee may apply

Report Type: ☐ MCP* ☒ Level II* ☐ CTRCP* ☐ Level III* ☐ DOD* ☐ Level IV* ☐ Standard

State: ☐ NH ☐ MA ☒ ME ☐ CT ☐ RI Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* (N)
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Charlie Smith	Date: 3/19/12	Time: 19:00	Received By:	General Courier
Relinquished By:	General Courier	Date: 3/20/12	Time: 753	Received By:	[signature]
Relinquished By:		Date:	Time:	Received By:	

Page ___ of ___

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 3.8°
3) Received in good condition: (Y) or N
4) pH checked by: N/A
5) Labels checked by: DV 3/20/12

Project Name: Maine-Stewart Commons
Project#: 222822
Company: Woodard Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis Followed by Preservation Code
Preservation Code: Please fill in preservation code here

Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: (8082) 608 Soxhlet: (Y) or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWM-191	3/19/12	13:55					B/G						WP	1		72373-11
UMSC-VWM-192	3/19/12	14:00					B/G						WP	1		12
UMSC-VWM-193	3/19/12	14:05					B/G						WP	1		13
UMSC-VWM-194	3/19/12	14:10					B/G						WP	1		14
UMSC-VWM-195	3/19/12	14:25					B/G						WP	1		15
UMSC-VWM-196	3/19/12	14:35					B/G						WP	1		16
UMSC-VWM-197	3/19/12	14:40					B/G						WP	1		17
UMSC-VWM-198	3/19/12	14:45					B/G						WP	1		18
UMSC-VWM-199	3/19/12	14:50					B/G						WP	1		19
UMSC-VWM-200	3/19/12	14:55					B/G						WP	1		20

Email Results to: aWallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [x] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: _____ (eg. S-1 or GW-1)

EDD Required: Y* (N)

Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: Charlie Smith	Date: 3/19/12	Time: 19:00	Received By: General Carrier
Relinquished By: General Courier	Date: 3/20/12	Time: 753	Received By: Cassy Par
Relinquished By:	Date:	Time:	Received By:

Page ____ of ____

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 3.8
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: DV 3/20/12

Project Name: UMaine-Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:
Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWM-190	3/19/12	13:50					G						WP	1		72373-21

Email Results to:
awallace@woodardcurran.com

Turnaround Time (TAT)
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☒ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:
** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH
☐ MA
☒ ME
☐ CT
☐ RI
Other:

State Standard:
(eg. S-1 or GW-1)
EDD Required: Y N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Charlie Smith	Date: 3/19/12	Time: 19:00	Received By:	General Courier
Relinquished By:	General Courier	Date: 3/20/12	Time: 753	Received By:	[illegible]
Relinquished By:		Date:	Time:	Received By:	

Page ___ of ___

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72373 COOLER NUMBER: 74

CLIENT: Woodard NUMBER OF COOLERS: 1

PROJECT: UMaine - Stewart Commons

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): CP DATE COOLER RECEIVED/OPENED: 3/20/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: General Courier 485737

4. Were custody seals on the outside of cooler? Y N
How many & where: 3 on lid Seal Date: — Seal Name: —

5. Did the custody seals arrive unbroken and intact upon arrival? Y N

6. COC#: —

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 3.8

B. Log-In: Date samples were logged in: 3/20/12 By: CP

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were VOA samples absent of greater than pea-sized bubbles? Y N*/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

If NO, List Sample ID's, Lab #s: _____

*When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): DV Date: 3/20/12

Insured Delivery

P.O. Box 1072
Portland, ME 04104

385 Main Street
So. Portland, ME 04106
1-800-698-5035
767-6004
FAX: 767-7159
E-mail: misraelson@generalcourier.com

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№ 485737

*When you **need** it there, we **get** it there, **guaranteed!!***

Job #:	Driver:	Route:	Date:
	Toney	O/N	3-19-12

FROM	SHIP TO
Charles Smith	ANALITICAL LABS
408 N Main St	195 Commerce WAY
Brewer ME	PORTSMOUTH NH

BILLING INFORMATION

QUANTITY	DESCRIPTION	PRICE
1	COOLER	

Signature [signature] Time 3/20/12 753am

TAMPER RESISTANT

TAMPER RESISTANT

TAMPER RESISTANT

TAMPER RESISTANT

TAMPER RESISTANT

TAMPER RESISTANT

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
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800-929-9906
www.analyticslab.com

April 9, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72502
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Surrogate Decachlorobiphenyl (DCB) recovery was outside the laboratory acceptance criteria on both for sample 72502-5 MSD. The parent sample and MS were in control. Results were reported without qualification.
Sample 72502-1 had a matrix interference that affected the determination of Tetrachloro-m-xylene surrogate recovery on column#1. Column#2 was in control for both surrogates. Results were reported off of column#2 without qualification.

The MS.MSD analyzed on sample 72502-5 had some high recoveries and high RPDs. The laboratory control samples (L040512PSOX/LD040512PSOX) were in control for all analytes. Results were reorted without qualification.

The closing continuing calibration standard (file#M56517SC) had low recovery for PCB 1260 and surrogate Decachlorobiphenyl (DCB) on both columns. The recoveries for PCB 1016, PCB 1254 and surrogate Tetrachloro-m-xylene were in control. The analytical window was reanalyzed with similar results. Results were reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72502

Revision: Rev. 0

Re: UMaine-Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 05 April 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 4/9/2012

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analytics environmental laboratory LLC

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CLIENT: Woodard & Curran **REPORT NUMBER: 72502** **REV: Rev. 0**

PROJECT: UMaine-Stewart Commons (Project No: 222822)

Lab Number	Sample Date	Station Location	Analysis	Comments
72502-1	04/02/12	UMSC-VBS-207	EPA 8082 (PCBs only)	
72502-2	04/02/12	UMSC-VBS-208	EPA 8082 (PCBs only)	
72502-3	04/02/12	UMSC-VBS-209	EPA 8082 (PCBs only)	
72502-4	04/02/12	UMSC-VBS-210	EPA 8082 (PCBs only)	
72502-5	04/02/12	UMSC-VBS-211	EPA 8082 (PCBs only)	
72502-6	04/02/12	UMSC-VBS-212	EPA 8082 (PCBs only)	
72502-7	04/03/12	UMSC-VBS-213	EPA 8082 (PCBs only)	
72502-8	04/03/12	UMSC-VBS-214	EPA 8082 (PCBs only)	
72502-9	04/03/12	UMSC-VBS-215	EPA 8082 (PCBs only)	
72502-10	04/03/12	UMSC-VBS-216	EPA 8082 (PCBs only)	

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 9, 2012

SAMPLE DATA

Lab Sample ID: B040512PSOX
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 04/05/12
Analysis Date: 04/06/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	85	%
Decachlorobiphenyl	64	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

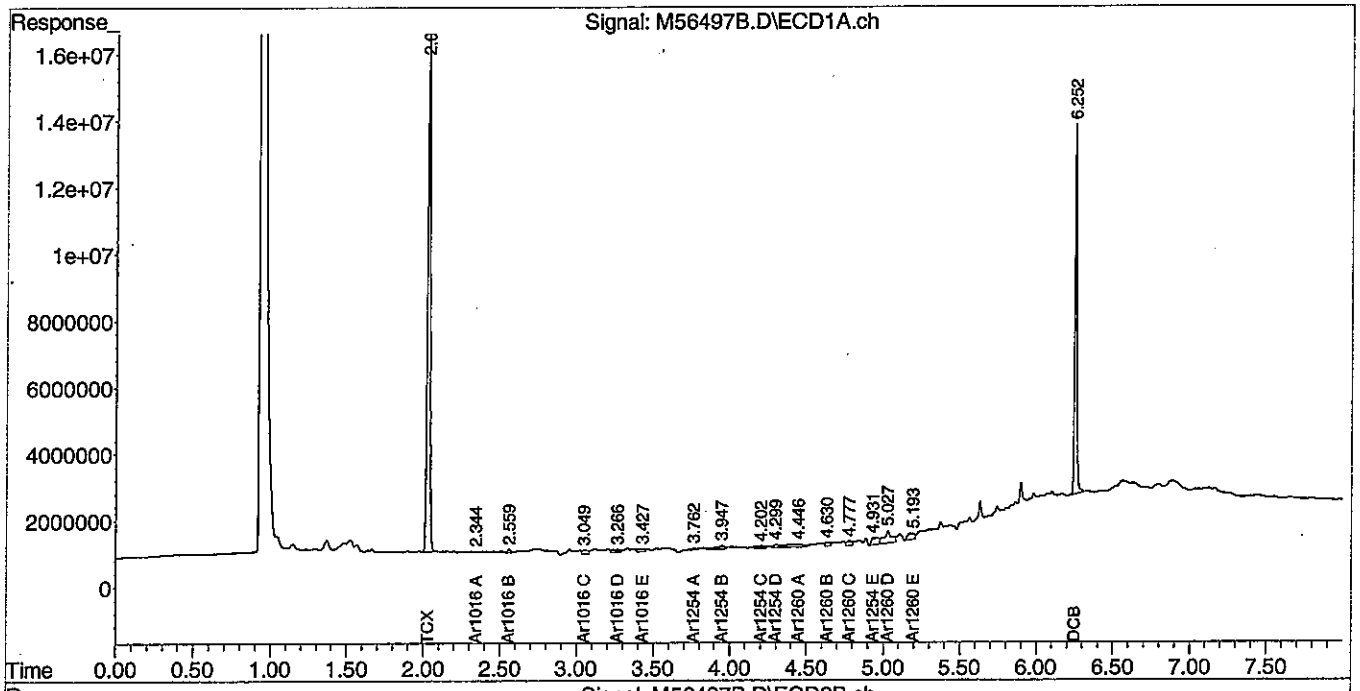
PCB Report

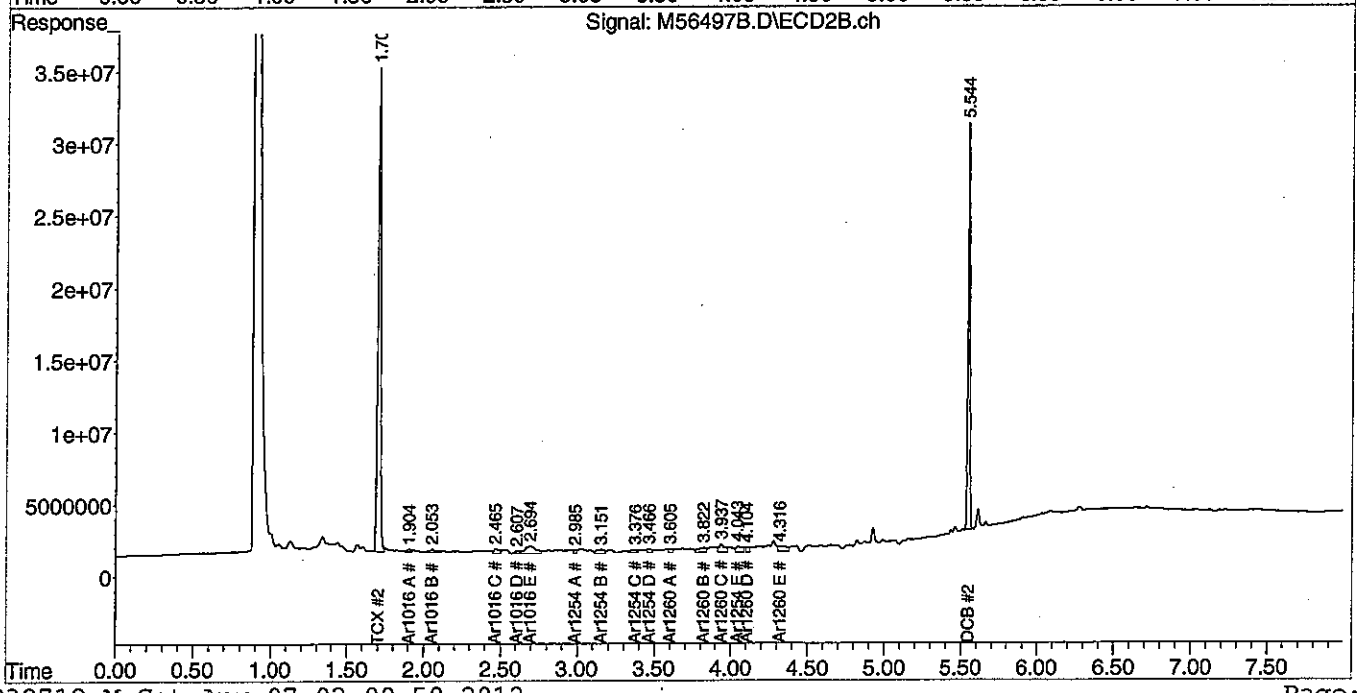
Authorized signature

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56497B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 1:16 pm
Operator : JK
Sample : B040512PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 07 02:09:50 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:20 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 9, 2012

SAMPLE DATA

Lab Sample ID:	72502-1
Matrix:	Solid
Percent Solid:	88
Dilution Factor:	1.1
Collection Date:	04/02/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-207

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	111	%
Decachlorobiphenyl	76	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

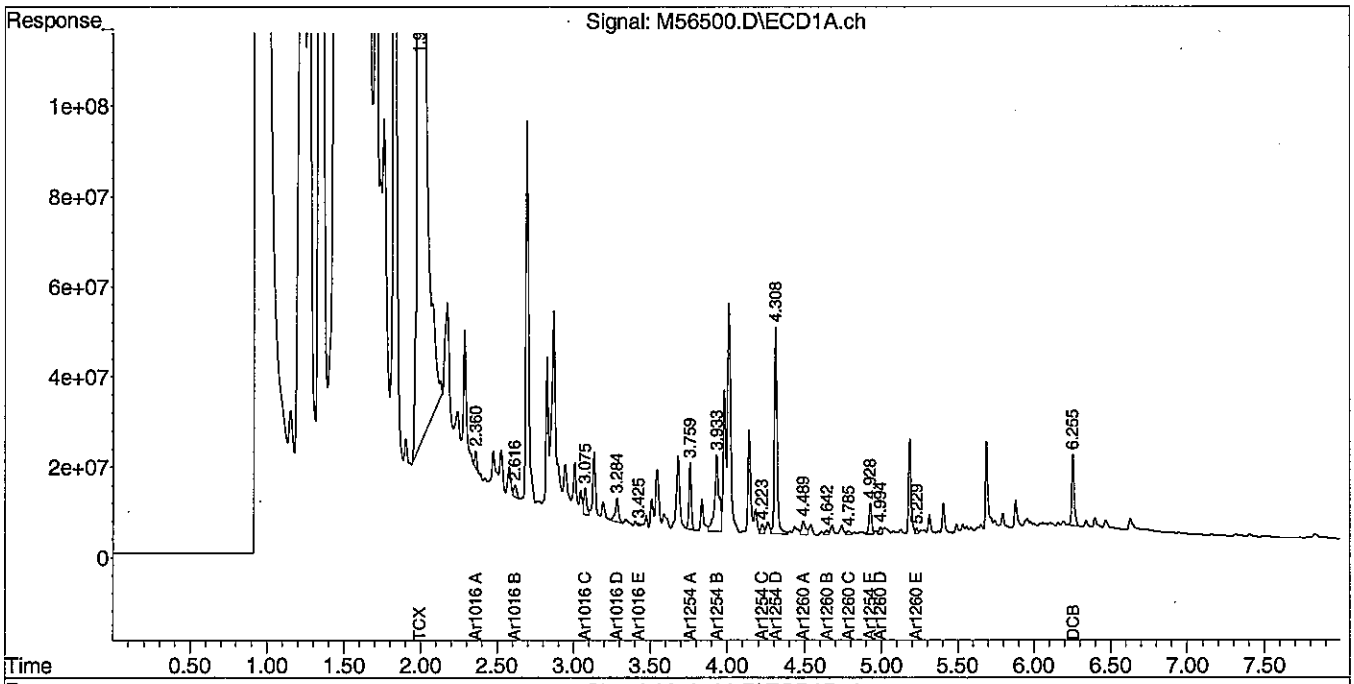
PCB Report

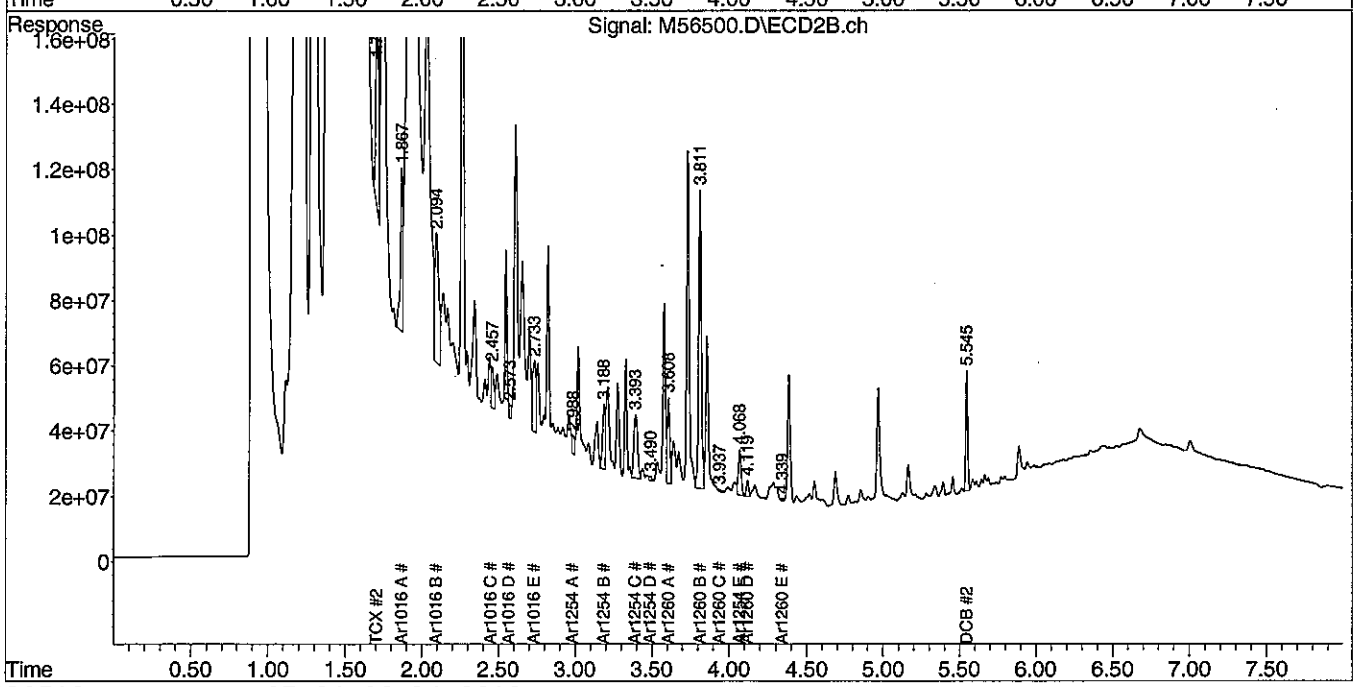
Authorized signature

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56500.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 1:50 pm
Operator : JK
Sample : 72502-1,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 07 04:01:41 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 9, 2012

SAMPLE DATA

Lab Sample ID:	72502-2
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1.0
Collection Date:	04/02/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-208

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**183**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	94	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72502
Sample: 72502-2,,A/C
Data File: M56501.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	183	160	13.2	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

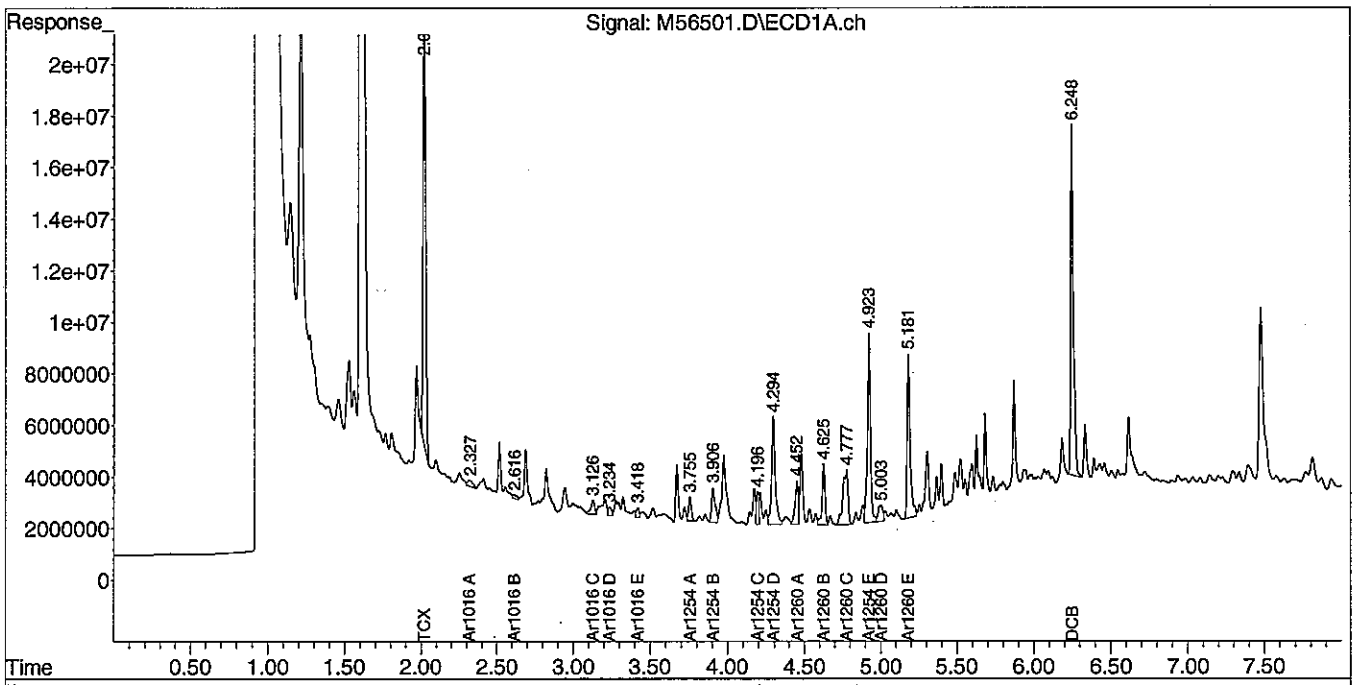
Comments: _____

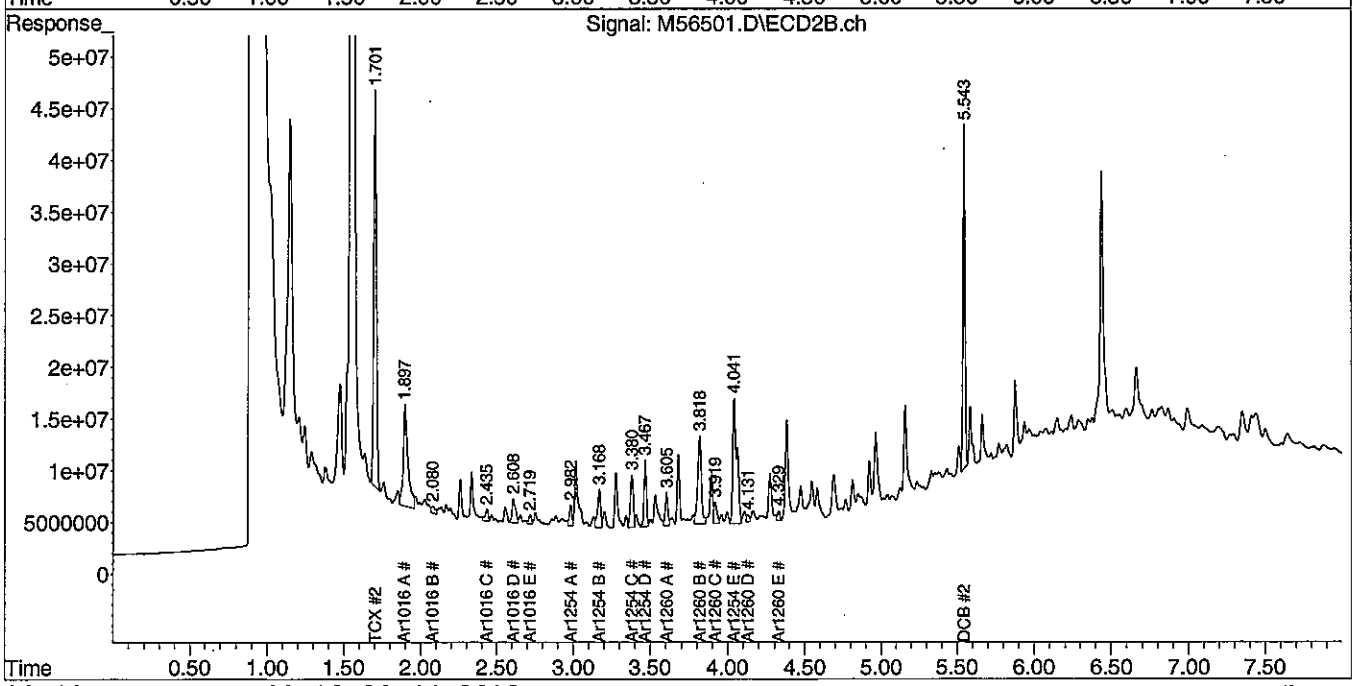
PCB FORM 10

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56501.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 2:00 pm
Operator : JK
Sample : 72502-2,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 09 10:29:35 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

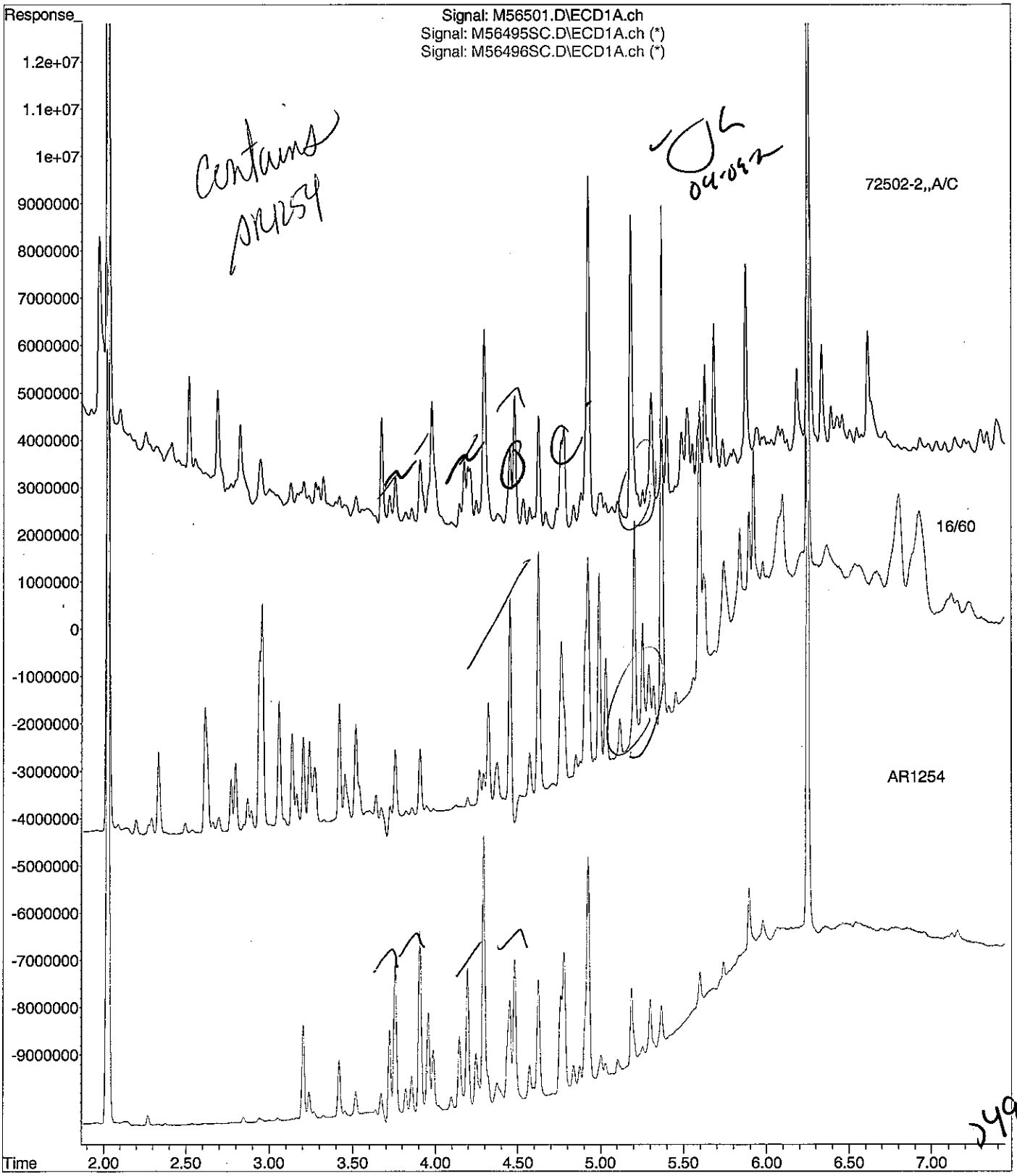
Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-M\M56501.D
Operator : JK
Acquired : 6 Apr 2012 2:00 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72502-2,,A/C
Misc Info : SOIL
Vial Number: 10

4/7/12



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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 9, 2012

SAMPLE DATA

Lab Sample ID:	72502-3
Matrix:	Solid
Percent Solid:	92
Dilution Factor:	1.0
Collection Date:	04/02/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-209

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	105	%
Decachlorobiphenyl	81	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

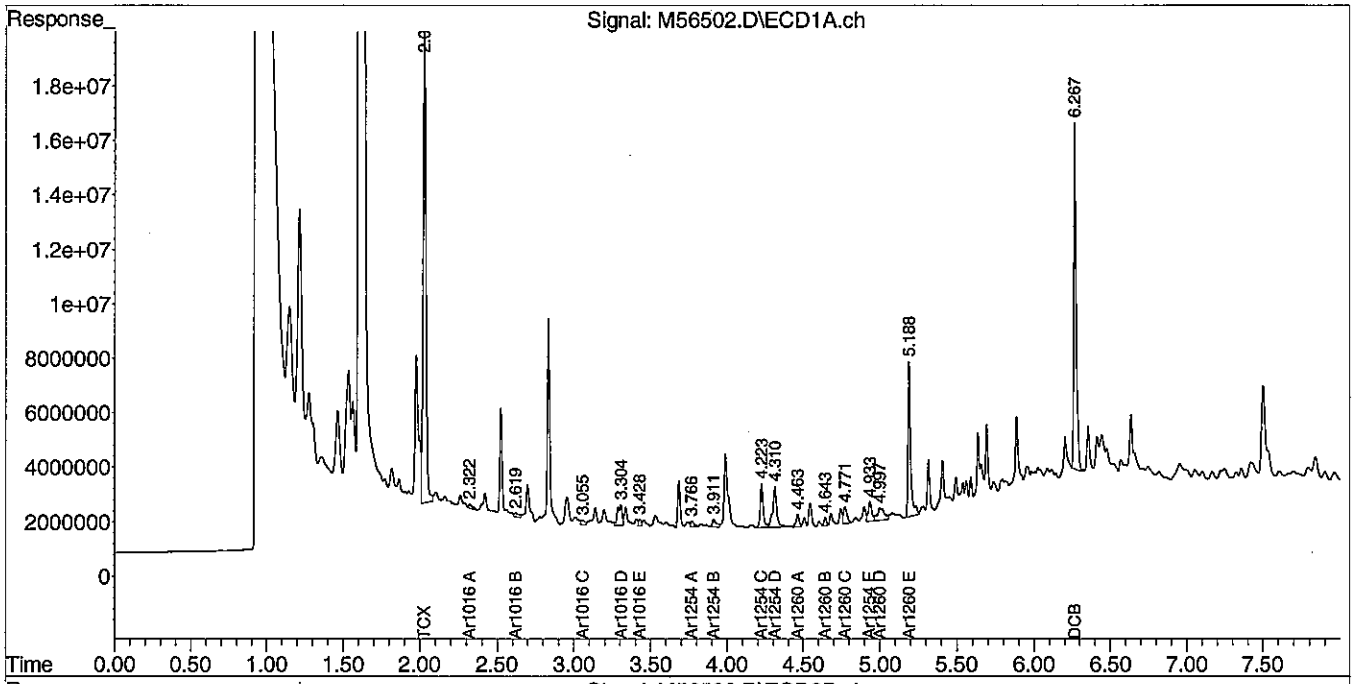
PCB Report

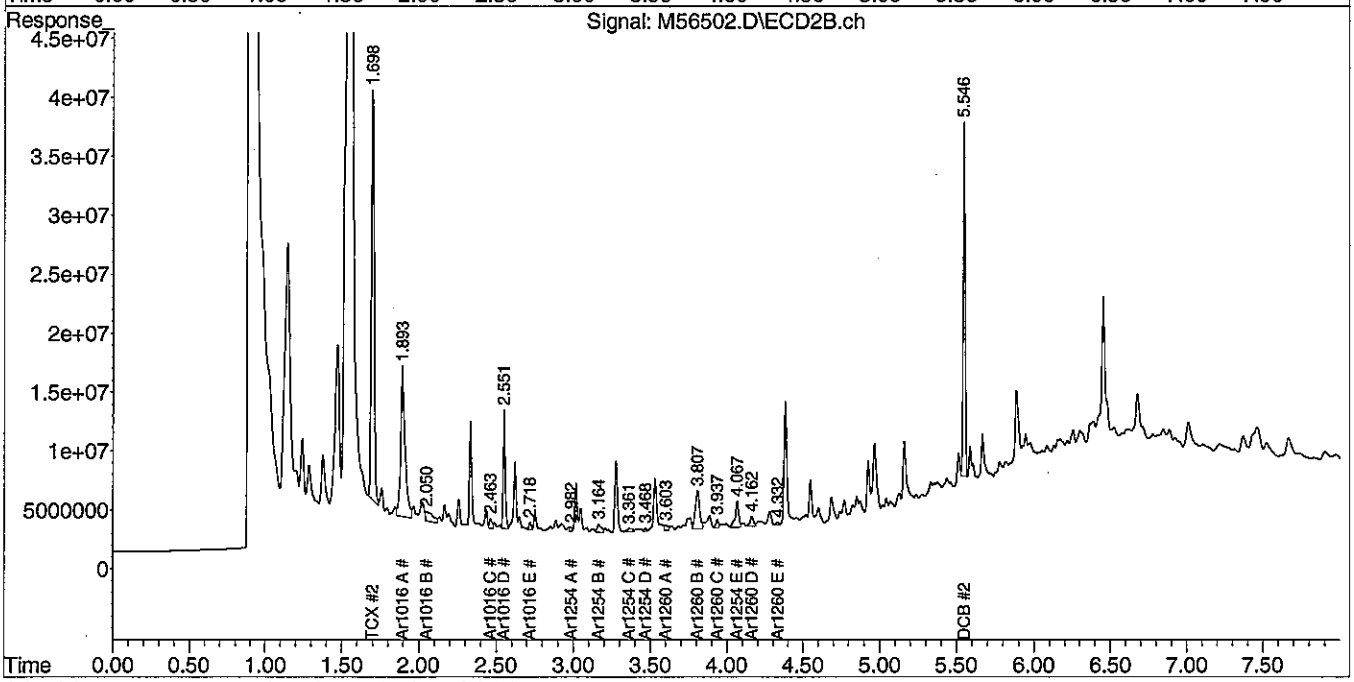
Authorized signature

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56502.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 2:24 pm
Operator : JK
Sample : 72502-3,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 07 05:48:30 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 9, 2012

SAMPLE DATA

Lab Sample ID:	72502-4
Matrix:	Solid
Percent Solid:	87
Dilution Factor:	1.2
Collection Date:	04/02/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-210

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	40	U
PCB-1221	40	U
PCB-1232	40	U
PCB-1242	40	U
PCB-1248	40	U
PCB-1254	40	**671**
PCB-1260	40	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	122	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72502
Sample: 72502-4,,A/C
Data File: M56503.D
Dilution Factor: 1.2

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	671	551	19.6	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

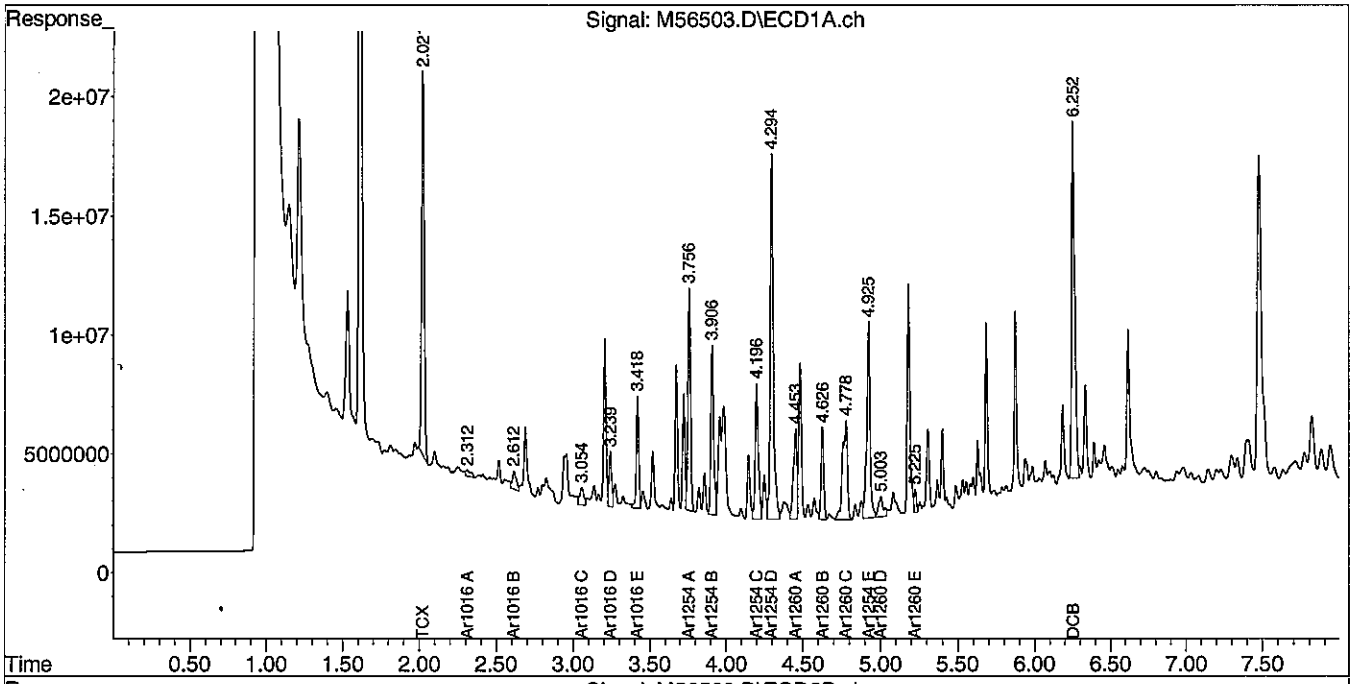
Comments: _____

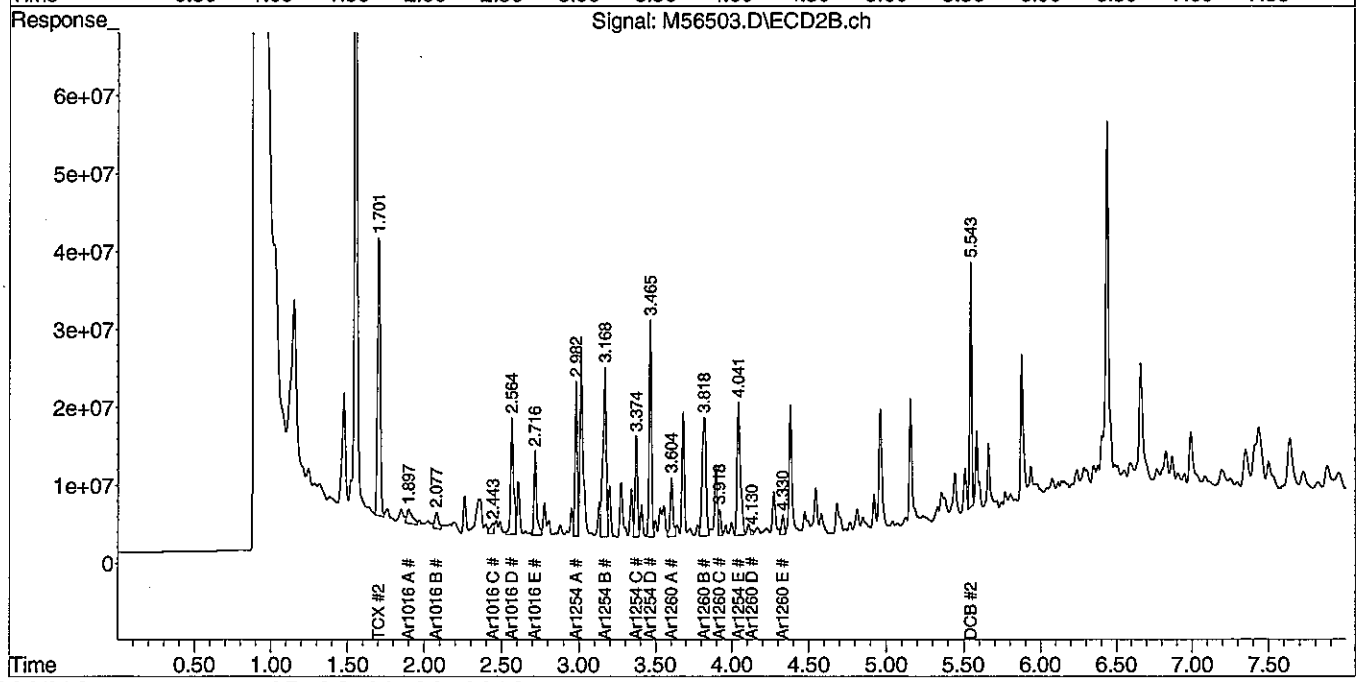
PCB FORM 10

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56503.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 2:34 pm
Operator : JK
Sample : 72502-4,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

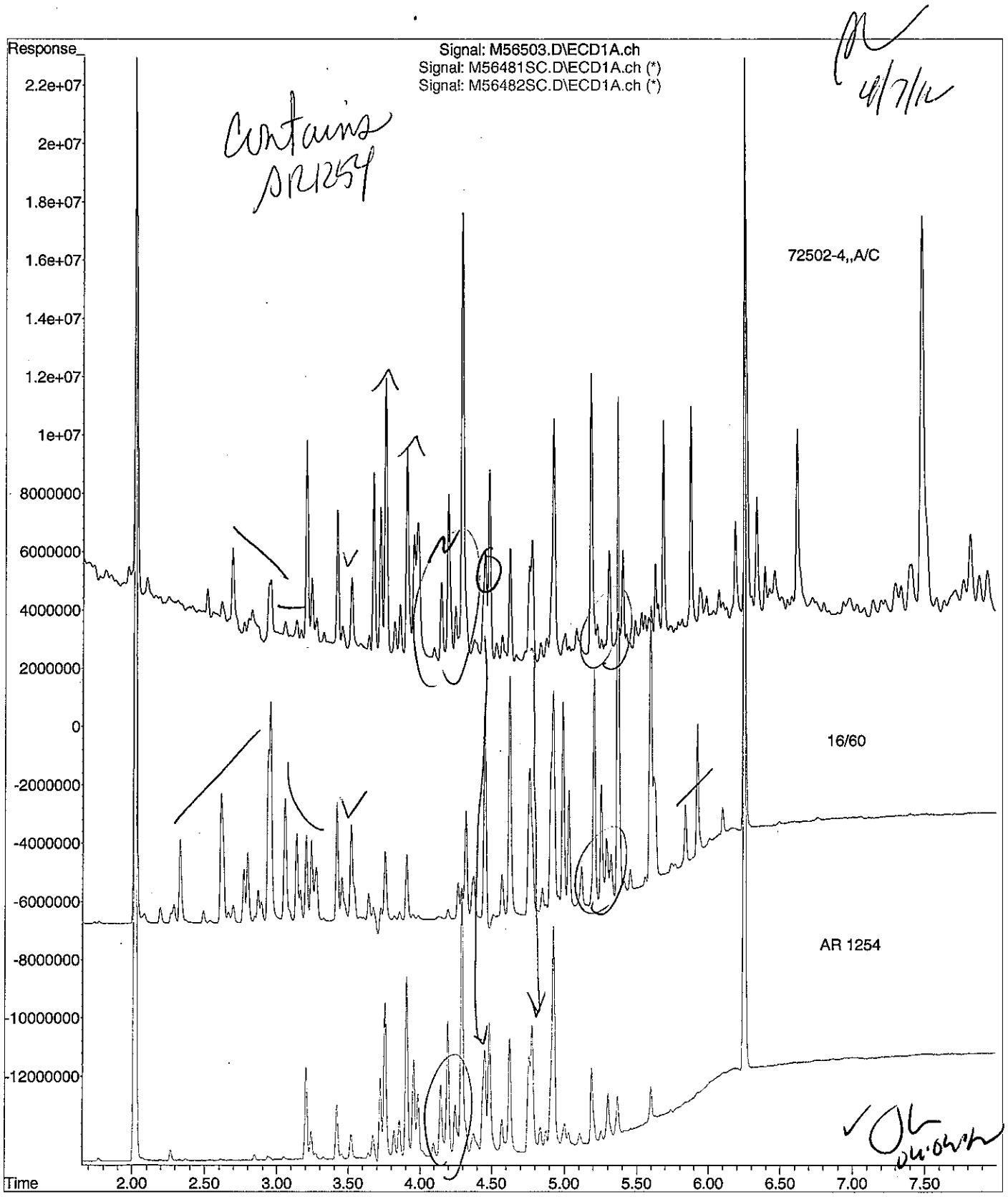
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 07 05:48:59 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-M\M56503.D
Operator : JK
Acquired : 6 Apr 2012 2:34 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72502-4,,A/C
Misc Info : SOIL
Vial Number: 12



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April 9, 2012

SAMPLE DATA

Lab Sample ID:	72502-5
Matrix:	Solid
Percent Solid:	90
Dilution Factor:	1.1
Collection Date:	04/02/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-211

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	**193**
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	62	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72502
Sample: 72502-5,,A/C
Data File: M56504.D
Dilution Factor: 1.1

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	193	135	35.4	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

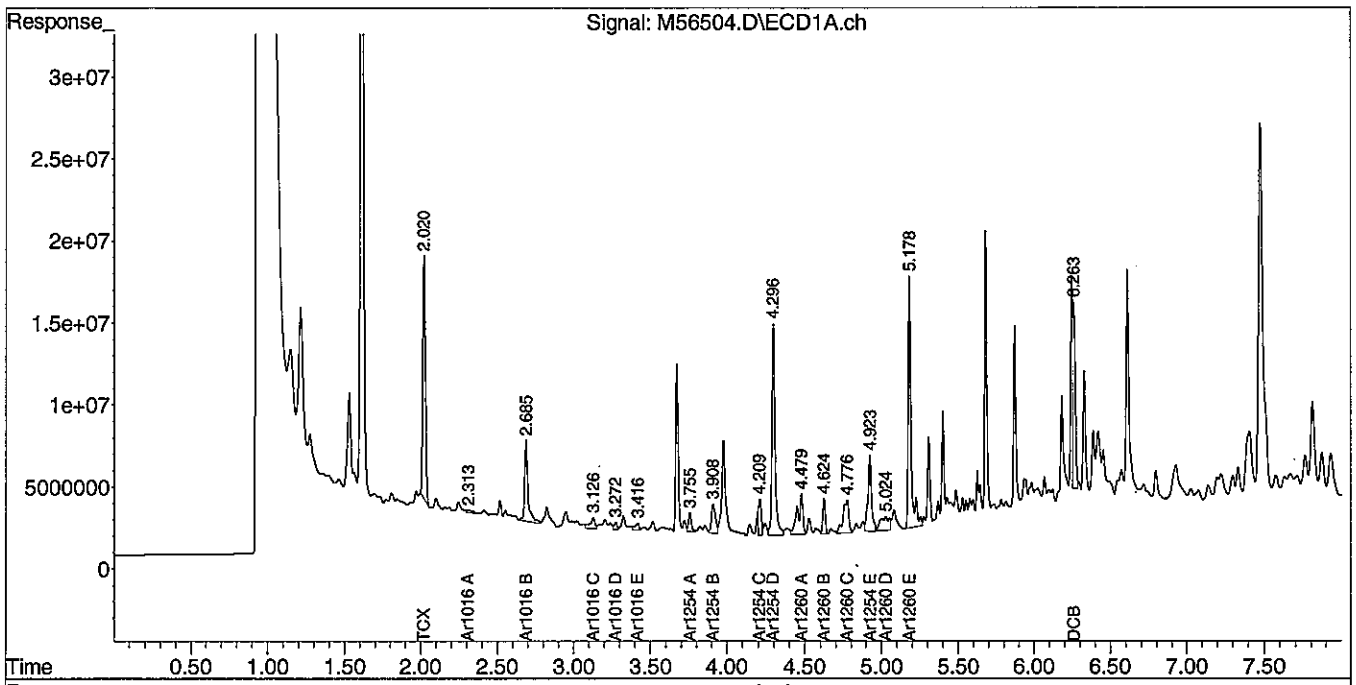
Comments: _____

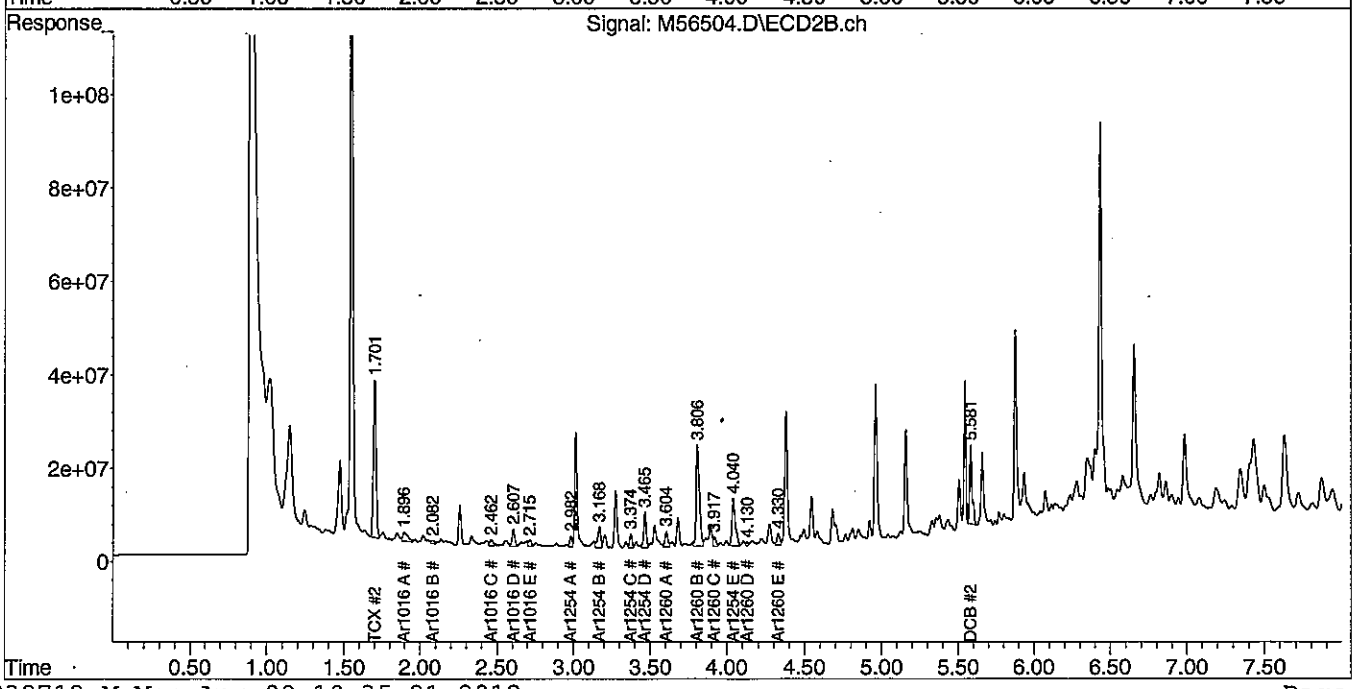
PCB FORM 10

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56504.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 2:44 pm
Operator : JK
Sample : 72502-5,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 09 10:35:09 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

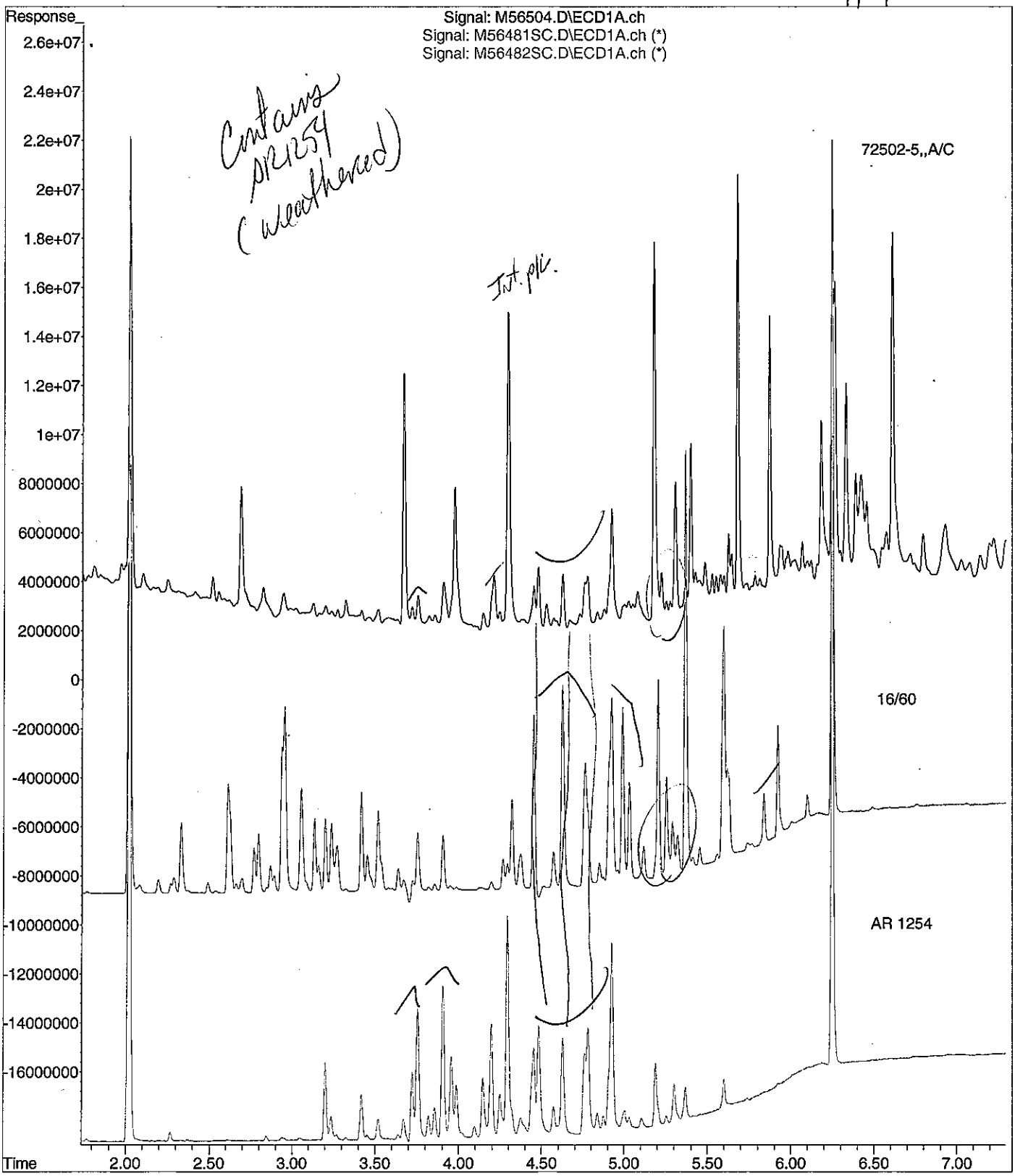
Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-M\M56504.D
Operator : JK
Acquired : 6 Apr 2012 2:44 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72502-5,,A/C
Misc Info : SOIL
Vial Number: 13

4/7/12



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April 9, 2012

SAMPLE DATA

Lab Sample ID:	72502-6
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1.1
Collection Date:	04/02/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-212

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	74	%
Decachlorobiphenyl	84	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

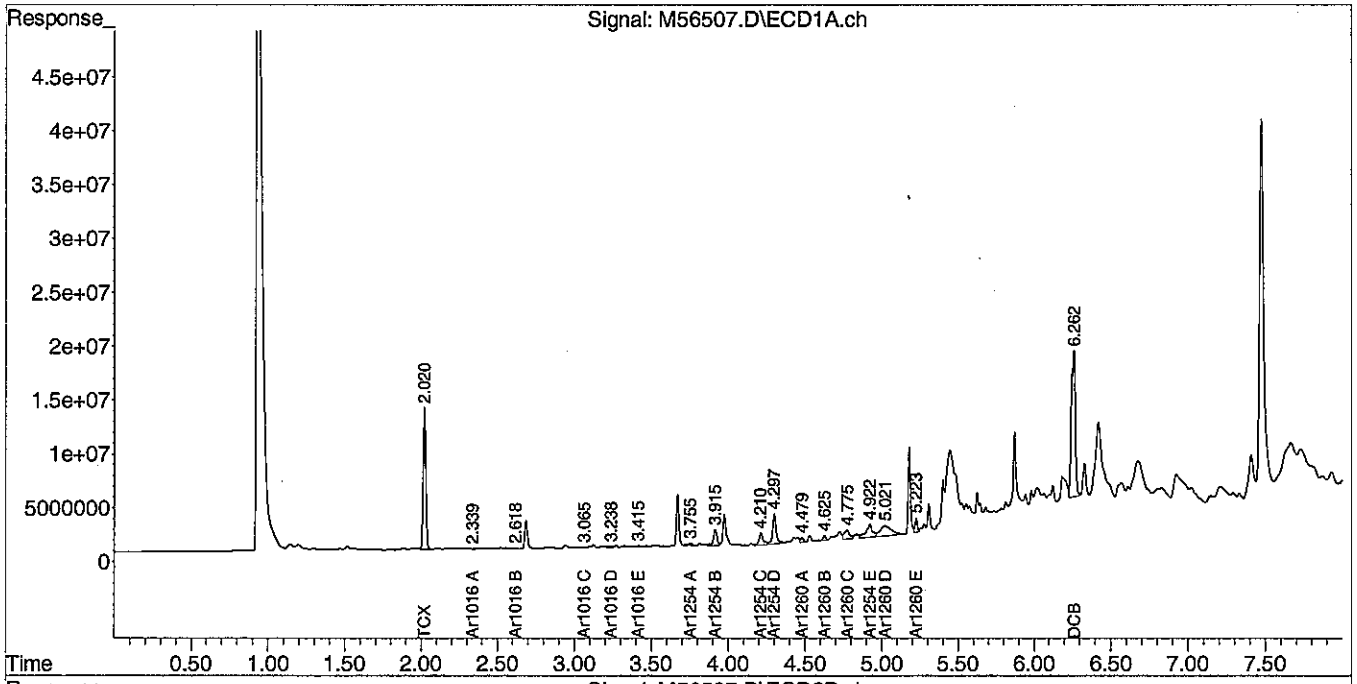
PCB Report

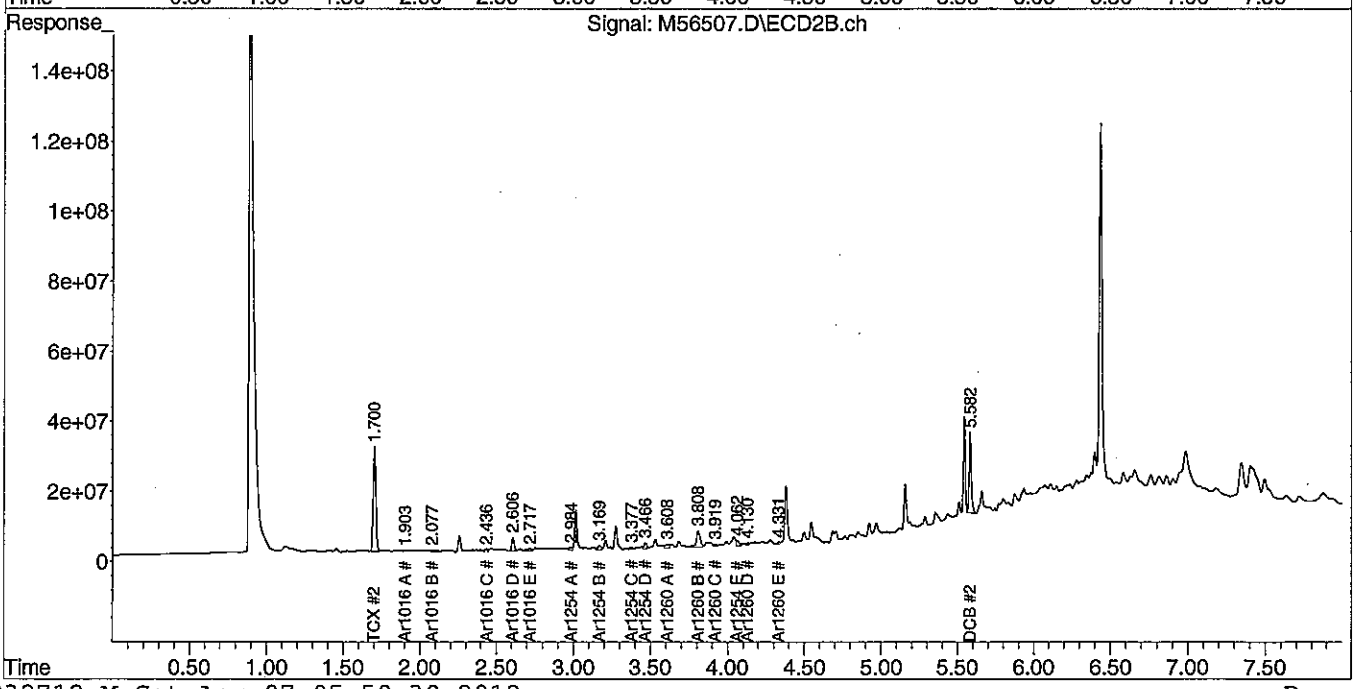
Authorized signature

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56507.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 3:14 pm
Operator : JK
Sample : 72502-6,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 07 05:50:23 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 9, 2012

SAMPLE DATA

Lab Sample ID:	72502-7
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1.0
Collection Date:	04/03/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-213

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	84	%
Decachlorobiphenyl	118	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

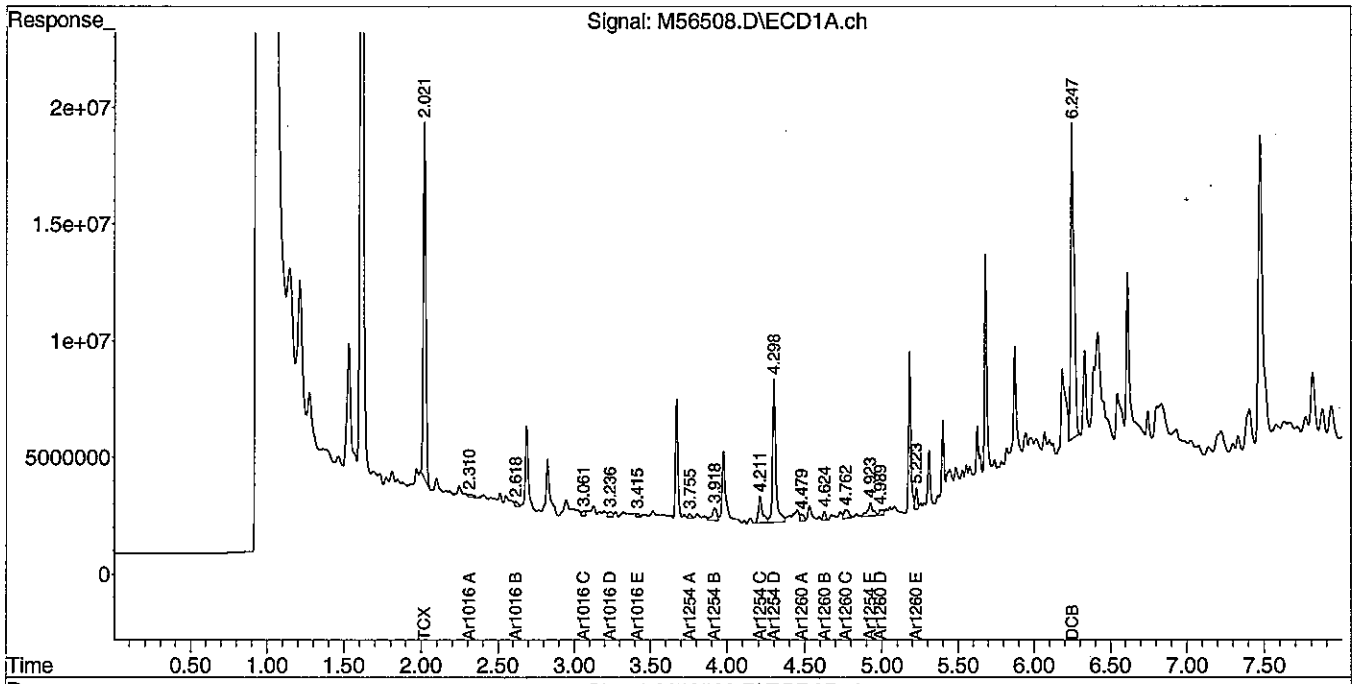
PCB Report

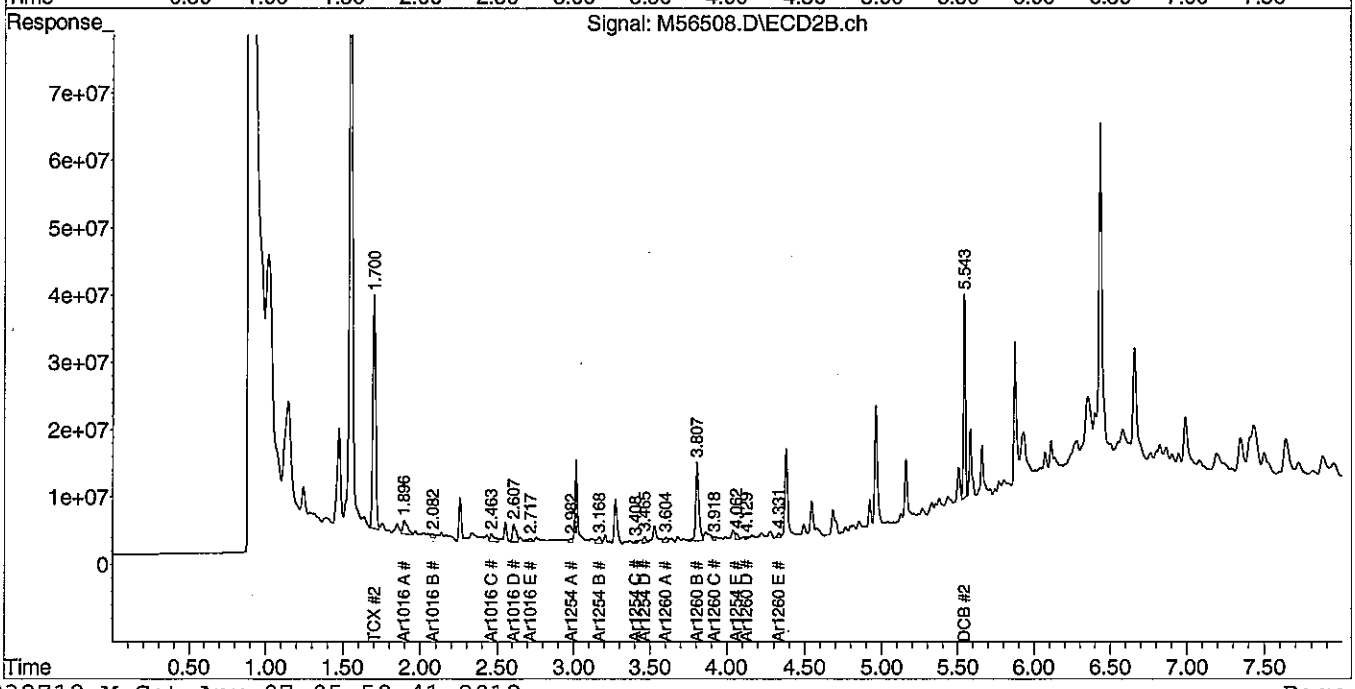
Authorized signature

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56508.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 3:24 pm
Operator : JK
Sample : 72502-7,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 07 05:51:00 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72502-8
Matrix:	Solid
Percent Solid:	94
Dilution Factor:	1.0
Collection Date:	04/03/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-214

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	75	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

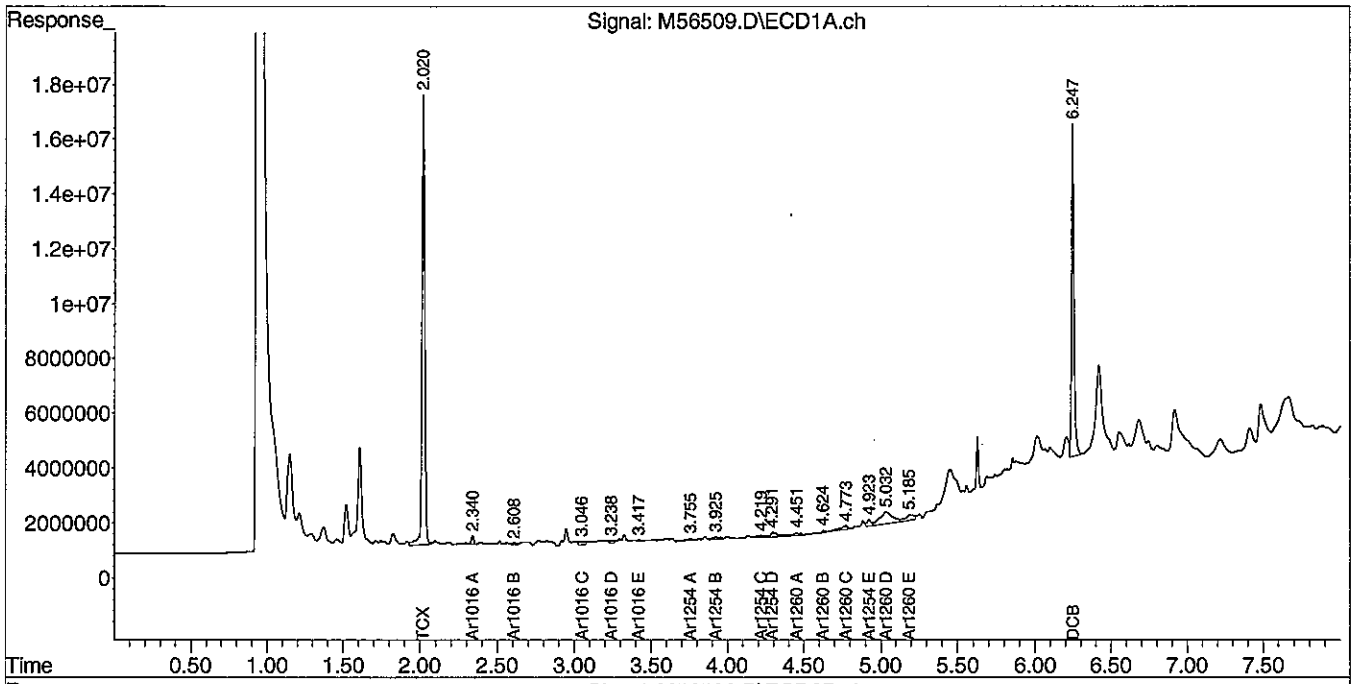
PCB Report

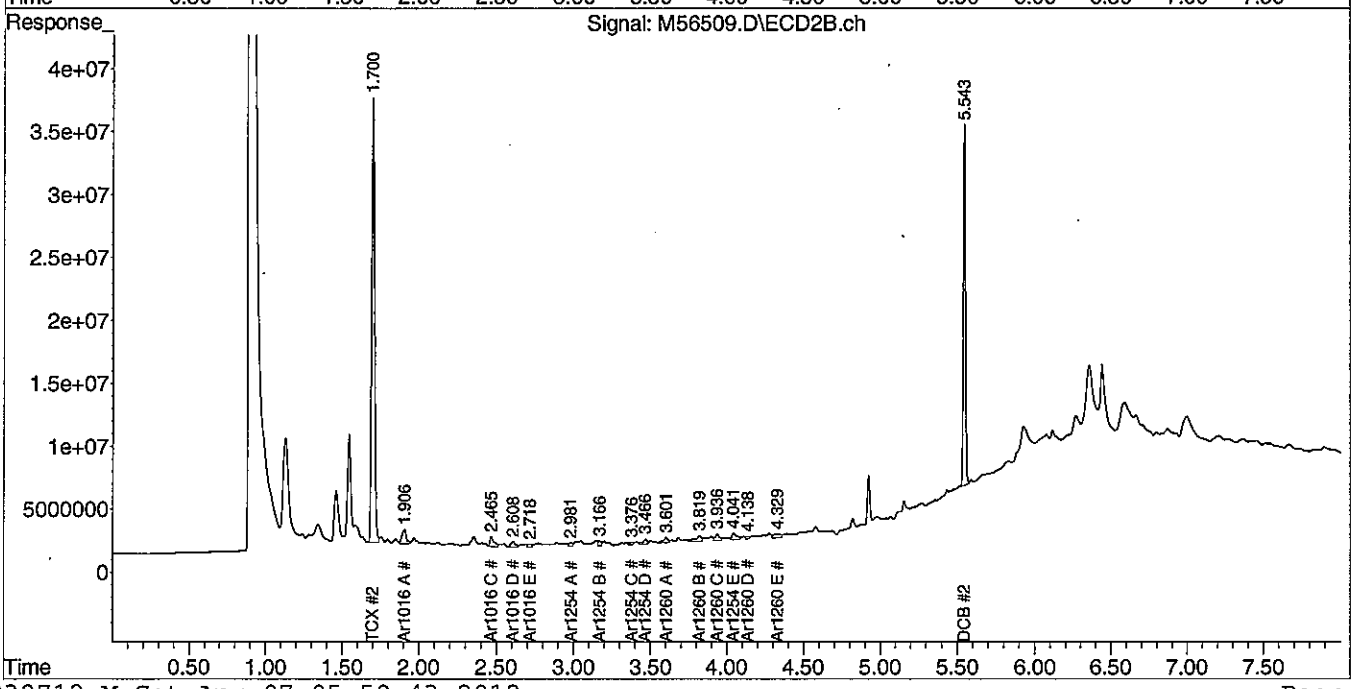
Authorized signature

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56509.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 3:34 pm
Operator : JK
Sample : 72502-8,,A/C
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 07 05:51:26 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 9, 2012

SAMPLE DATA

Lab Sample ID:	72502-9
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.0
Collection Date:	04/03/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-215

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**39**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	86	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72502
Sample: 72502-9,,A/C
Data File: M56510.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	39	37	5.4	

Column to be used to flag RPD values greater than QC limit of 40%

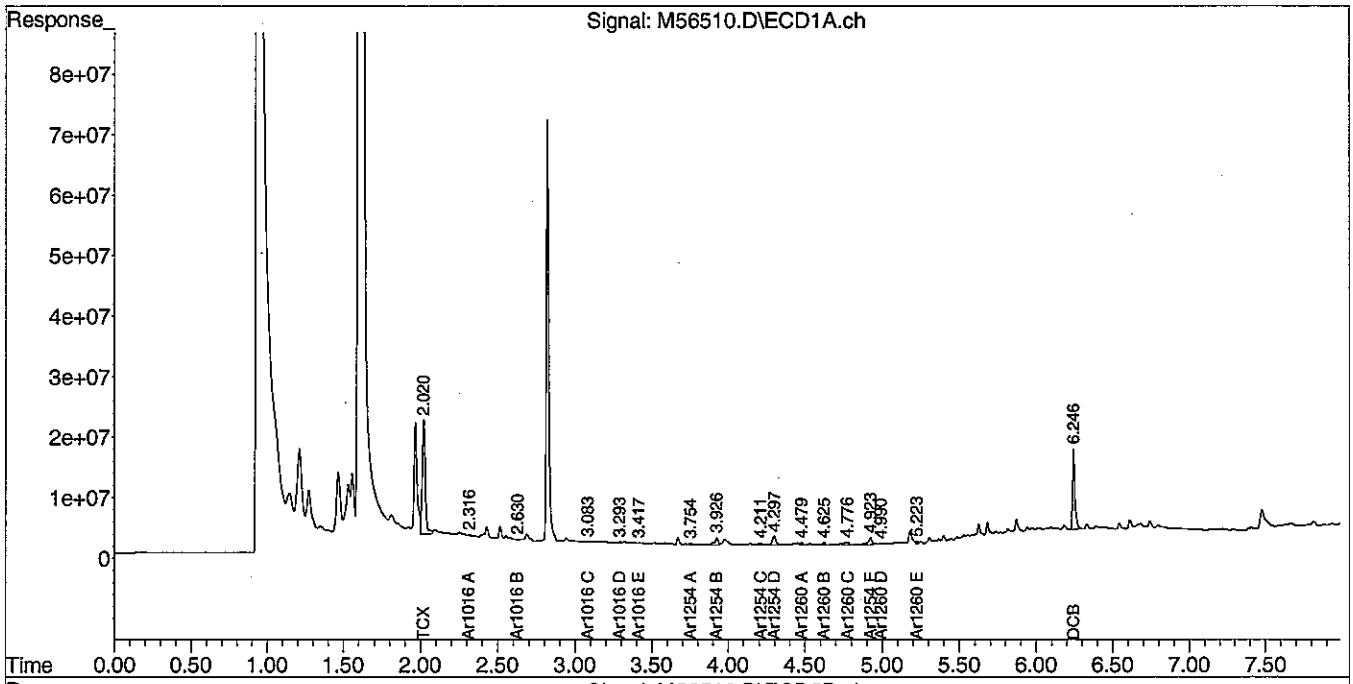
* Values outside QC limits

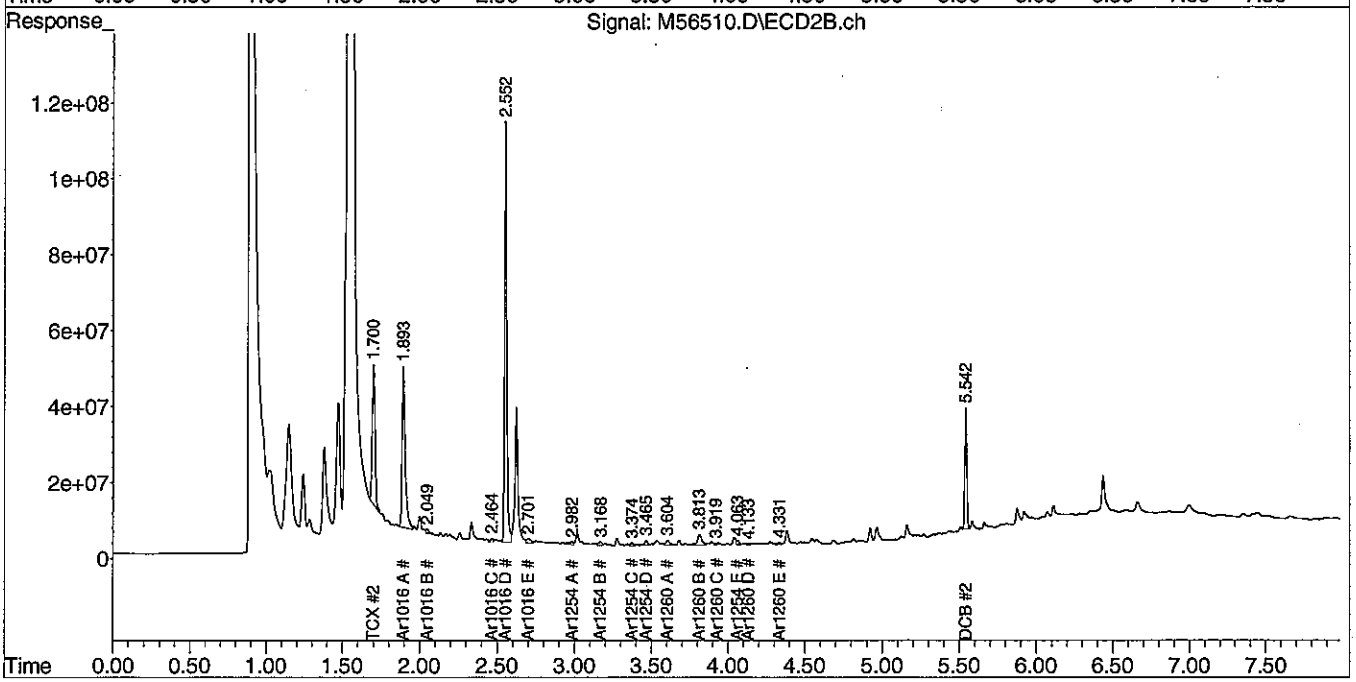
Comments: _____

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56510.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 3:44 pm
Operator : JK
Sample : 72502-9,,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

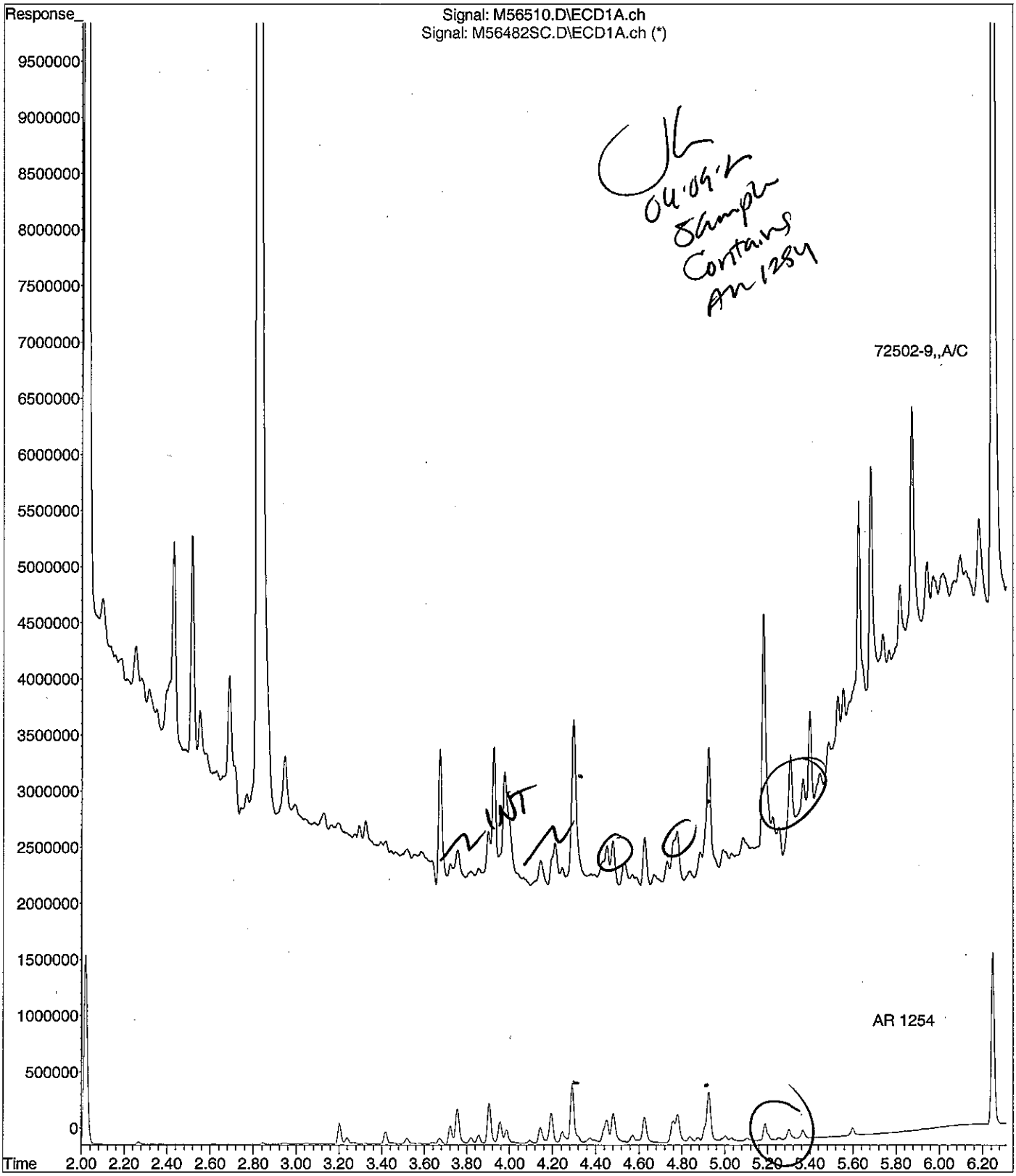
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 07 05:51:49 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-M\M56510.D
Operator : JK
Acquired : 6 Apr 2012 3:44 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72502-9,,A/C
Misc Info : SOIL
Vial Number: 19



J912

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April 9, 2012

SAMPLE DATA

Lab Sample ID:	72502-10
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1.1
Collection Date:	04/03/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/06/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-216

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	**54**
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	112	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72502
Sample: 72502-10,,A/C
Data File: M56511.D
Dilution Factor: 1.1

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	54	50	7.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

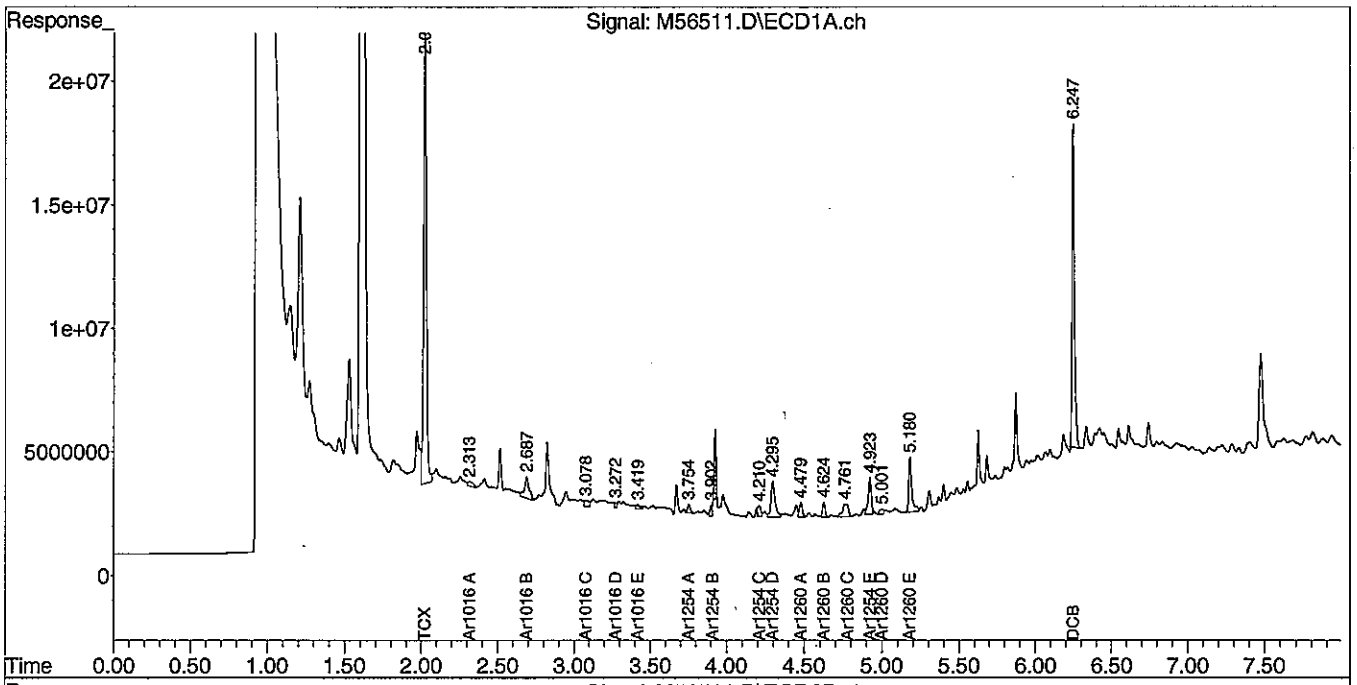
Comments: _____

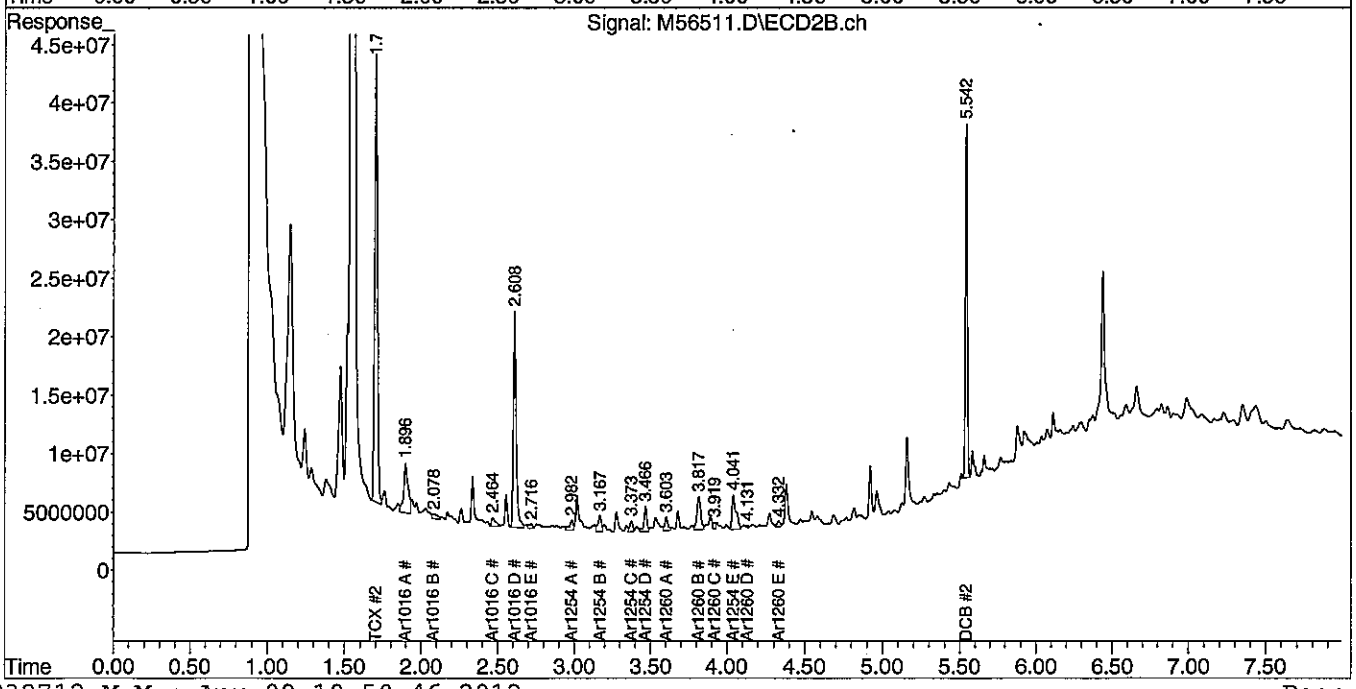
PCB FORM 10

Data Path : C:\msdchem\1\DATA\040612-M\
Data File : M56511.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 6 Apr 2012 3:54 pm
Operator : JK
Sample : 72502-10,,A/C
Misc : SOIL
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 09 10:50:32 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Thu Apr 05 05:19:19 2012
Response via : Initial Calibration
Integrator: ChemStation

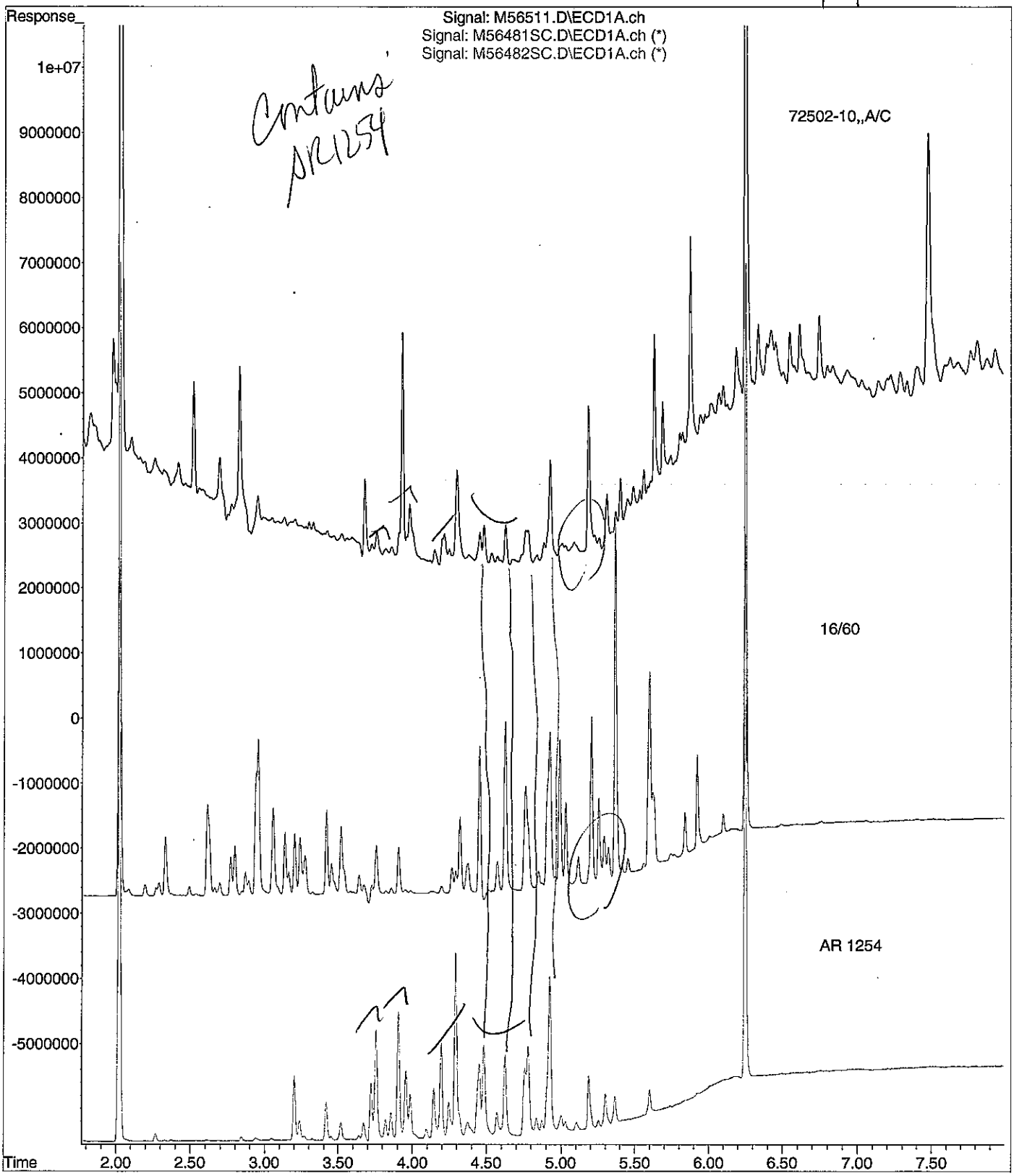
Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-M\M56511.D
Operator : JK
Acquired : 6 Apr 2012 3:54 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72502-10,,A/C
Misc Info : SOIL
Vial Number: 20

4/7/12



JK 04.04.12

analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72502

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B040512PSOX,,A/C	85		64		78		59	
L040512PSOX,,A/C	87		67		81		61	
LD040512PSOX,,A/C	89		70		83		63	
72502-1,,A/C	I		99		111		76	
72502-2,,A/C	94		94		88		70	
72502-3,,A/C	105		81		82		62	
72502-4,,A/C	90		122		83		65	
72502-5,,A/C	83		62		80		45	
72502-5,MS,,A/C	77		130		76		92	
72502-5,MSD,,A/C	110		152	*	78		144	*
72502-6,,A/C	74		84		70		53	
72502-7,,A/C	84		118		81		63	
72502-8,,A/C	96		75		84		60	
72502-9,,A/C	94		86		83		69	
72502-10,,A/C	112		79		90		62	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72502

Non-spiked sample: B040512PSOX,,A/C

Spike: L040512PSOX,,A/C

Spike duplicate: LD040512PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	168	84		172	86		2.7	
PCB 1260	200	200	60	130	30	0	158	79		163	81		2.6	
PCB 1016 #2	200	200	65	140	30	0	163	82		166	83		1.6	
PCB 1260 #2	200	200	60	130	30	0	157	78		159	80		1.4	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72502

Non-spiked sample: 72502-5,,A/C

Spike: 72502-5,MS,,A/C

Spike duplicate: 72502-5,MSD,,A/C

COMPOUND	MS SPIKE ADDED (ug/kg)	MSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	219	207	65	140	30	0	217	99		240	116		10.0	
PCB 1260	219	207	60	130	30	0	275	126		338	163	*	20.6	
PCB 1016 #2	219	207	65	140	30	0	244	111		352	170	*	36.4	*
PCB 1260 #2	219	207	60	130	30	0	322	147	*	216	104		39.5	*

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments:

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 1.7°C
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: 4/5/12

Project Name: Umaine - Stewart Commons
Project#: 222822.
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis Followed by Preservation Code
Preservation Code: Please fill in preservation code here

Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract; GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VBS-~~213~~ 207	4/12/12	15:45					B						S	1		72502-1
UMSC-VBS-208	4/12/12	15:50					B						S	1		2
UMSC-VBS-209	4/12/12	15:55					B						S	1		3
UMSC-VBS-210	4/12/12	16:00					B						S	1		4
UMSC-VBS-211	4/12/12	16:10					B						S	1		5
UMSC-VBS-212	4/12/12	16:15					B						S	1		6
UMSC-VBS-213	4/13/12	14:20					B						S	1		7
UMSC-VBS-214	4/13/12	14:25					B						S	1		8
UMSC-VBS-215	4/13/12	14:30					B						S	1		9
UMSC-VBS-216	4/13/12	14:35					B						S	1		10

Email Results to: awallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

*please report data on Monday 4/9 in the morning if possible!

Turnaround Time (TAT)
- [ ] 24 Hours*
- [x] 48 Hours* AW
- [ ] 72 Hours*
- [x] 5 Days* AW
- [ ] 10 Days
*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply

Report Type:
- [ ] MCP*
- [x] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI
Other:

State Standard: (eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: [signature]	Date: 4/5/12	Time: 12:00	Received By: [signature]
Relinquished By: [signature]	Date: 4/5/12	Time: 1430	Received By: [signature]
Relinquished By:	Date:	Time:	Received By:

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72502 COOLER NUMBER: 277

CLIENT: W+C NUMBER OF COOLERS: 1

PROJECT: Umaine - Stewart

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): DW DATE COOLER RECEIVED/OPENED: 4.5.12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N/A

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 1.7°C

B. Log-In: Date samples were logged in: 4.5.12 By: JW

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were VOA samples absent of greater than pea-sized bubbles? Y N/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): _____ Date: 4/5/12

analytics environmental laboratory LLC

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May 9, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72503 Revision 1
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Revision 1: This report has been revised to correct the typographical error on the station ID for sample 72503-10. It has been corrected to "UMSC-VBC-220".

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
    Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72503

Revision: Rev. 1

Re: UMaine-Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 05 April 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 05/09/2012

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analytics environmental laboratory LLC

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www.analyticslab.com

CLIENT: Woodard & Curran **REPORT NUMBER: 72503** **REV: Rev. 1**

PROJECT: UMaine-Stewart Commons (Project No: 222822)

Lab Number	Sample Date	Station Location	Analysis	Comments
72503-1	04/02/12	UMSC-VWG-201	EPA 8082 (PCBs only)	
72503-2	04/02/12	UMSC-VWG-202	EPA 8082 (PCBs only)	
72503-3	04/02/12	UMSC-VWG-203	EPA 8082 (PCBs only)	
72503-4	04/02/12	UMSC-VWG-204	EPA 8082 (PCBs only)	
72503-5	04/02/12	UMSC-VWG-205	EPA 8082 (PCBs only)	
72503-6	04/02/12	UMSC-VWG-206	EPA 8082 (PCBs only)	
72503-7	04/03/12	UMSC-VWM-217	EPA 8082 (PCBs only)	
72503-8	04/03/12	UMSC-VWM-218	EPA 8082 (PCBs only)	
72503-9	04/03/12	UMSC-VWM-219	EPA 8082 (PCBs only)	
72503-10	04/04/12	UMSC-VBC-220	EPA 8082 (PCBs only)	
72503-11	04/04/12	UMSC-VWM-221	EPA 8082 (PCBs only)	
72503-12	04/04/12	UMSC-VWM-222	EPA 8082 (PCBs only)	

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 11, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: Lab QC

Lab Sample ID: B040512PSOXW
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 04/05/12
Analysis Date: 04/07/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

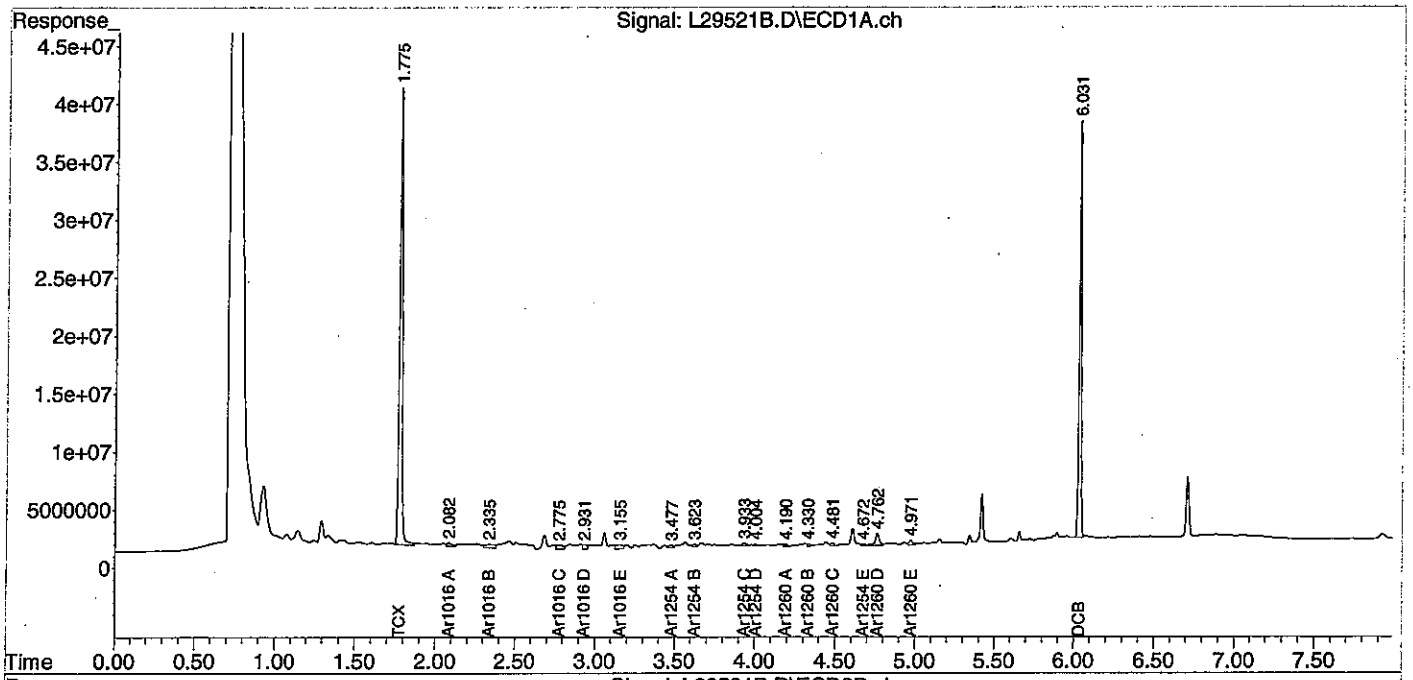
Authorized signature Jamura Lewis

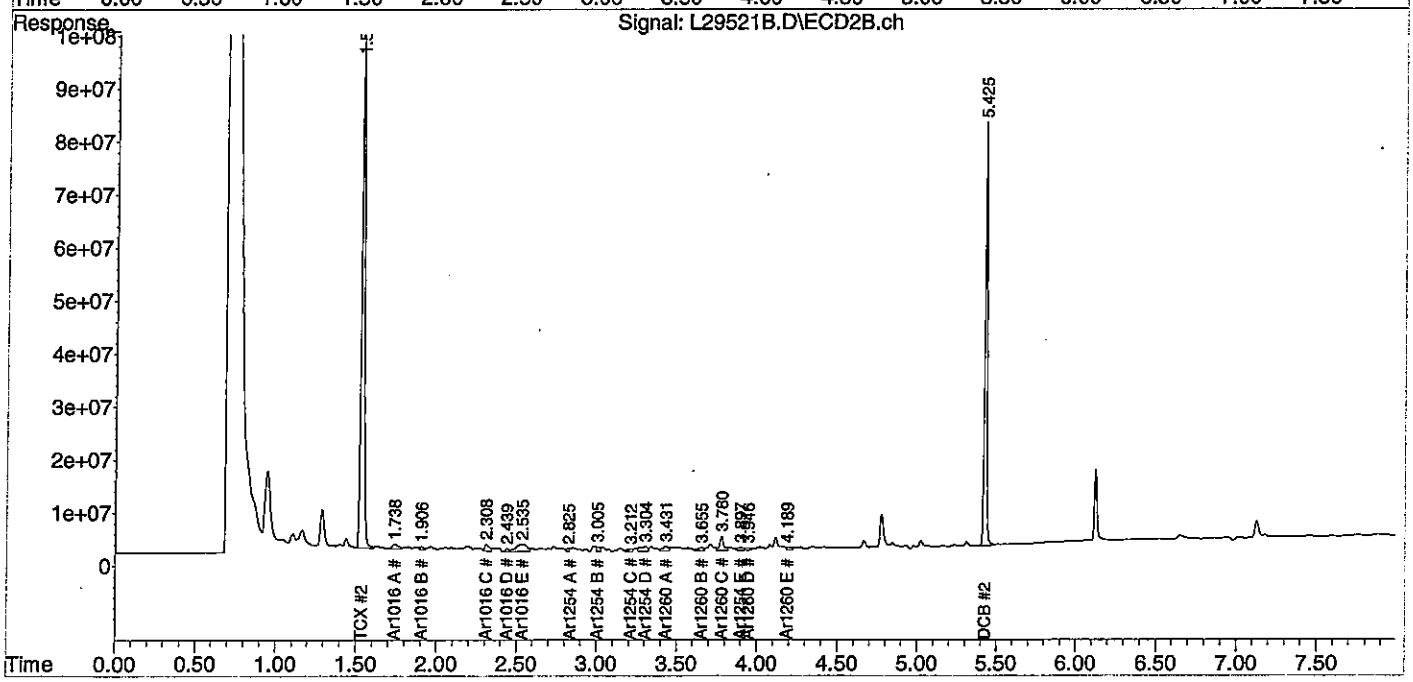
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29521B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 7:38 am
Operator : AR
Sample : B040512PSOXW,,A/C
Misc : SOIL
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 11:31:13 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:35 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 12, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: Lab QC

Lab Sample ID: B041012PW RR
Matrix: Aqueous
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 04/10/12
Analysis Date: 04/11/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L
PCB-1016	0.2	U
PCB-1221	0.2	U
PCB-1232	0.2	U
PCB-1242	0.2	U
PCB-1248	0.2	U
PCB-1254	0.2	U
PCB-1260	0.2	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

PCB Report

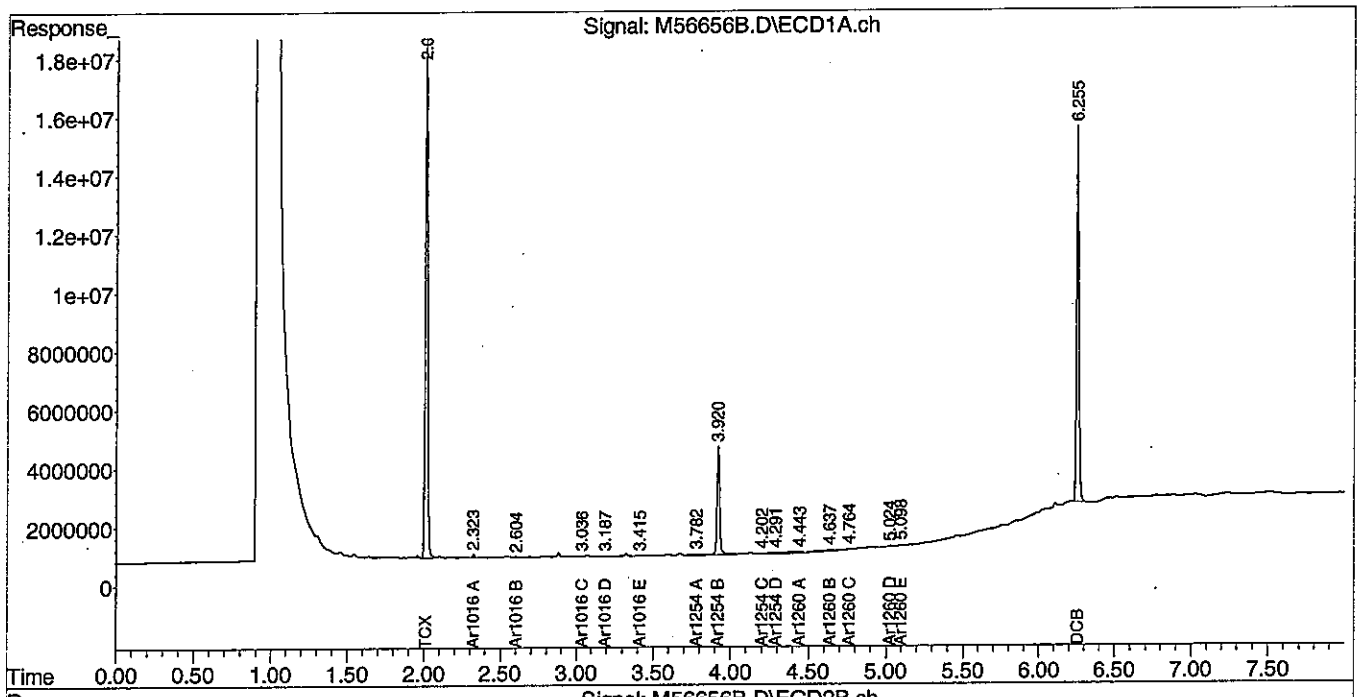
Authorized signature

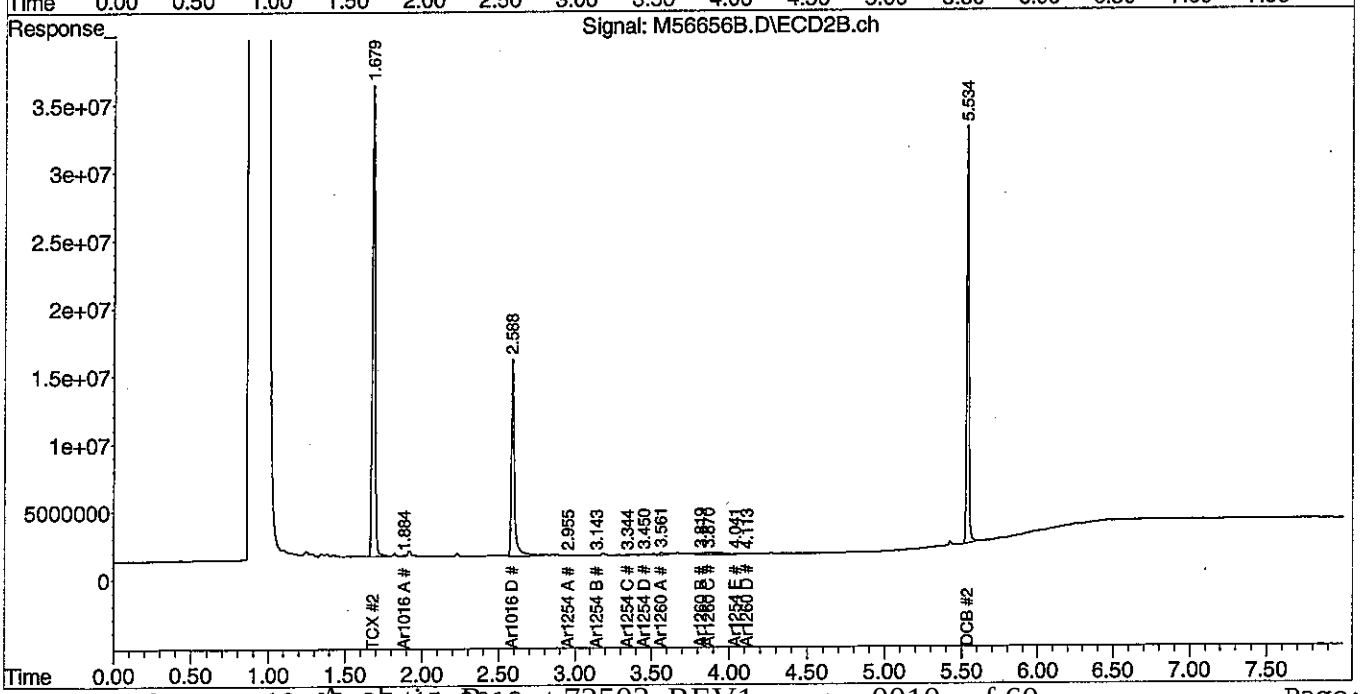
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\041112-M\
Data File : M56656B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Apr 2012 4:06 pm
Operator : JK
Sample : B041012PW,RR (~~Sig #1); B0471012PW,RR (Sig #2~~)
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:30:46 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:43 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 11, 2012

SAMPLE DATA

Lab Sample ID:	72503-1
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/02/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/07/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-201

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**6.0**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	82	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jenna Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503
Sample: 72503-1,,A/C
Data File: L29524.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	5.8	6.0	1.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

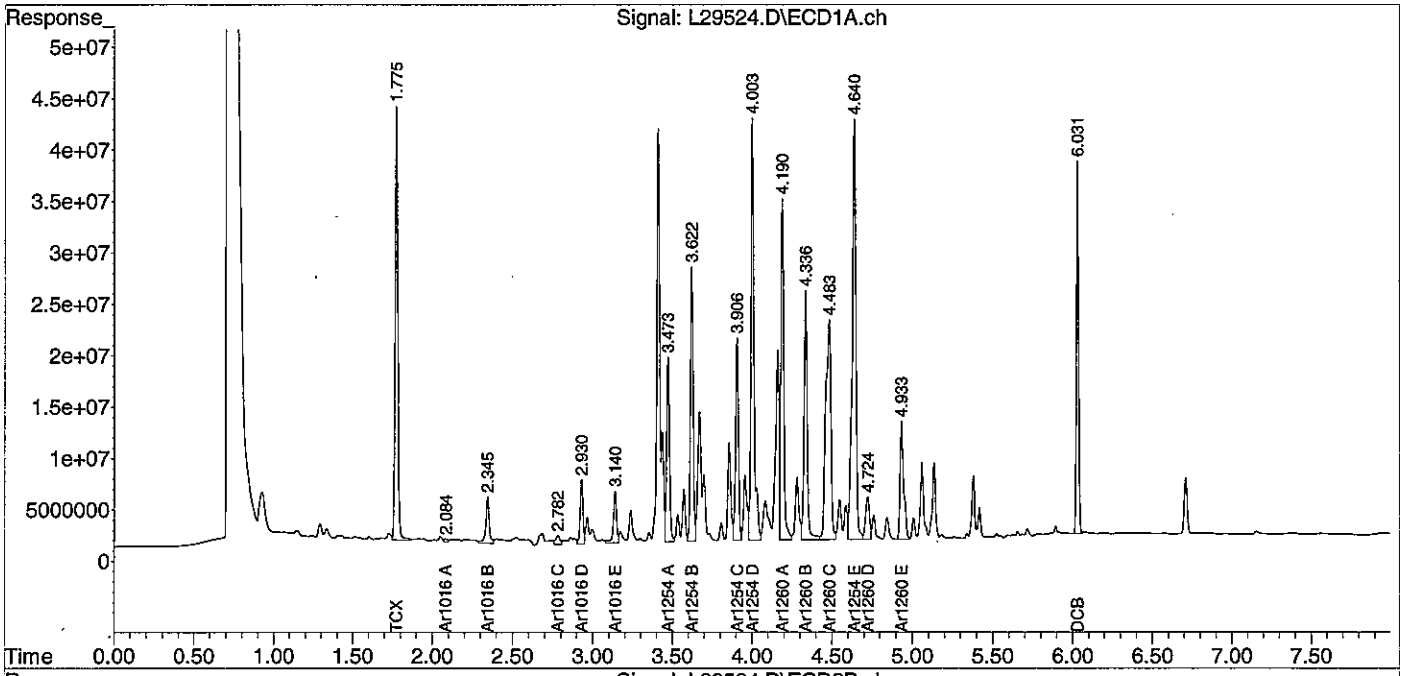
PCB FORM 10

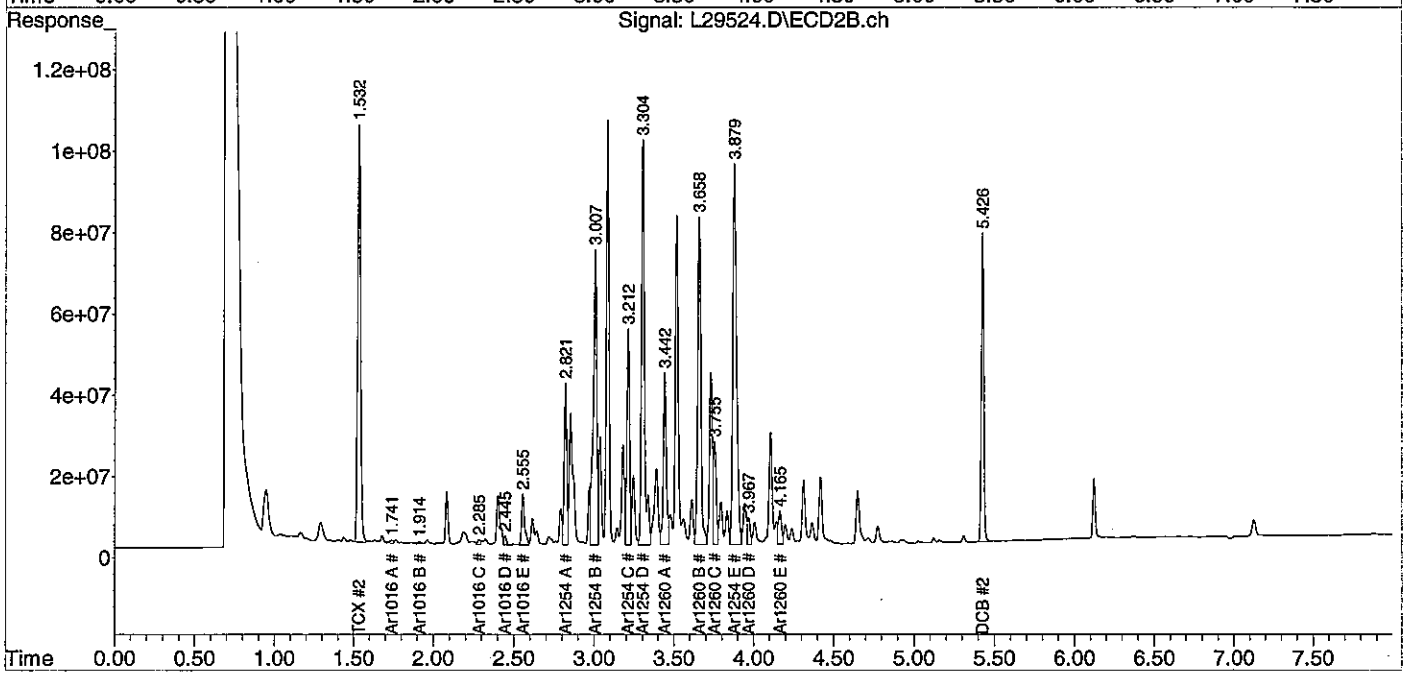
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29524.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 8:09 am
Operator : AR
Sample : 72503-1,,A/C
Misc : SOIL
ALS Vial : 39 Sample Multiplier: 1

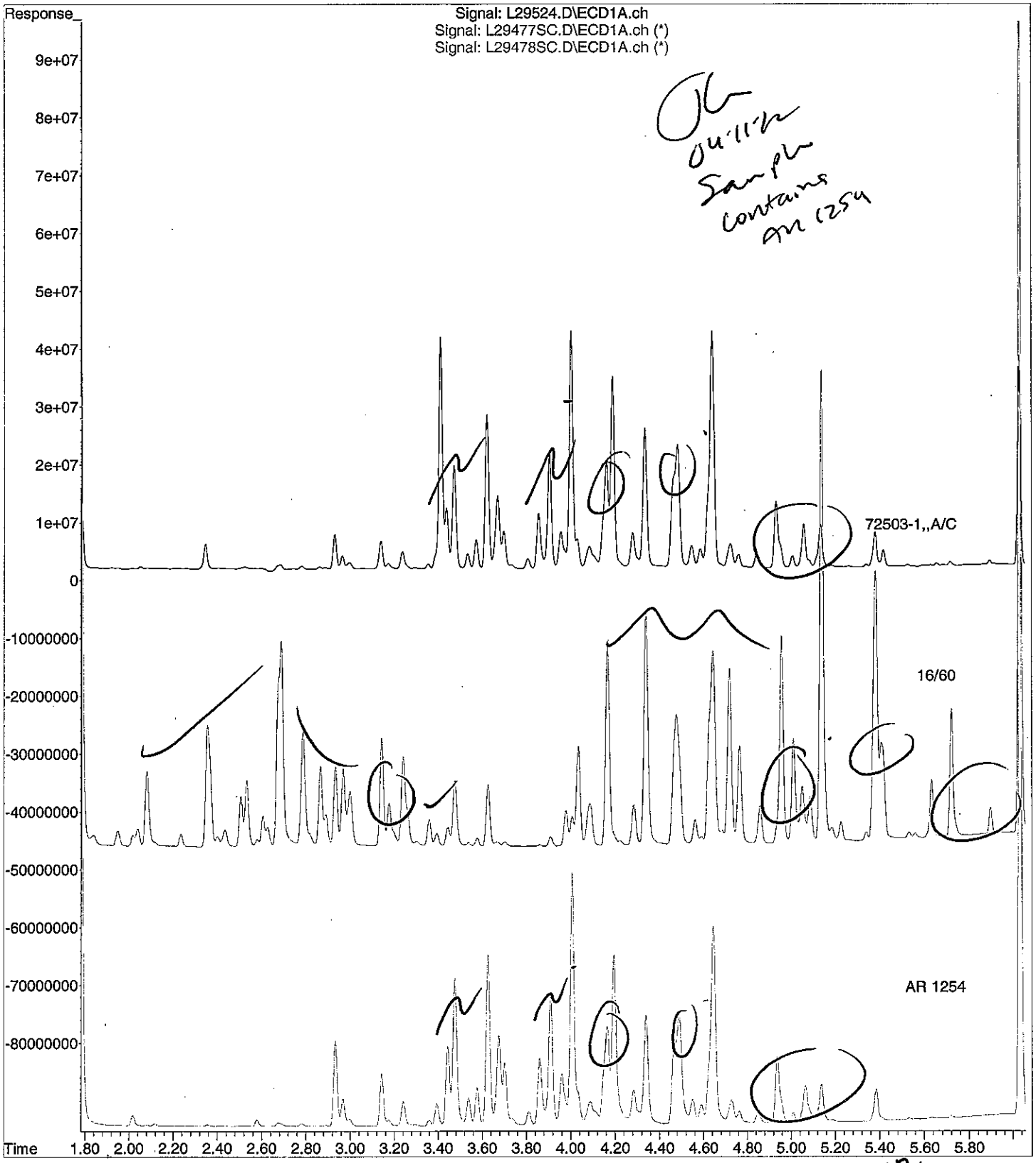
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 11:48:04 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-L\L29524.D
Operator : AR
Acquired : 7 Apr 2012 8:09 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72503-1,,A/C
Misc Info : SOIL
Vial Number: 39



JL 04.11.12 Sample contains AR 1254

JL 4.11.12

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April 11, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWG-202

Lab Sample ID: 72503-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 04/02/12
Lab Receipt Date: 04/05/12
Extraction Date: 04/05/12
Analysis Date: 04/07/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.6**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Leung

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503
Sample: 72503-2,,A/C
Data File: L29525.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.6	0.6	2.6	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

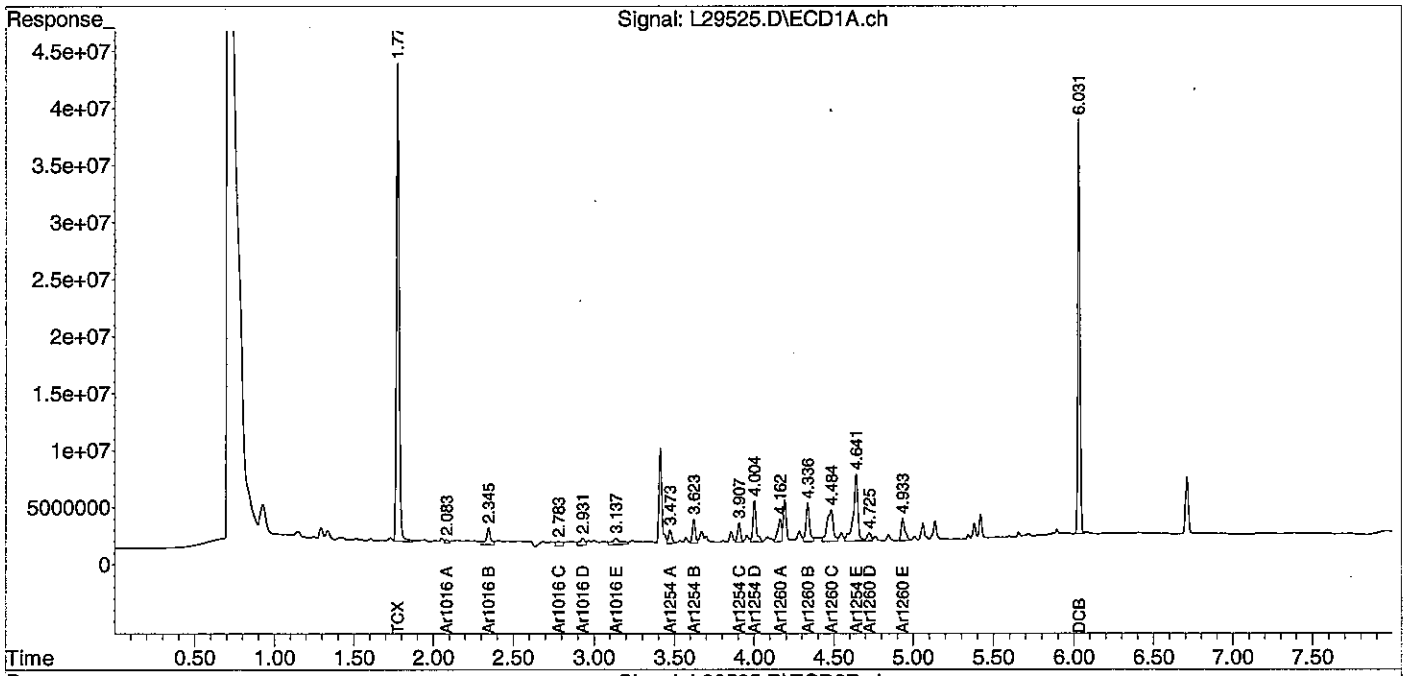
PCB FORM 10

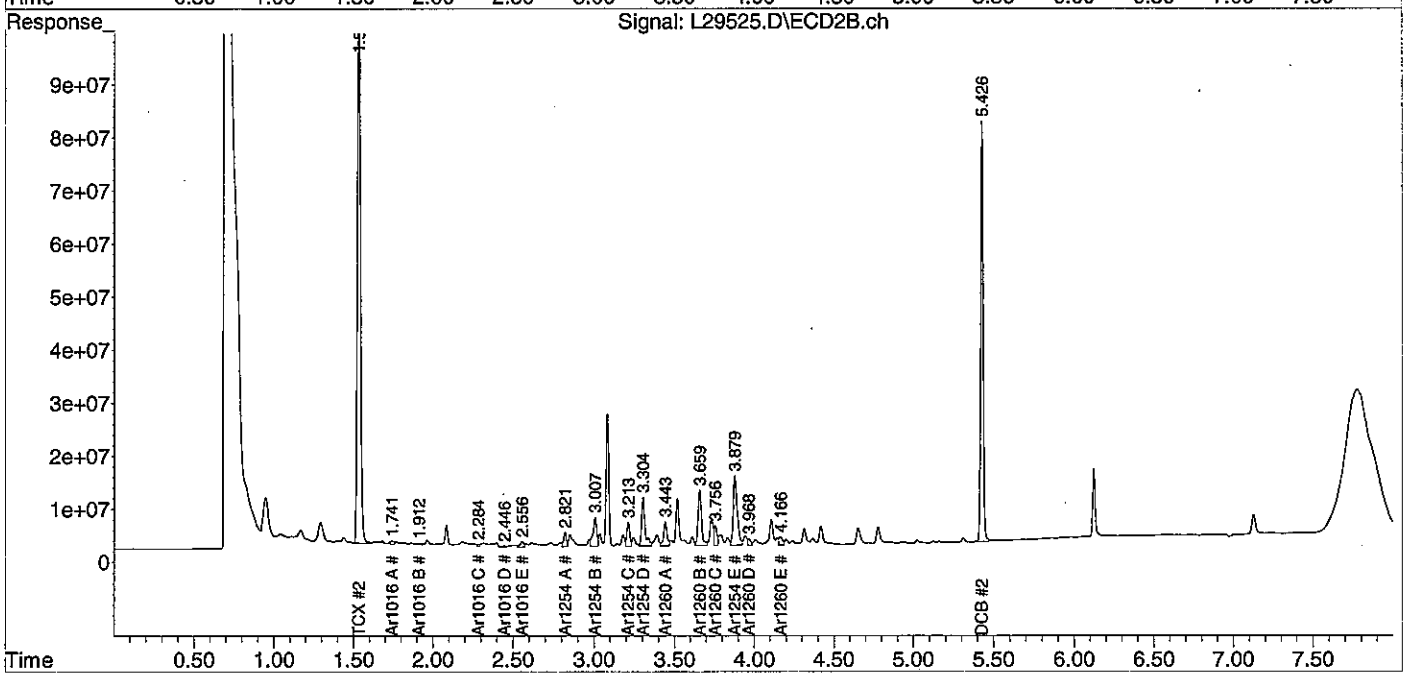
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29525.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 8:19 am
Operator : AR
Sample : 72503-2,,A/C
Misc : SOIL
ALS Vial : 40 Sample Multiplier: 1

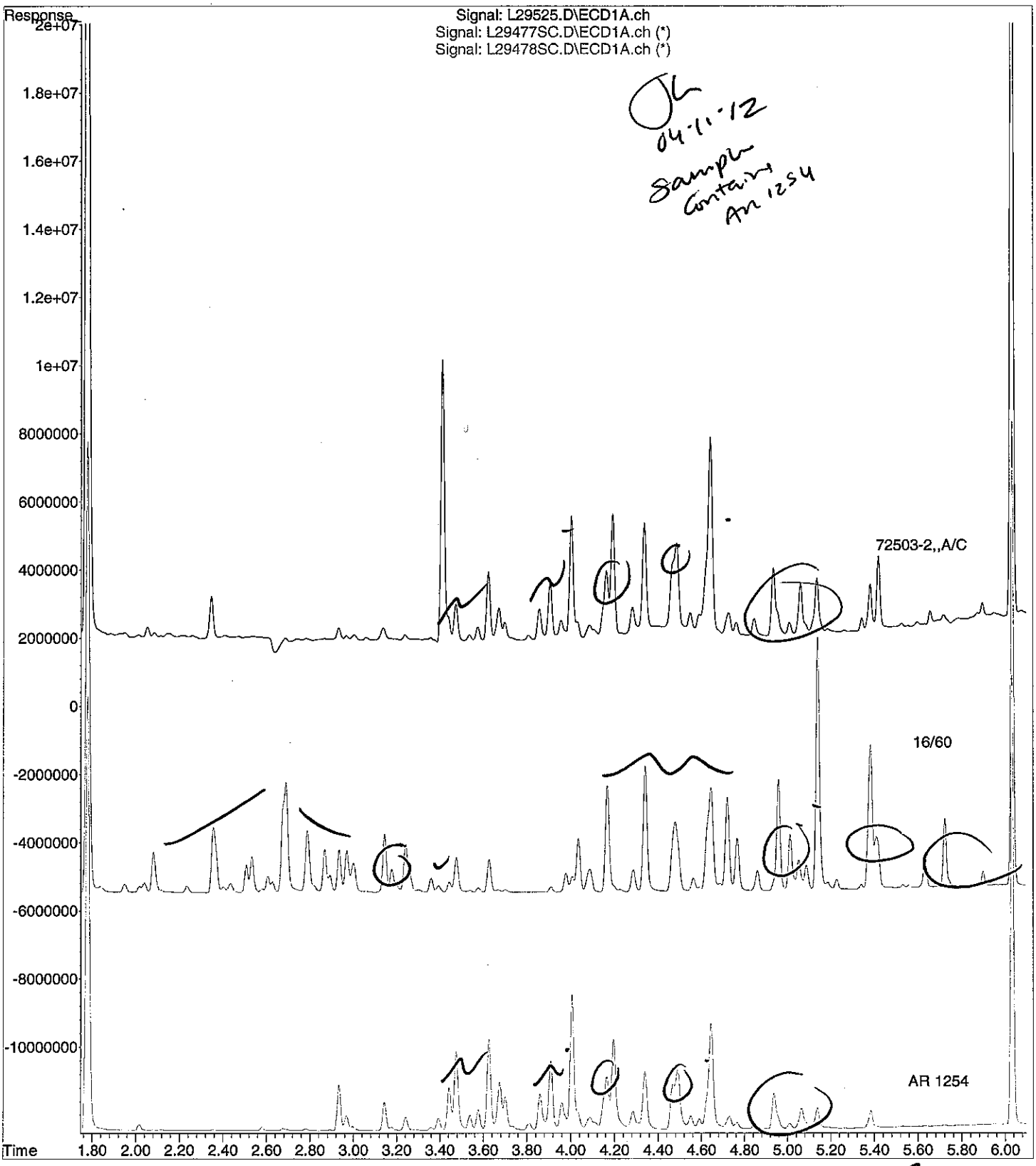
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 11:49:40 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-L\L29525.D
Operator : AR
Acquired : 7 Apr 2012 8:19 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72503-2,,A/C
Misc Info : SOIL
Vial Number: 40



JW 4.11.12

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April 11, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWG-203

Lab Sample ID: 72503-3
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 04/02/12
Lab Receipt Date: 04/05/12
Extraction Date: 04/05/12
Analysis Date: 04/07/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**8.6**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	84	%
Decachlorobiphenyl	67	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Jenny

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503
Sample: 72503-3,,A/C
Data File: L29526.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	8.6	8.4	1.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

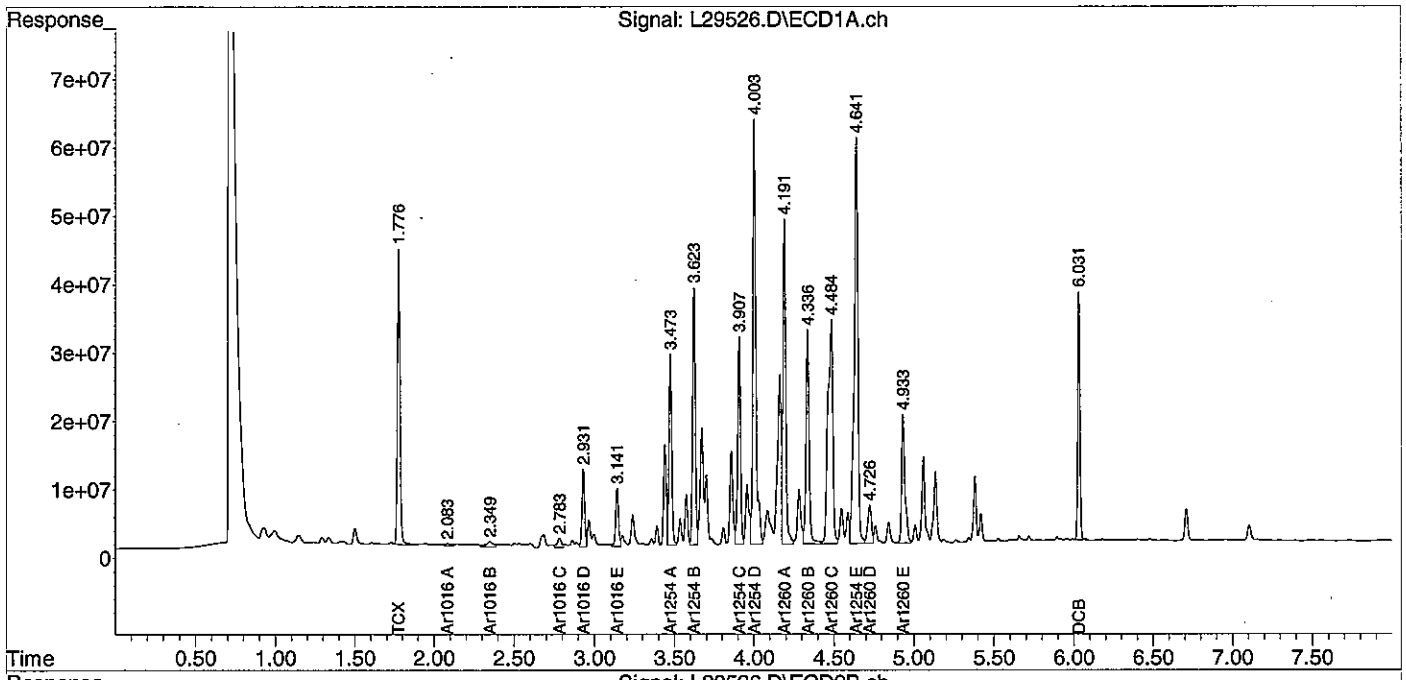
PCB FORM 10

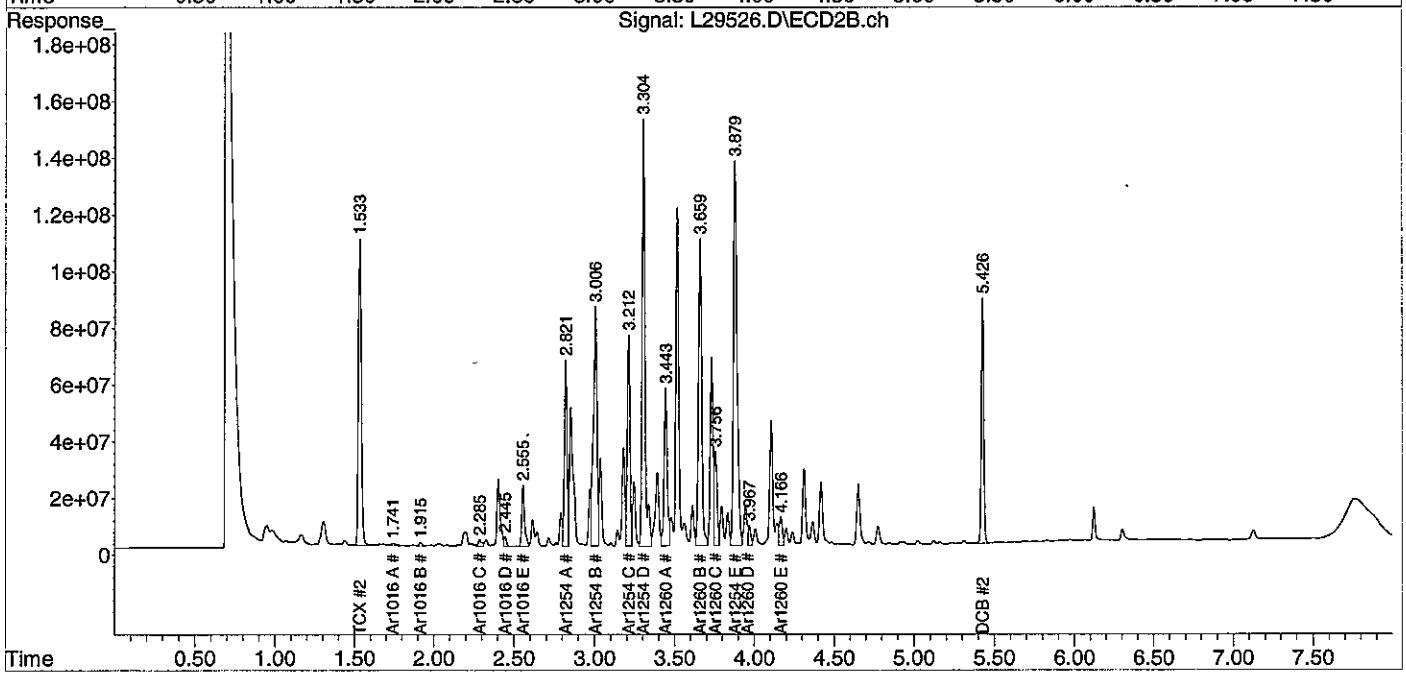
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29526.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 8:29 am
Operator : AR
Sample : 72503-3,,A/C
Misc : SOIL
ALS Vial : 41 Sample Multiplier: 1

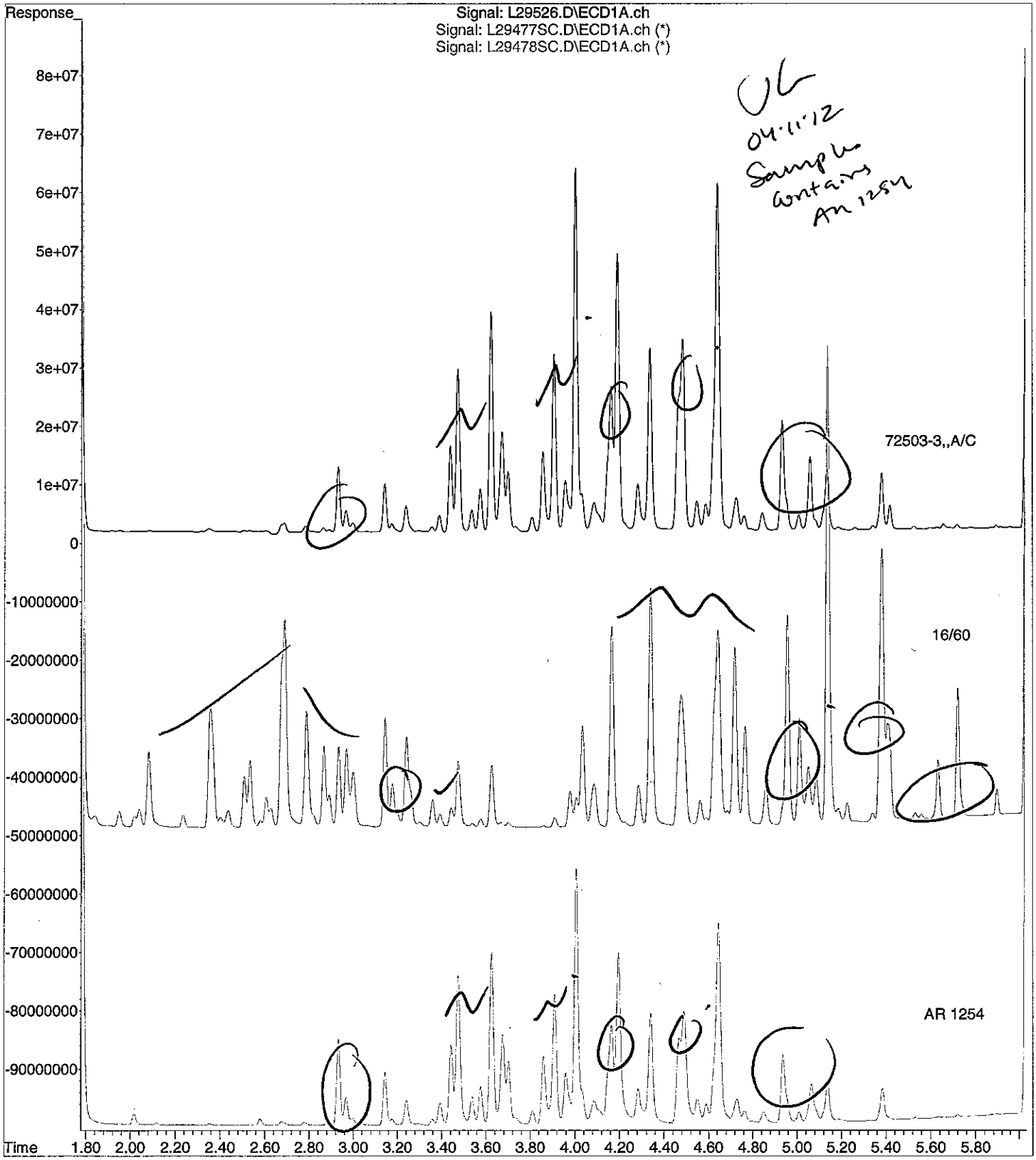
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 12:01:46 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-L\L29526.D
Operator : AR
Acquired : 7 Apr 2012 8:29 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72503-3,,A/C
Misc Info : SOIL
Vial Number: 41



JL 4.11.12

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April 11, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWG-204

Lab Sample ID: 72503-4
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 04/02/12
Lab Receipt Date: 04/05/12
Extraction Date: 04/05/12
Analysis Date: 04/07/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**4.2**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	75	%
Decachlorobiphenyl	63	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503
Sample: 72503-4,,A/C
Data File: L29527.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	4.2	3.9	6.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

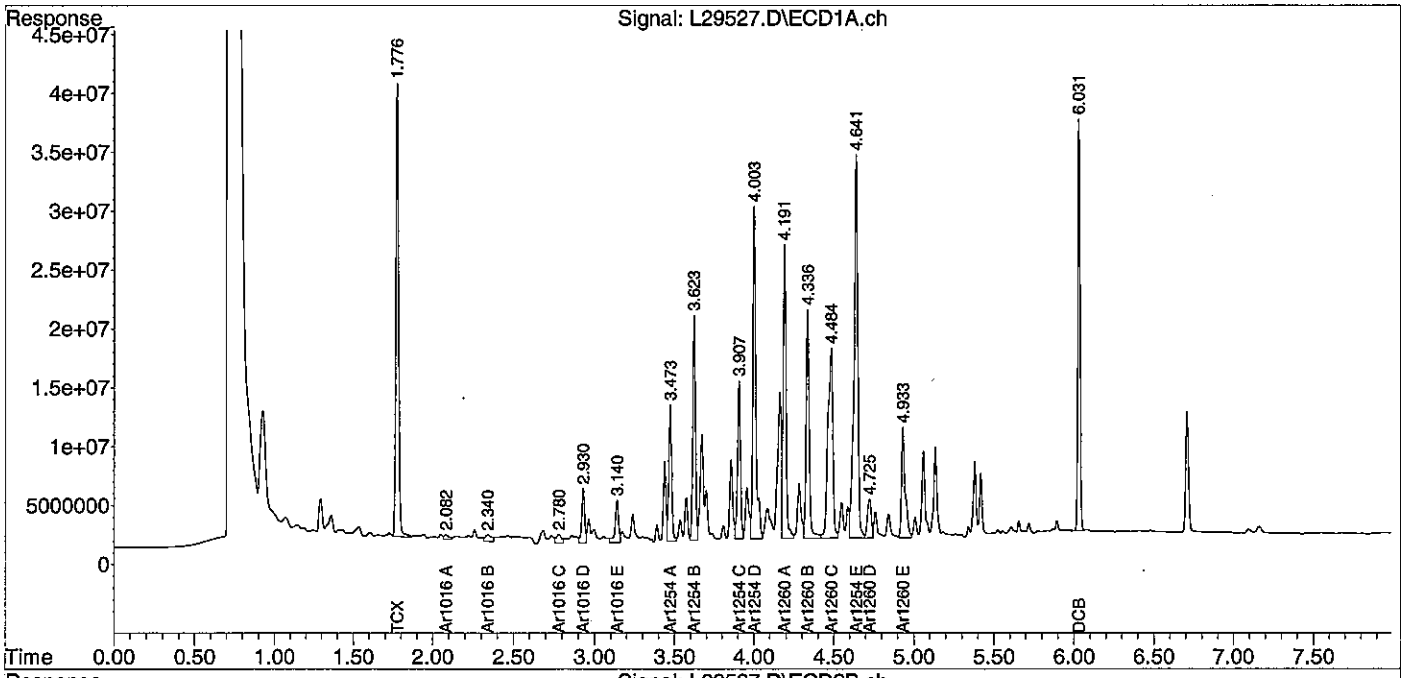
PCB FORM 10

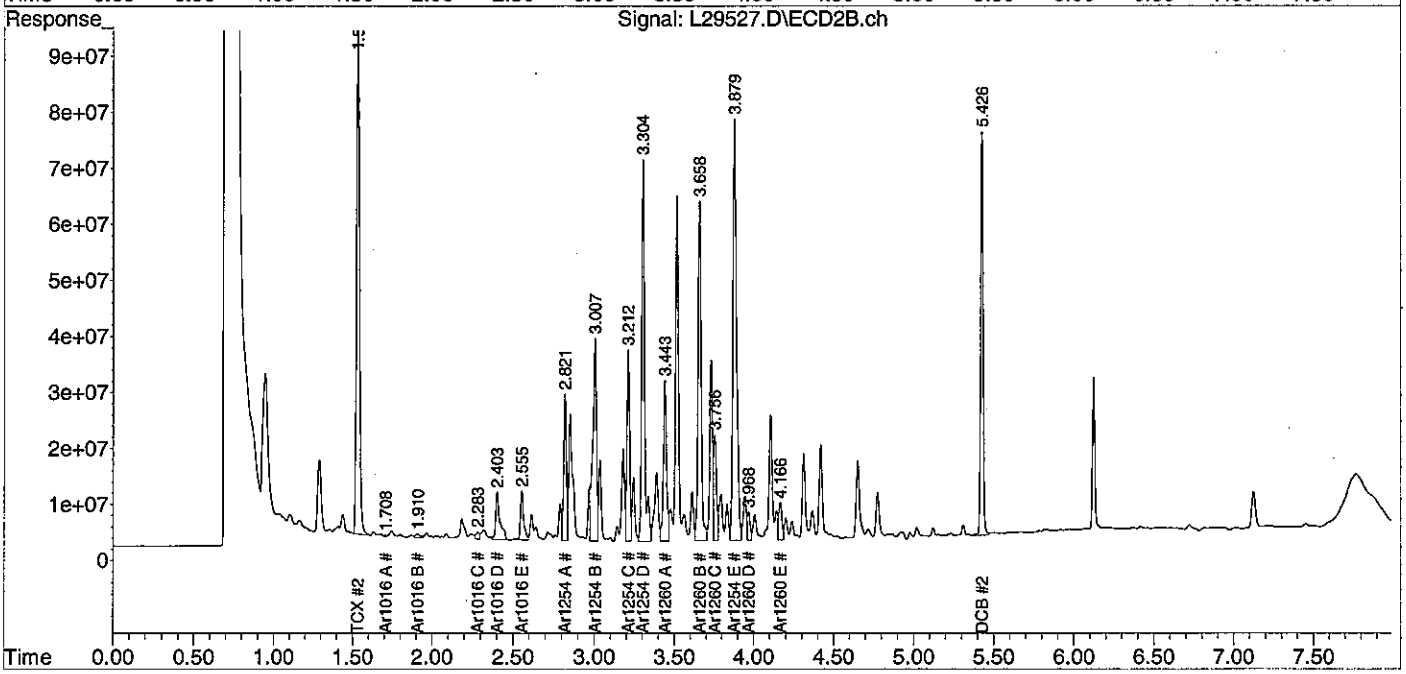
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29527.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 8:39 am
Operator : AR
Sample : 72503-4,,A/C
Misc : SOIL
ALS Vial : 42 Sample Multiplier: 1

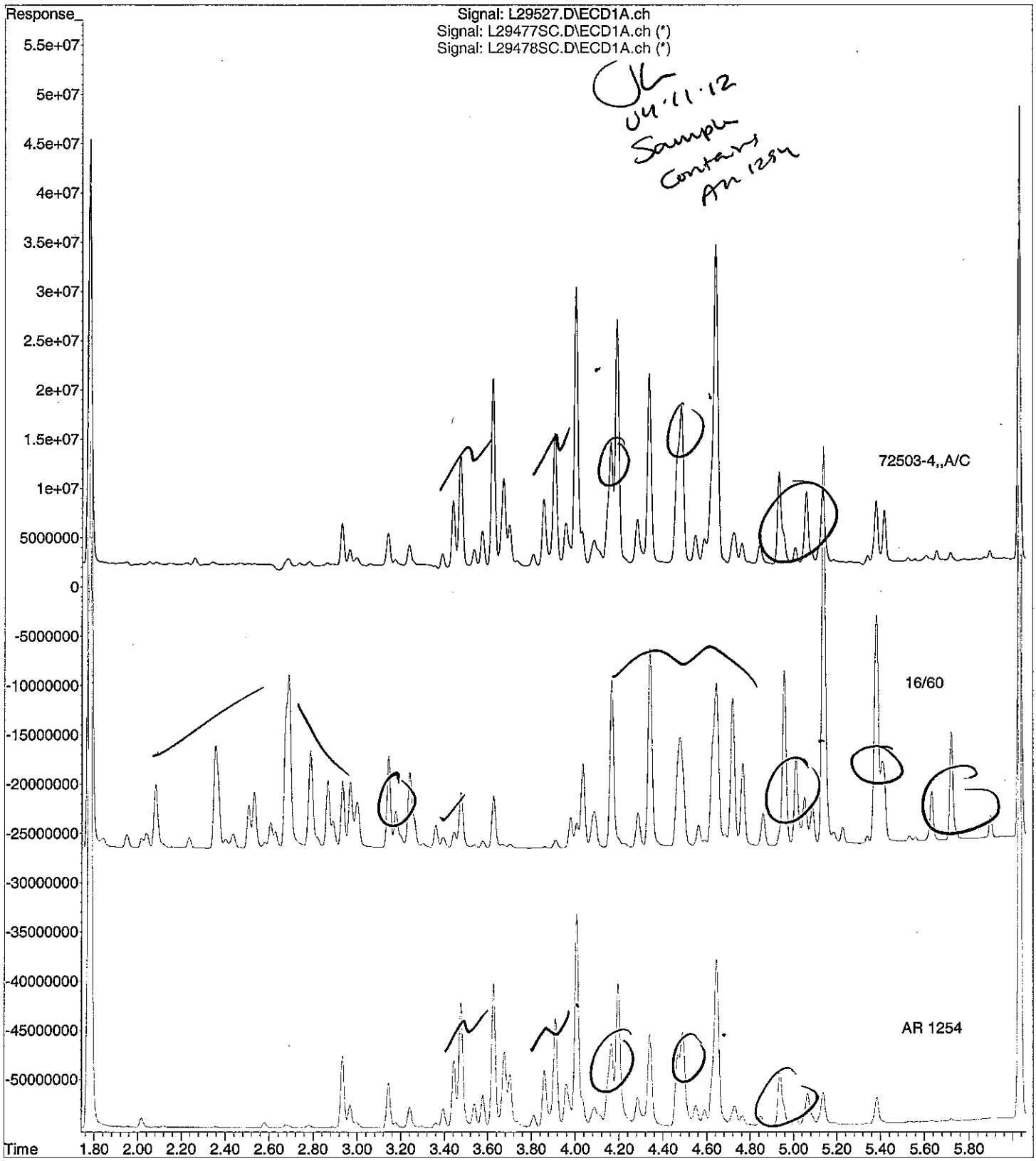
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 12:02:37 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-L\L29527.D
Operator : AR
Acquired : 7 Apr 2012 8:39 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72503-4,,A/C
Misc Info : SOIL
Vial Number: 42



JW 4.11.12

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Portland ME 04102

April 11, 2012

SAMPLE DATA

Lab Sample ID:	72503-5
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/02/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/07/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-205

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.1**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	76	%
Decachlorobiphenyl	63	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503
Sample: 72503-5,,A/C
Data File: L29528.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.1	1.1	2.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

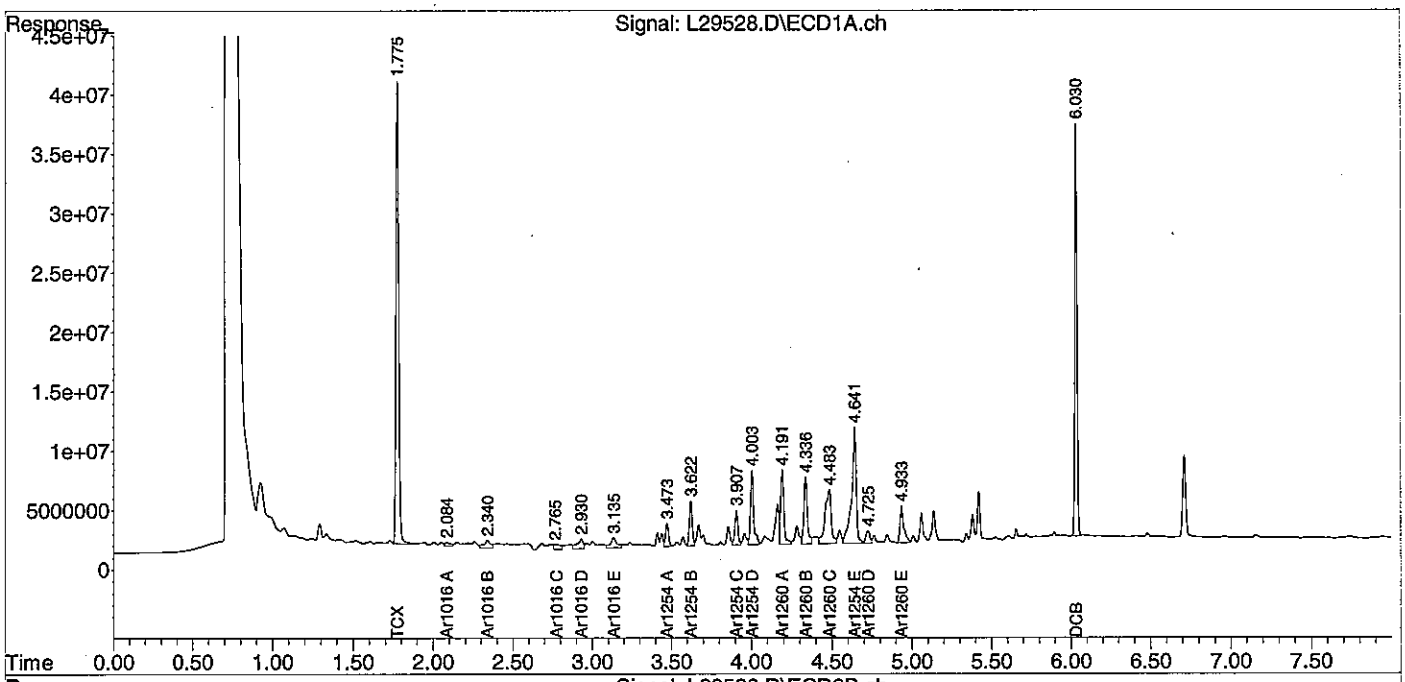
PCB FORM 10

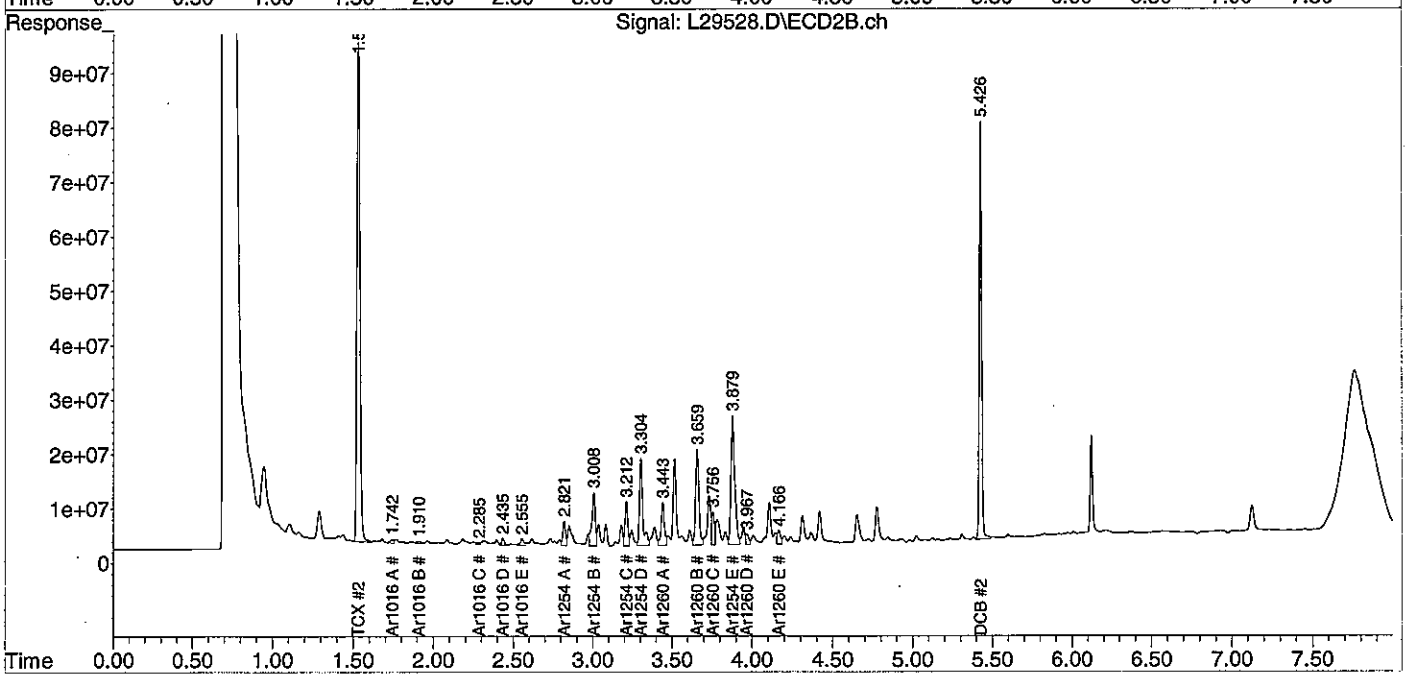
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29528.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 8:50 am
Operator : AR
Sample : 72503-5,,A/C
Misc : SOIL
ALS Vial : 43 Sample Multiplier: 1

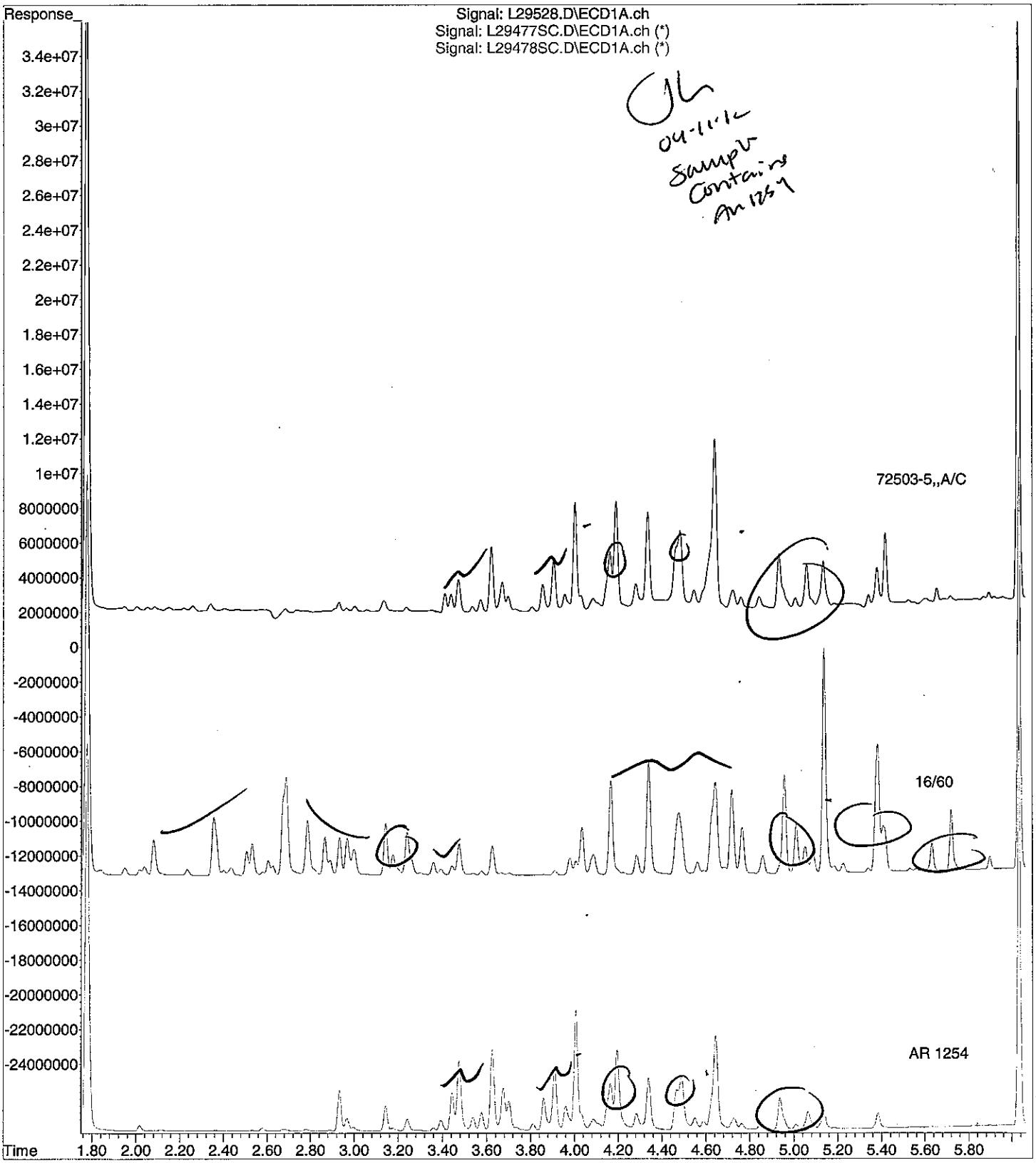
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 12:03:52 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-L\L29528.D
Operator : AR
Acquired : 7 Apr 2012 8:50 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72503-5,,A/C
Misc Info : SOIL
Vial Number: 43



 4/11/12

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April 11, 2012

SAMPLE DATA

Lab Sample ID:	72503-6
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/02/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/07/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-206

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	77	%
Decachlorobiphenyl	63	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

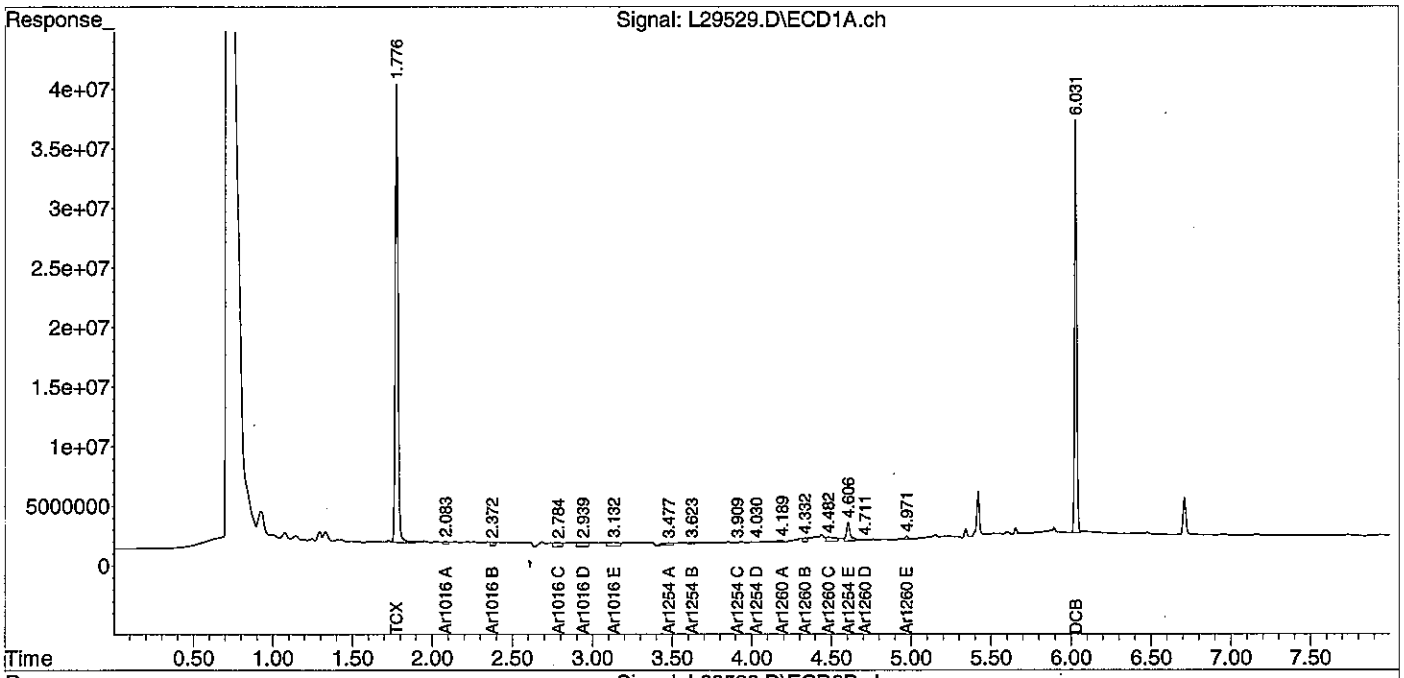
Authorized signature Jenna Lewis

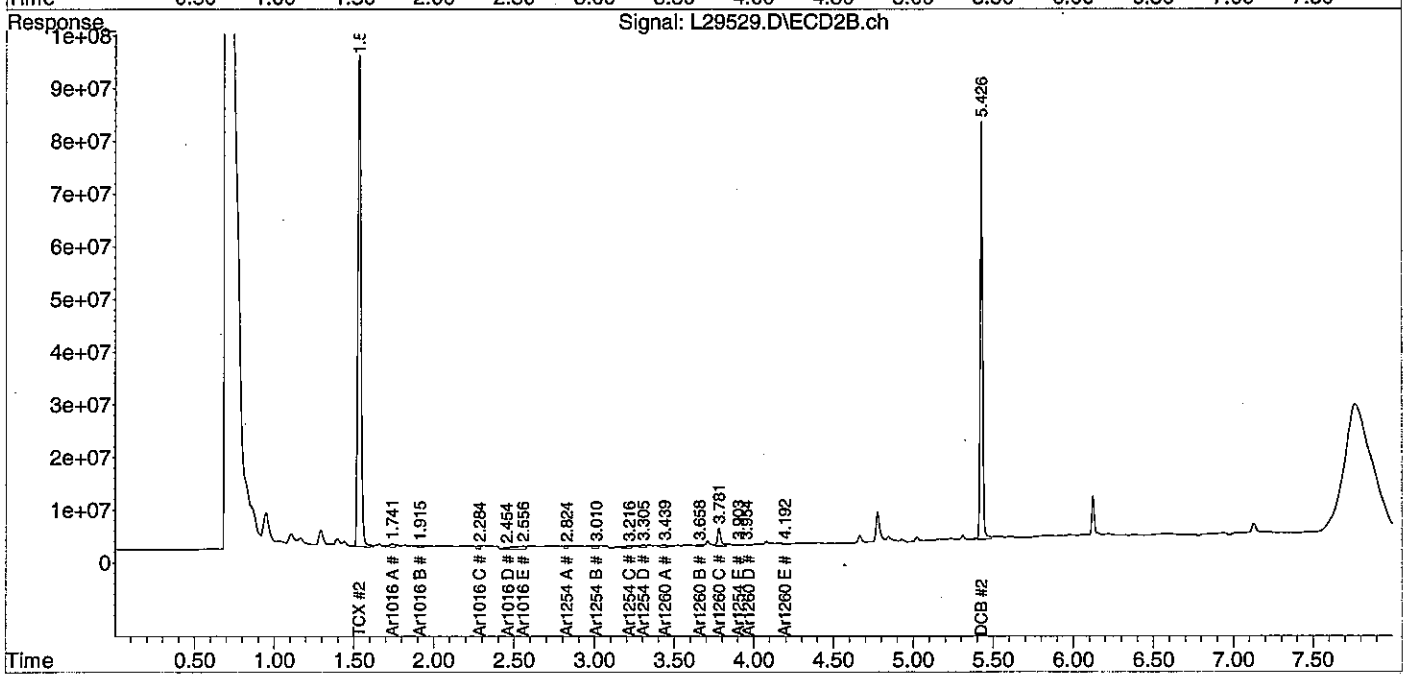
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29529.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 9:00 am
Operator : AR
Sample : 72503-6,,A/C
Misc : SOIL
ALS Vial : 44 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 11:31:29 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
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41 Hutchins Drive
Portland ME 04102

April 11, 2012

SAMPLE DATA

Lab Sample ID:	72503-7
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/03/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/07/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-217

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.9**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	78	%
Decachlorobiphenyl	61	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jenna Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503
Sample: 72503-7,,A/C
Data File: L29530.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.9	0.8	13.6	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

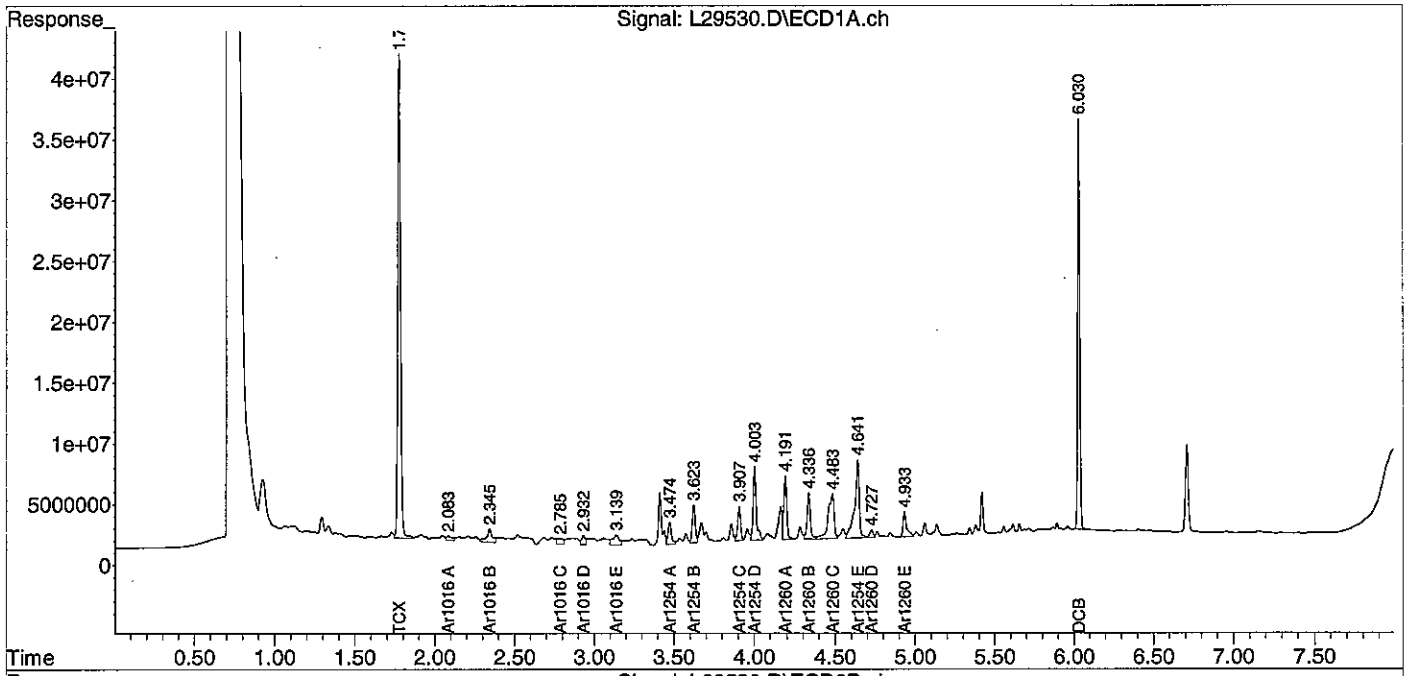
PCB FORM 10

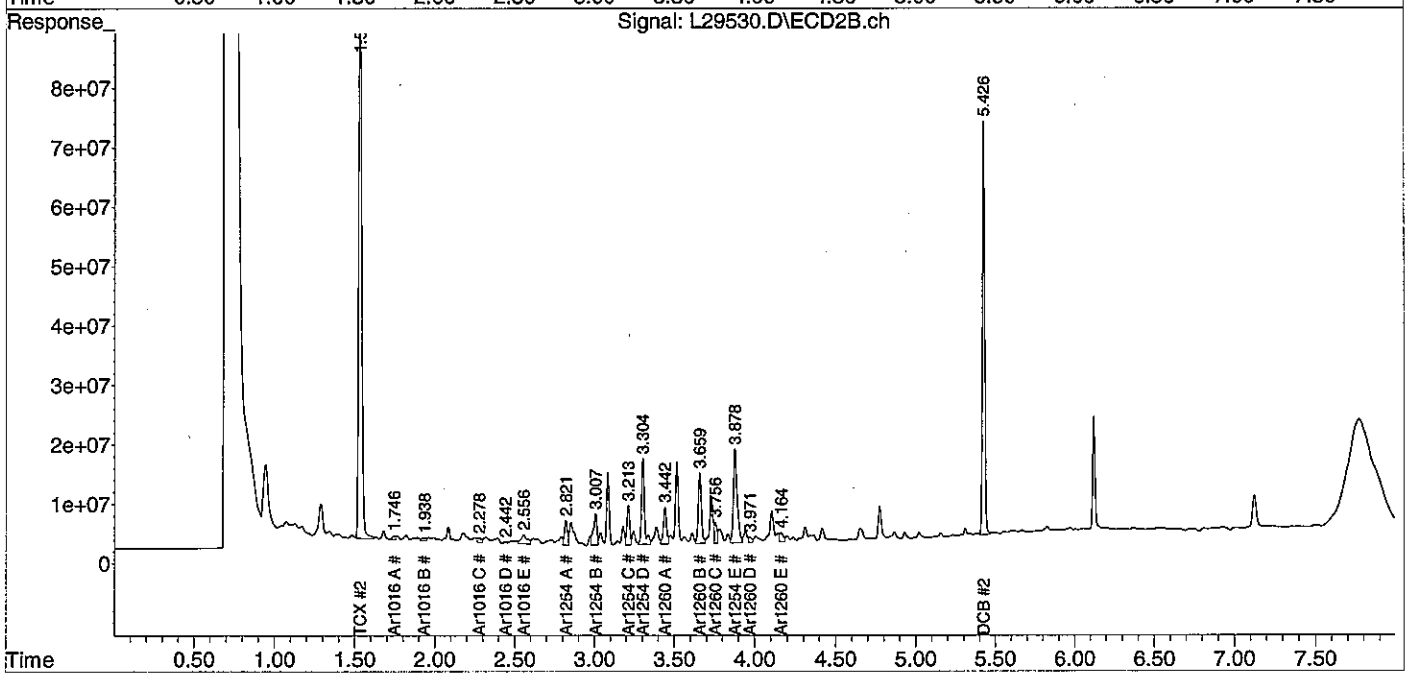
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29530.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 9:10 am
Operator : AR
Sample : 72503-7,,A/C
Misc : SOIL
ALS Vial : 45 Sample Multiplier: 1

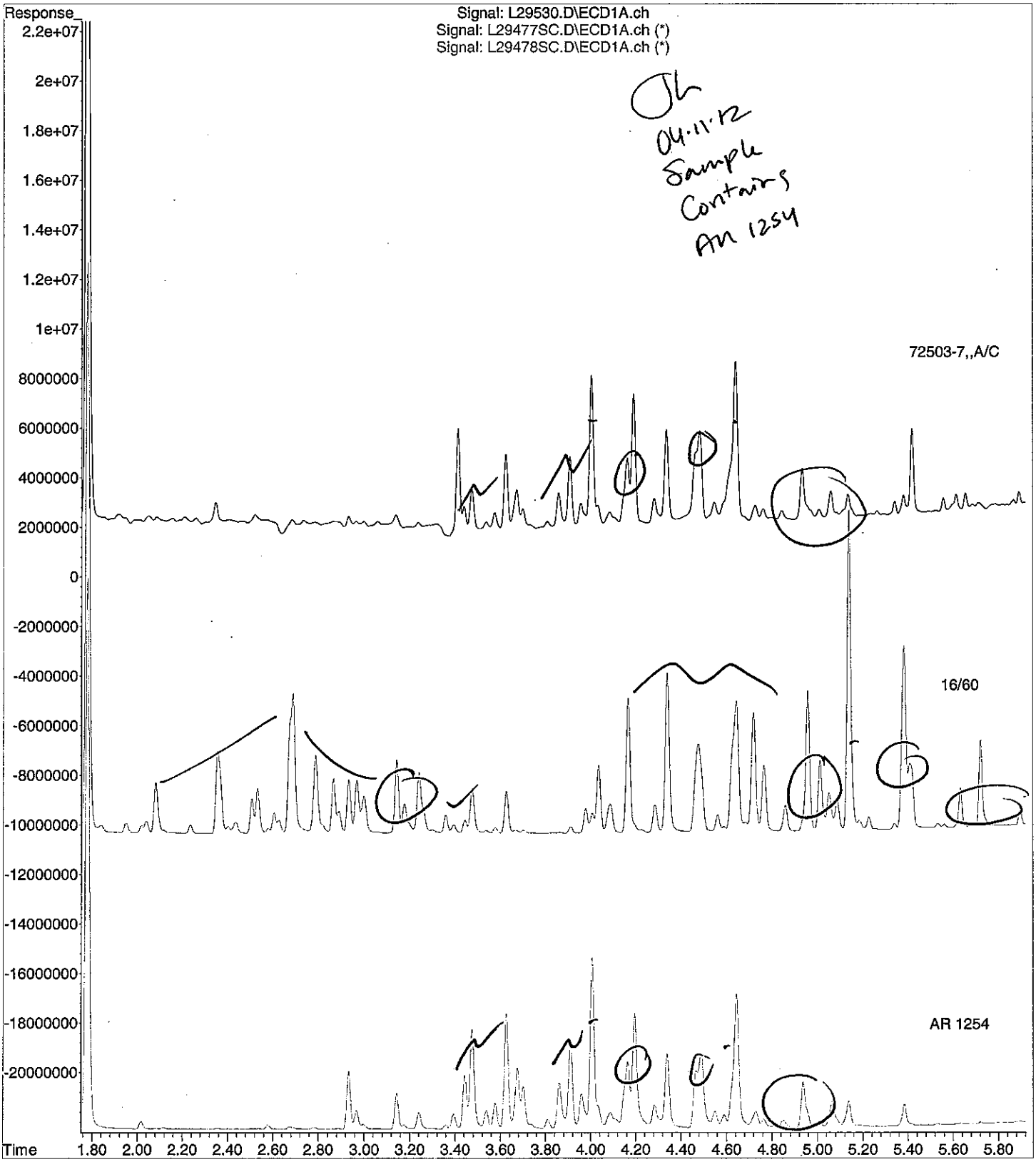
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 12:04:50 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-L\L29530.D
Operator : AR
Acquired : 7 Apr 2012 9:10 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72503-7,,A/C
Misc Info : SOIL
Vial Number: 45



 JL 4.11.12

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Ms. Amy Wallace
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April 11, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWM-218

Lab Sample ID: 72503-8
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 04/03/12
Lab Receipt Date: 04/05/12
Extraction Date: 04/05/12
Analysis Date: 04/07/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.5**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	77	%
Decachlorobiphenyl	62	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503
Sample: 72503-8,,A/C
Data File: L29531.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.5	0.4	21.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

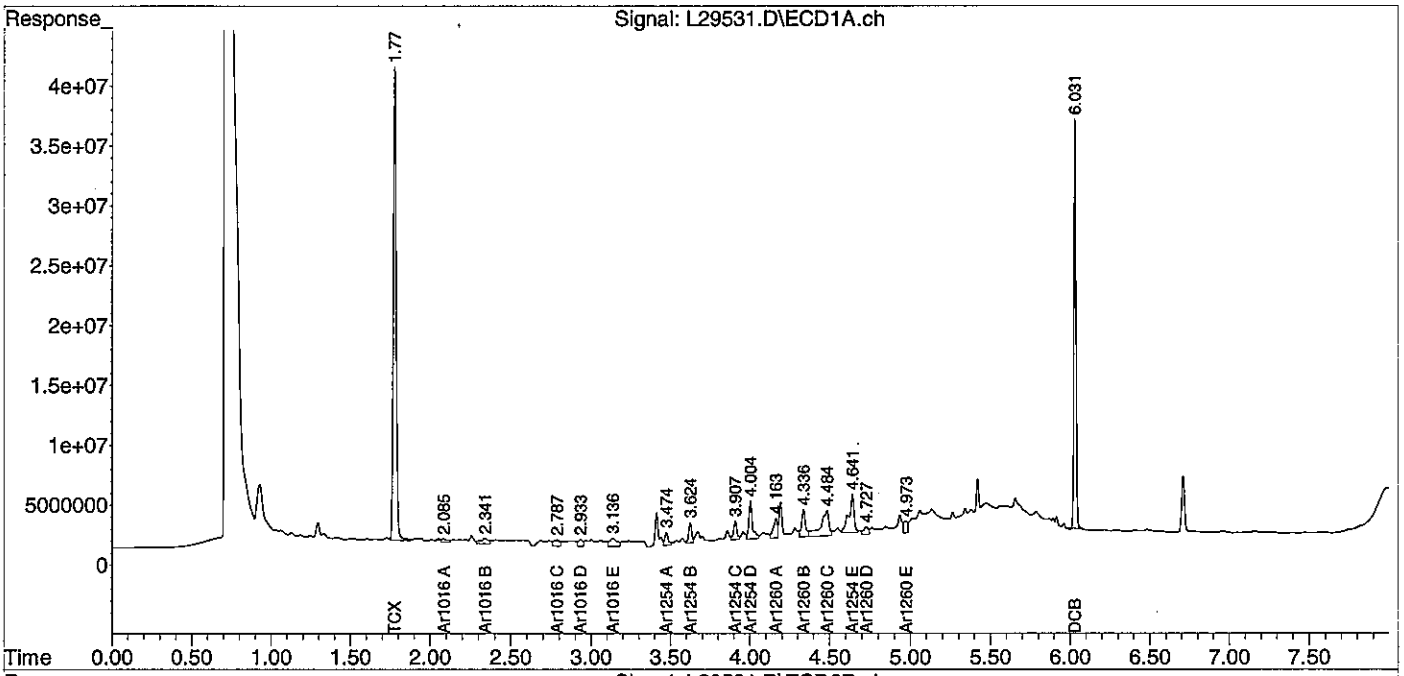
PCB FORM 10

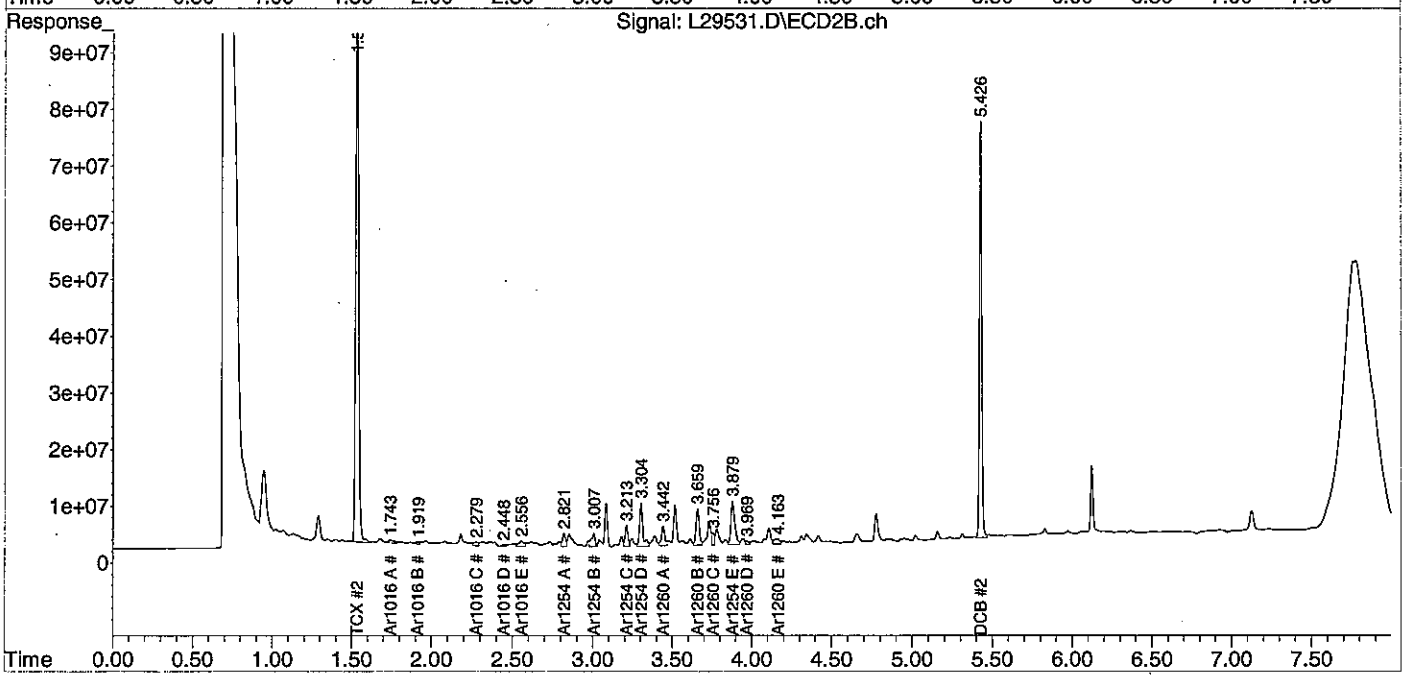
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29531.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 9:21 am
Operator : AR
Sample : 72503-8,,A/C
Misc : SOIL
ALS Vial : 46 Sample Multiplier: 1

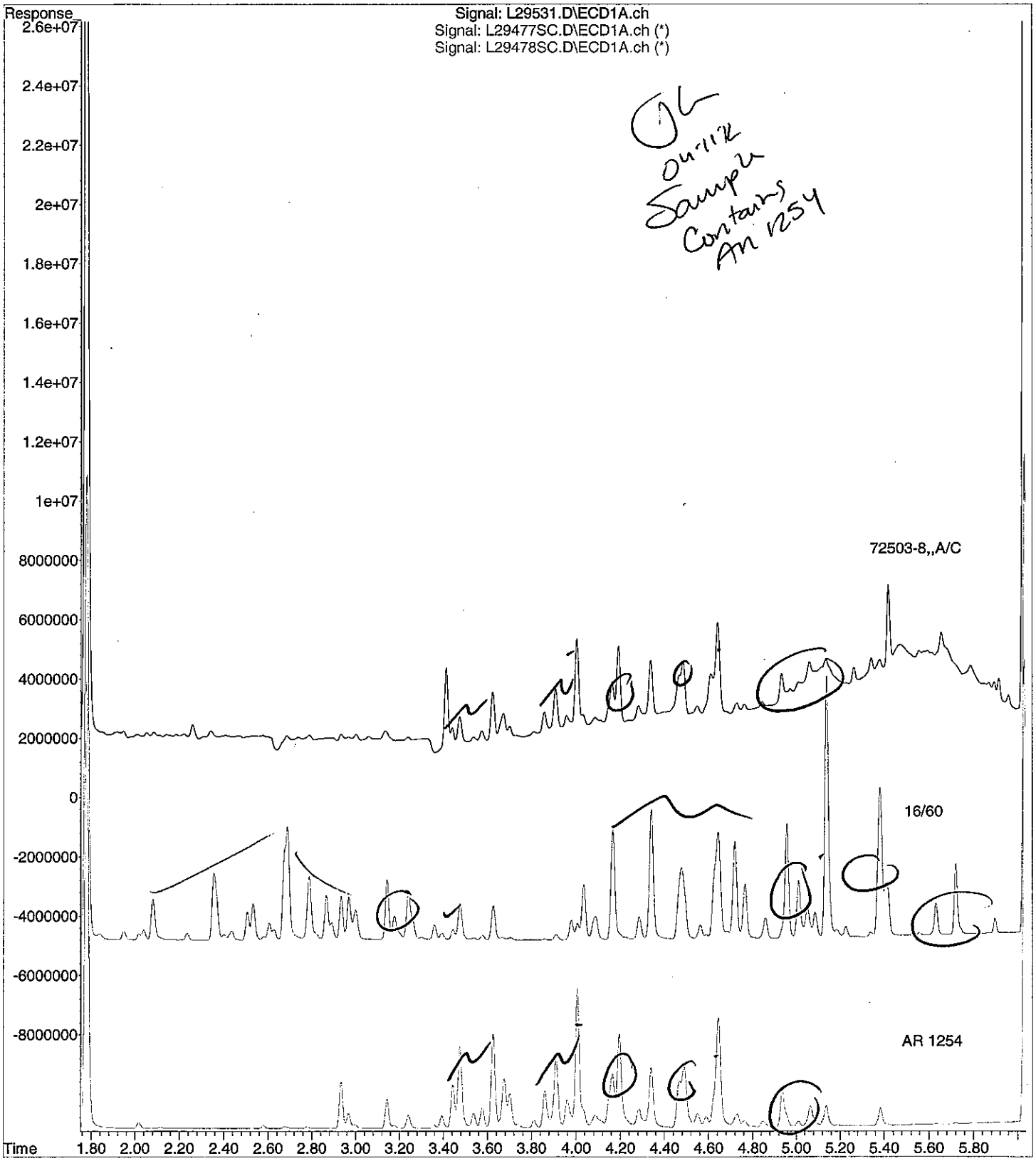
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 12:05:47 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-L\L29531.D
Operator : AR
Acquired : 7 Apr 2012 9:21 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72503-8,,A/C
Misc Info : SOIL
Vial Number: 46



JL 04-11-12 Sample Contains AR 1254

 4/11/12

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Ms. Amy Wallace
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Portland ME 04102

April 11, 2012

SAMPLE DATA

Lab Sample ID:	72503-9
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/03/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/07/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-219

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	77	%
Decachlorobiphenyl	61	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

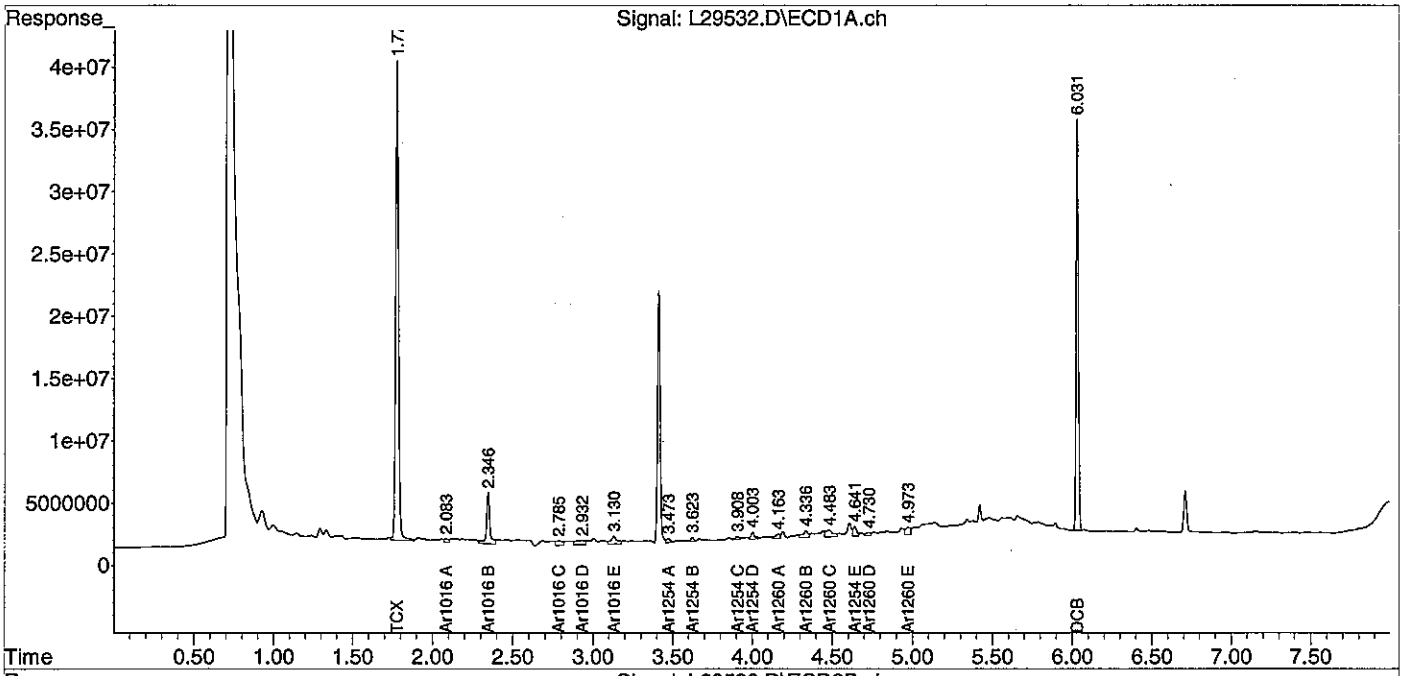
Authorized signature Jemma Lewis

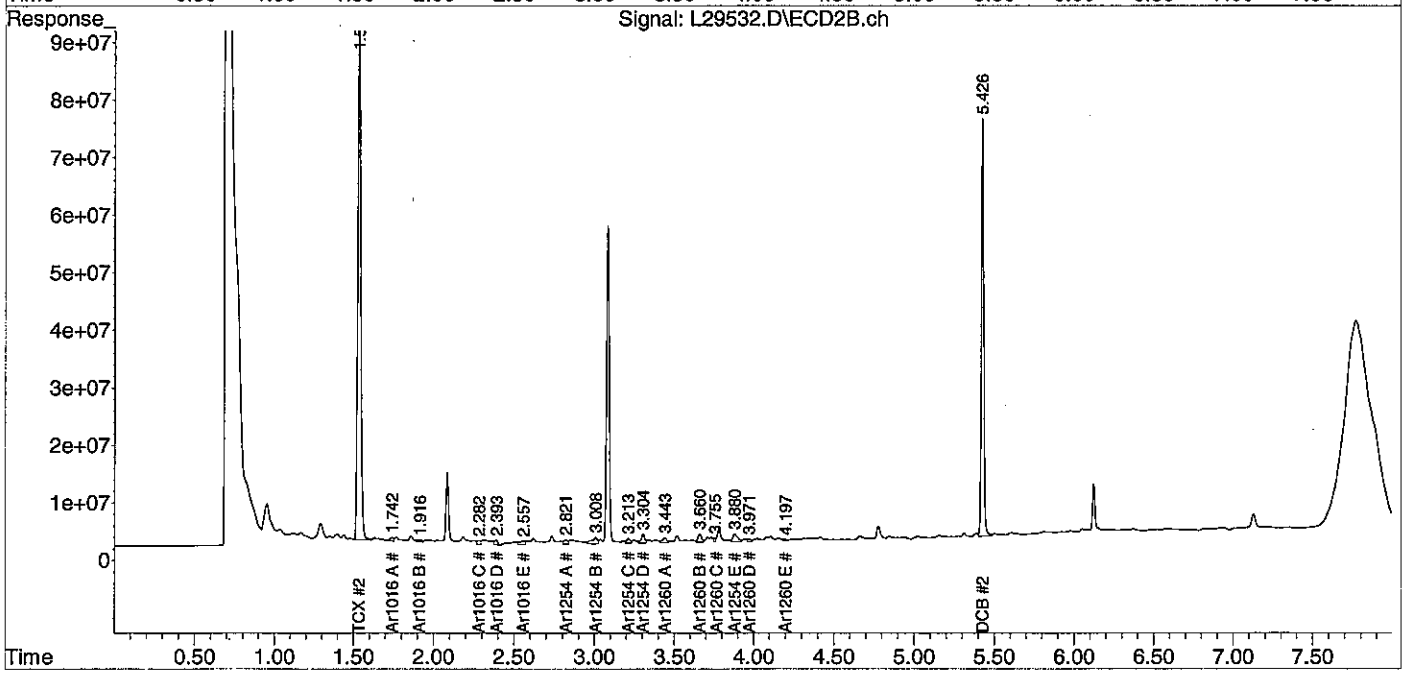
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29532.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 9:31 am
Operator : AR
Sample : 72503-9,,A/C
Misc : SOIL
ALS Vial : 47 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 11:31:35 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

May 9, 2012

SAMPLE DATA

Lab Sample ID:	72503-10
Matrix:	Aqueous
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/04/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/10/12
Analysis Date:	04/11/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBC-220

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/L	Results µg/L
PCB-1016	0.2	U
PCB-1221	0.2	U
PCB-1232	0.2	U
PCB-1242	0.2	U
PCB-1248	0.2	U
PCB-1254	0.2	U
PCB-1260	0.2	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	72	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.

COMMENTS:

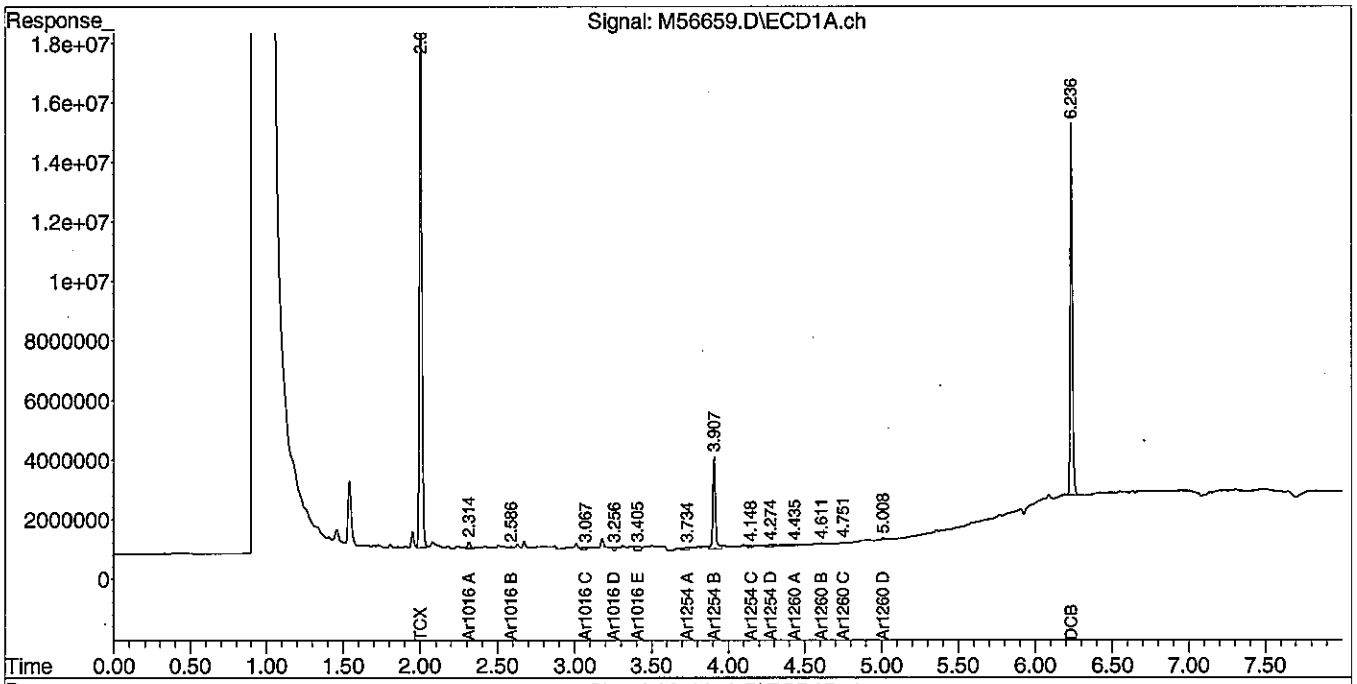
PCB Report

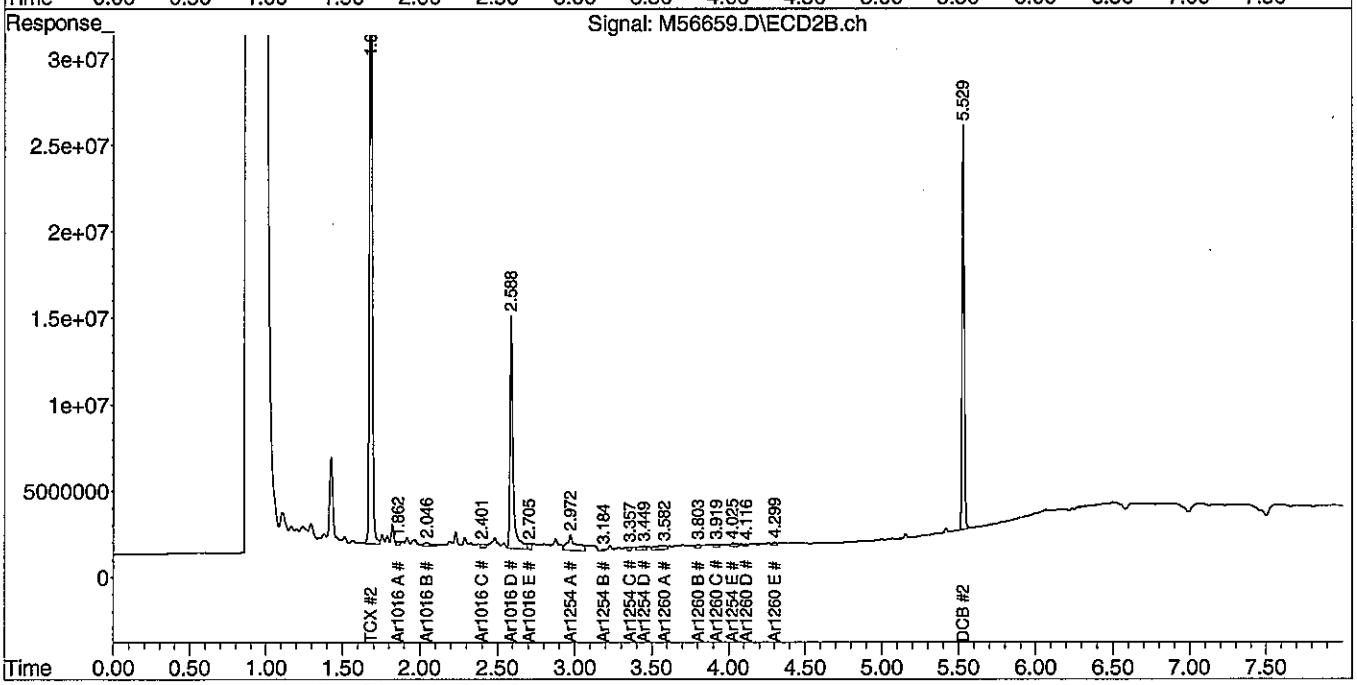
Authorized signature

Data Path : C:\msdchem\1\DATA\041112-M\
Data File : M56659.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 11 Apr 2012 4:36 pm
Operator : JK
Sample : 72503-10
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 12 08:30:52 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 11, 2012

SAMPLE DATA

Lab Sample ID:	72503-11
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/04/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/07/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-221

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.8**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	80	%
Decachlorobiphenyl	64	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503
Sample: 72503-11,,A/C
Data File: L29533.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.8	0.7	12.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

Comments: _____

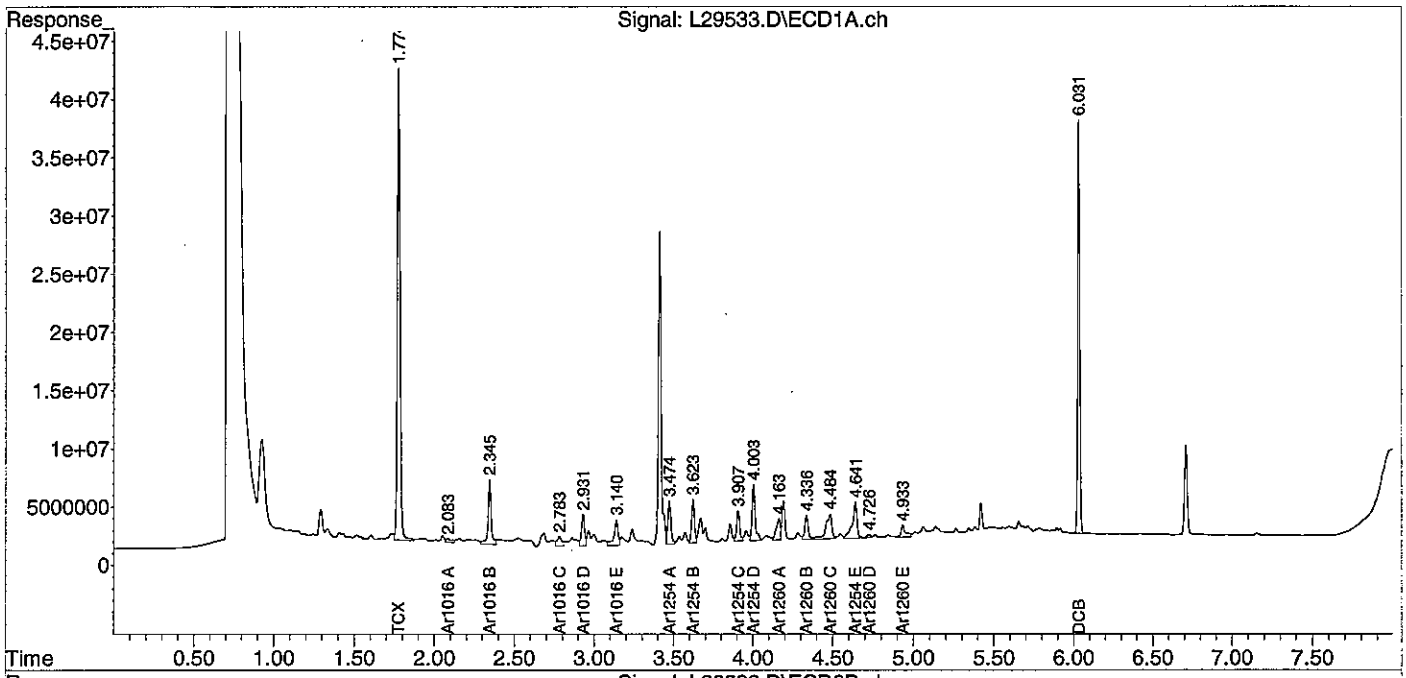
PCB FORM 10

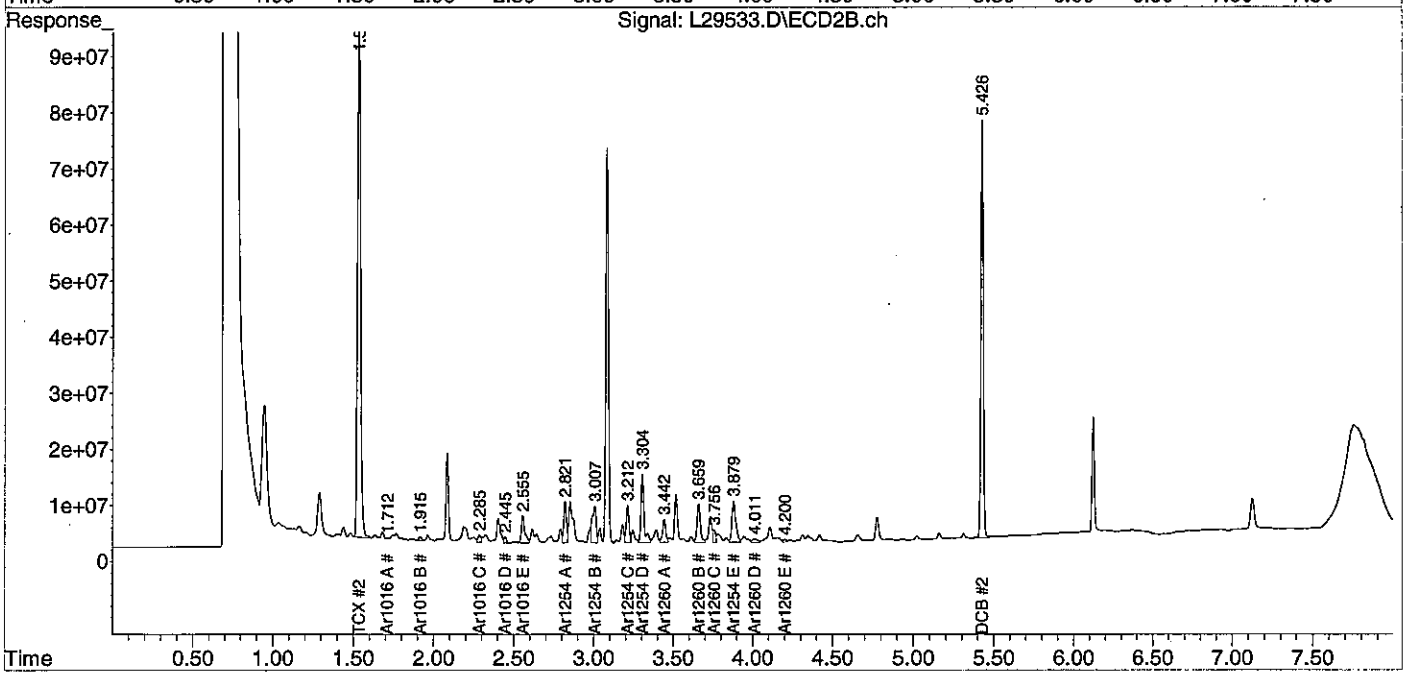
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29533.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 9:41 am
Operator : AR
Sample : 72503-11,,A/C
Misc : SOIL
ALS Vial : 48 Sample Multiplier: 1

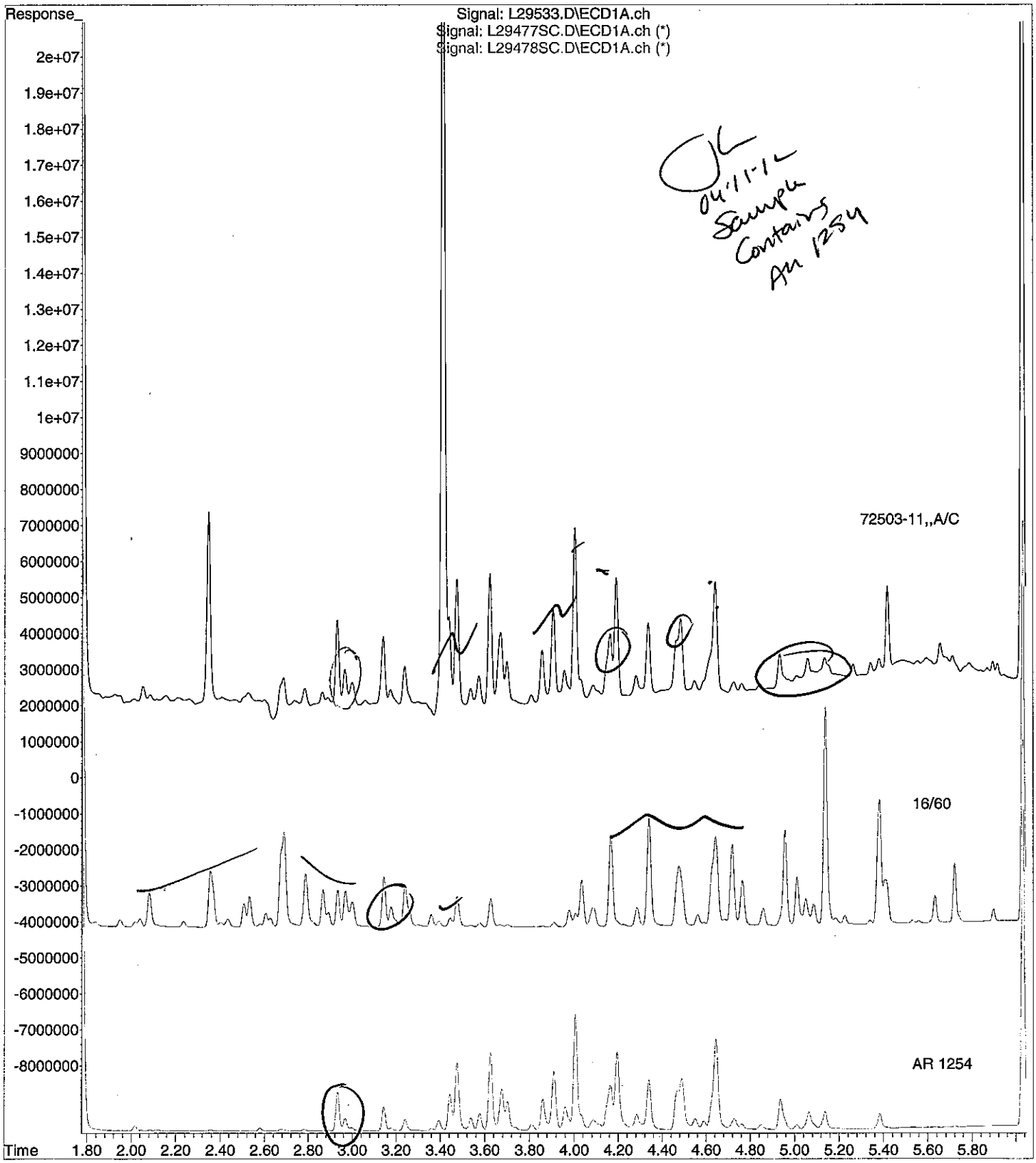
Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 12:07:50 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\040612-L\L29533.D
Operator : AR
Acquired : 7 Apr 2012 9:41 am using AcqMethod PCB.M
Instrument : Inst L
Sample Name: 72503-11,,A/C
Misc Info : SOIL
Vial Number: 48



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April 11, 2012

SAMPLE DATA

Lab Sample ID:	72503-12
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/04/12
Lab Receipt Date:	04/05/12
Extraction Date:	04/05/12
Analysis Date:	04/07/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-222

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	64	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

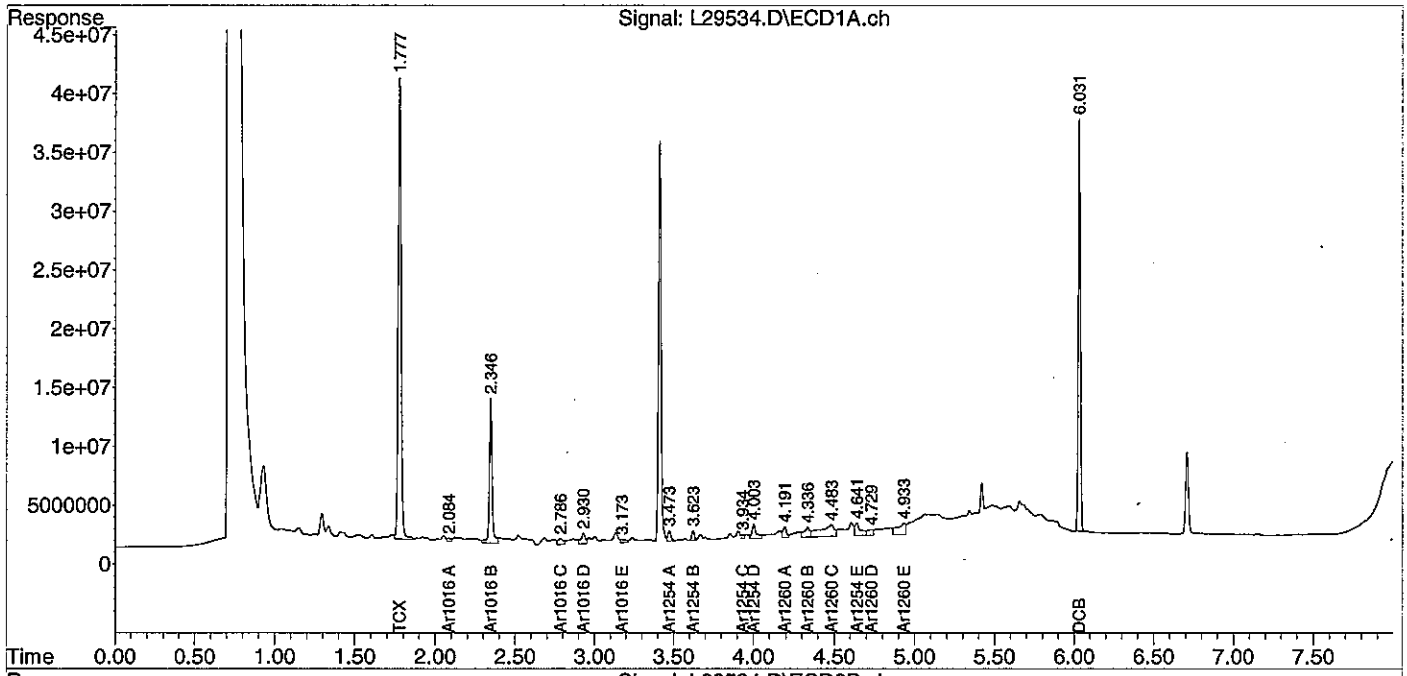
Authorized signature Jemma Lewis

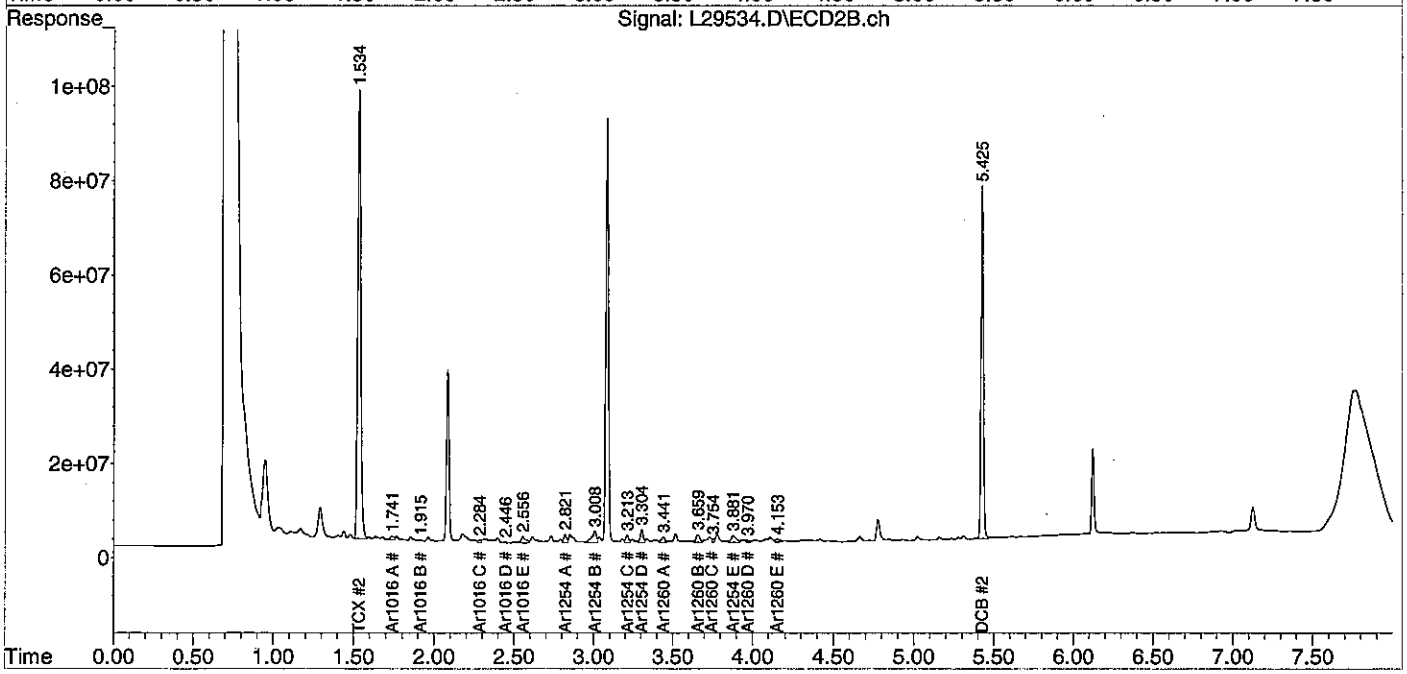
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\040612-L\
Data File : L29534.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 7 Apr 2012 9:52 am
Operator : AR
Sample : 72503-12,,A/C
Misc : SOIL
ALS Vial : 49 Sample Multiplier: 1

Integration File signal 1: autoint1.e
Integration File signal 2: autoint2.e
Quant Time: Apr 11 11:31:39 2012
Quant Method : C:\msdchem\1\METHODS\PCB032112.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 04 12:06:40 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B040512PSOXW,,A/C	79		66		75		67	
L040512PSOXW,,A/C	82		67		77		69	
LD040512PSOXW,,A/C	79		66		76		69	
72503-1,,A/C	82		66		78		65	
72503-2,,A/C	81		66		79		67	
72503-3,,A/C	84		67		82		72	
72503-4,,A/C	75		63		70		61	
72503-5,,A/C	76		63		72		65	
72503-6,,A/C	77		63		74		68	
72503-7,,A/C	78		61		73		58	
72503-8,,A/C	77		62		73		61	
72503-9,,A/C	77		61		73		61	
72503-11,,A/C	80		64		74		62	
72503-12,,A/C	79		64		74		63	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB AQUEOUS
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B041012PW,RR	94		77		79		69	
L041012PWB,RR	94		78		86		70	
LD041012PWB,RR	95		79		83		70	
72503-10	93		72		86		51	

		Lower Limit	Upper Limit
SMC #1 =	TCX	46	122
SMC #2 =	DCB	40	135

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: L
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72503
Non-spiked sample: B040512PSOXW,,A/C
Spike: L040512PSOXW,,A/C
Spike duplicate: LD040512PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	65	140	30	0.0	1.7	85		1.7	85		0.4	
PCB 1260	2.0	2.0	60	130	30	0.0	1.6	80		1.6	81		1.0	
PCB 1016 #2	2.0	2.0	65	140	30	0.0	1.5	73		1.5	74		0.7	
PCB 1260 #2	2.0	2.0	60	130	30	0.0	1.7	87		1.7	87		0.8	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.
Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB AQUEOUS
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72503

Non-spiked sample: B041012PW,RR

Spike: L041012PW,RR

Spike duplicate: LD041012PW,RR

COMPOUND	LCS SPIKE ADDED (ug/L)	LCSD SPIKE ADDED (ug/L)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/L)	SPIKE RESULT (ug/L)	SPIKE % REC	#	SPIKE DUP RESULT (ug/L)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	79	113	25	0.00	1.8	90.2		1.8	91.1		1.0	
PCB 1260	2.0	2.0	58	115	25	0.00	1.8	88.2		1.8	88.7		0.5	
PCB 1016 #2	2.0	2.0	81	112	25	0.00	1.7	85.5		1.7	85.1		0.5	
PCB 1260 #2	2.0	2.0	54	123	25	0.00	1.6	80.8		1.7	83.4		3.1	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been volume adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 1.5°C
3) Received in good condition: Y or N
4) pH checked by: JU 4/5/12
5) Labels checked by: JU 4/5/12

Project Name: UMaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code: Please fill in preservation code here

Preseravtion Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWG-201	4/2/12	14:35					B/G							WP	1		72503-1
UMSC-VWG-202	4/2/12	14:40					B/G							WP	1		2
UMSC-VWG-203	4/2/12	14:50					B/G							WP	1		3
UMSC-VWG-204	4/2/12	14:55					B/G							WP	1		4
UMSC-VWG-205	4/2/12	15:05					B/G							WP	1		5
UMSC-VWG-206	4/2/12	15:10					B/G							WP	1		6
UMSC-VWM-217	4/3/12	13:35					B/G							WP	1		7
UMSC-VWM-218	4/3/12	13:40					B/G							WP	1		8
UMSC-VWM-219	4/3/12	13:45					B/G							WP	1		9
UMSC-VBC-220	4/4/12	12:45					B							X	1		10

Email Results to: awallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions: ** List requested metals here
Amber L pH 6.5 + (-) for residual Cl- JU 4.5.12
VBC-220 is water from a field blank test

Turnaround Time (TAT): 24 Hours* ☐ 48 Hours* ☐ 72 Hours* ☐ 5 Days* ☒ 10 Days ☐
*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply
Report Type: MCP* ☐ CTRCP* ☐ DOD* ☐ Level II* ☒ Level III* ☐ Level IV* ☐ Standard ☐
State: NH ☐ MA ☐ ME ☒ CT ☐ RI ☐ Other:
State Standard: (eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: Charlie Smith	Date: 4/5/12	Time: 12:00	Received By: Amy Wallace
Relinquished By: Amy Wallace	Date: 4/6/12	Time: 1430	Received By: [illegible]
Relinquished By:	Date:	Time:	Received By:

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 1.5°C
3) Received in good condition: Y or N
4) pH checked by: Ju 4.5.12
5) Labels checked by: 4/5/12

Project Name: UMaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis Followed by Preservation Code
Preservation Code: Please write in preservation code here

Preservation Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet: Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWM-221	4/4/12	13:40					B/G						WP	1		72503-11
UMSC-VWM-222	4/4/12	13:45					B/G						WP	1		12

Email Results to:
awallace@woodardcurran.com

Turnaround Time (TAT)
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☒ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH
☐ MA
☒ ME
☐ CT
☐ RI
Other:

State Standard:
(eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Date: 4/5/12	Time: 12:00	Received By: Amy Wa
Relinquished By: Amy Wa	Date: 4/5/12	Time: 1430	Received By:
Relinquished By:	Date:	Time:	Received By:

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72503 COOLER NUMBER: 84

CLIENT: W+C NUMBER OF COOLERS: 1

PROJECT: Umaine - Stewart

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): DW DATE COOLER RECEIVED/OPENED: 4.5.12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N/A

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y NA

6. COC#: —

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 1.5°C

B. Log-In: Date samples were logged in: 4.5.12 By: JW

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Amber L @ PH 6.5 Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were VOA samples absent of greater than pea-sized bubbles? Y N/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): J Date: 4/5/12

From: Melissa Gulli <mgulli@analyticslab.com>
Subject: **Fwd: 72503**
Date: May 9, 2012 9:21:55 AM EDT
To: Casey Payne <cpayne@analyticslab.com>

Please revise

Thanks

Please provide us with feedback on how we are doing by filling out a survey: Customer Feedback Survey

Melissa Gulli
Assistant Laboratory Director
Analytics Environmental Laboratory, LLC
195 Commerce Way Suite E
Portsmouth, NH 03801
800-929-9906 | 603-436-5111 | cell 603-491-9237

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Begin forwarded message:

From: "Data Check, Inc." <datachck@tds.net>
Date: May 8, 2012 8:36:35 AM EDT
To: Melissa Gulli <mgulli@analyticslab.com>
Cc: Amy Wallace <awallace@woodardcurran.com>
Subject: **72503**
Reply-To: datachck@tds.net

Hi Melissa,

I am in the process of validating this package for Amy at W&C and noted that for sample -10 the COC lists the ID as UMSC-VBC-220 but the lab used UMSC-VWC-220.

Thanks,
Gloria

--
Gloria J. Switalski, President
Data Check, Inc.
PO Box 29
81 Meaderboro Road
New Durham, NH 03855
(603) 859-8979
datachck@tds.net

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

May 9, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72584 Revision 2
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Revision 1: This report has been revised to correct the typographical error on the station ID for sample 72584-27. It has been corrected to "UMSC-VWM-249".

Revision 2: This report has been revised to exclude PCB-1262 and PCB-1268 on sample 72584-15 which was improperly reported.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
Sample "UMSC-VWM-238" had sample time of 11:55 on container but the COC stated sample time of 12:00. Client informed the lab that the COC has the correct time not the container and to proceed as such.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72584

Revision: Rev. 2

Re: UMaine-Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 13 April 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 05/09/12

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analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

CLIENT: Woodard & Curran **REPORT NUMBER: 72584** **REV: Rev. 2**

PROJECT: UMaine-Stewart Commons (Project No: 222822)

Lab Number	Sample Date	Station Location	Analysis	Comments
72584-1	04/12/12	UMSC-VWM-229	EPA 8082 (PCBs only)	
72584-2	04/12/12	UMSC-VWM-230	EPA 8082 (PCBs only)	
72584-3	04/12/12	UMSC-VWM-231	EPA 8082 (PCBs only)	
72584-4	04/12/12	UMSC-VWM-232	EPA 8082 (PCBs only)	
72584-5	04/12/12	UMSC-VWM-233	EPA 8082 (PCBs only)	
72584-6	04/12/12	UMSC-VWM-234	EPA 8082 (PCBs only)	
72584-7	04/12/12	UMSC-VWM-235	EPA 8082 (PCBs only)	
72584-8	04/12/12	UMSC-VWM-236	EPA 8082 (PCBs only)	
72584-9	04/12/12	UMSC-VWM-237	EPA 8082 (PCBs only)	
72584-10	04/12/12	UMSC-VWM-238	EPA 8082 (PCBs only)	
72584-11	04/12/12	UMSC-VWM-239	EPA 8082 (PCBs only)	
72584-12	04/12/12	UMSC-VWM-240	EPA 8082 (PCBs only)	
72584-13	04/12/12	UMSC-VWM-241	EPA 8082 (PCBs only)	
72584-14	04/12/12	UMSC-VWM-242	EPA 8082 (PCBs only)	
72584-15	04/12/12	UMSC-VWM-243	EPA 8082 (PCBs only)	
72584-16	04/12/12	UMSC-VWM-244	EPA 8082 (PCBs only)	
72584-17	04/12/12	UMSC-VWM-245	EPA 8082 (PCBs only)	
72584-18	04/12/12	UMSC-VWM-246	EPA 8082 (PCBs only)	
72584-19	04/12/12	UMSC-VWM-247	EPA 8082 (PCBs only)	
72584-20	04/12/12	UMSC-VWM-248	EPA 8082 (PCBs only)	
72584-21	04/10/12	UMSC-VWG-223	EPA 8082 (PCBs only)	
72584-22	04/11/12	UMSC-VWM-224	EPA 8082 (PCBs only)	
72584-23	04/11/12	UMSC-VWM-225	EPA 8082 (PCBs only)	
72584-24	04/11/12	UMSC-VWM-226	EPA 8082 (PCBs only)	
72584-25	04/11/12	UMSC-VWM-227	EPA 8082 (PCBs only)	
72584-26	04/11/12	UMSC-VWM-228	EPA 8082 (PCBs only)	
72584-27	04/12/12	UMSC-VWM-249	EPA 8082 (PCBs only)	
72584-28	04/12/12	UMSC-VWM-250	Electronic Data Deliverable	
	04/12/12	UMSC-VWM-250	EPA 8082 (PCBs only)	

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 18, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: Lab QC

Lab Sample ID: B041612PSOX
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 04/16/12
Analysis Date: 04/17/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	106	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

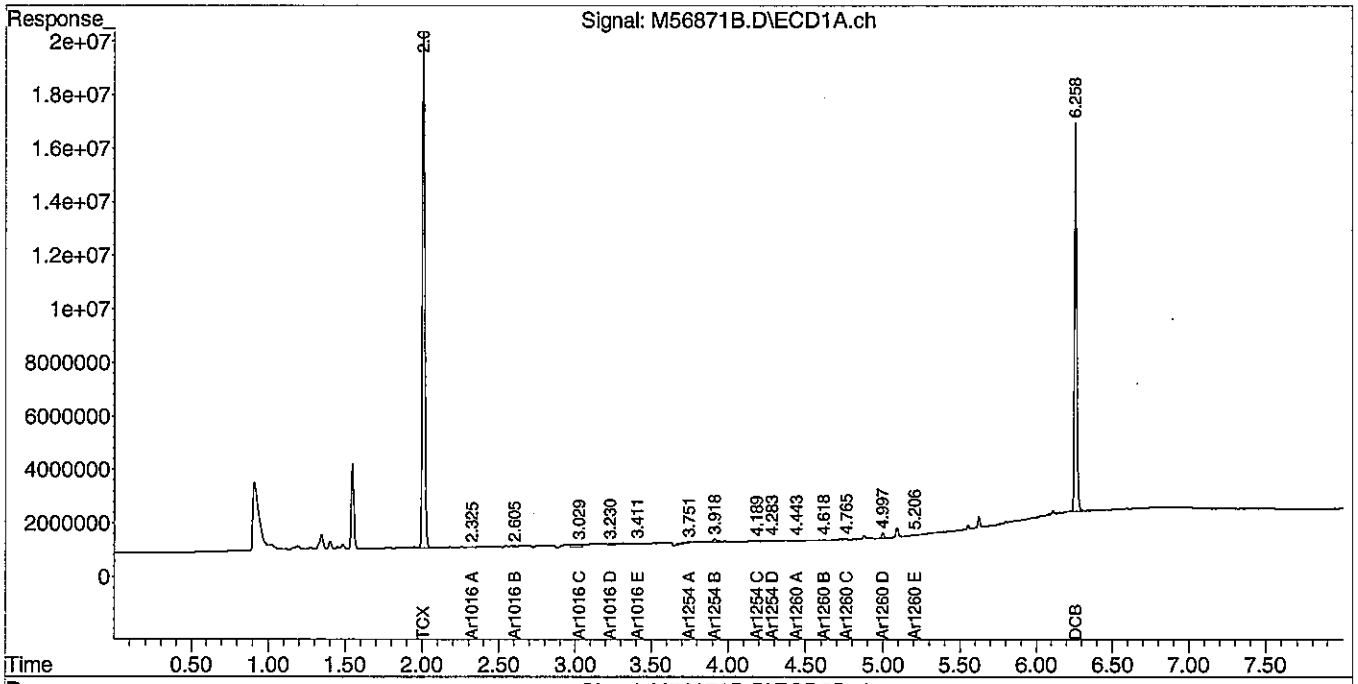
PCB Report

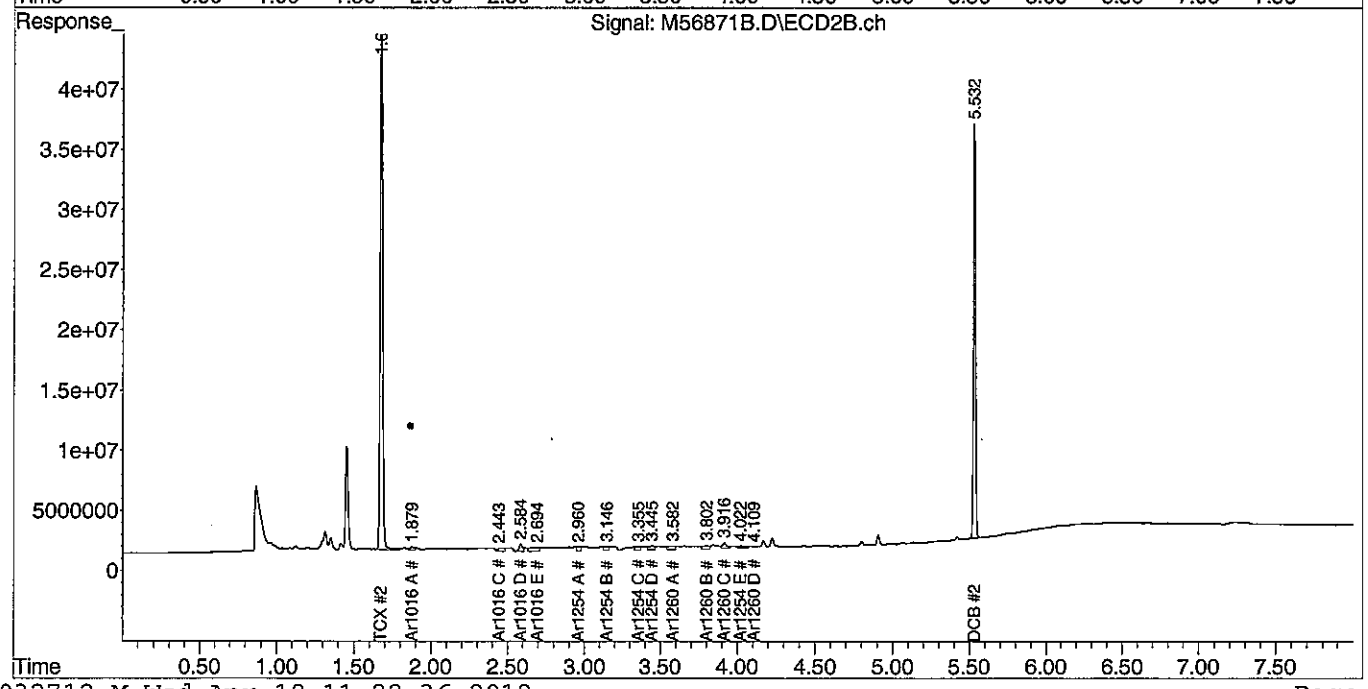
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56871B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 2:25 pm
Operator : JK
Sample : B041612PSOX,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:09 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:43 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

April 18, 2012

SAMPLE DATA

Lab Sample ID: B041612PSOX2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 04/16/12
Analysis Date: 04/17/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	83	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

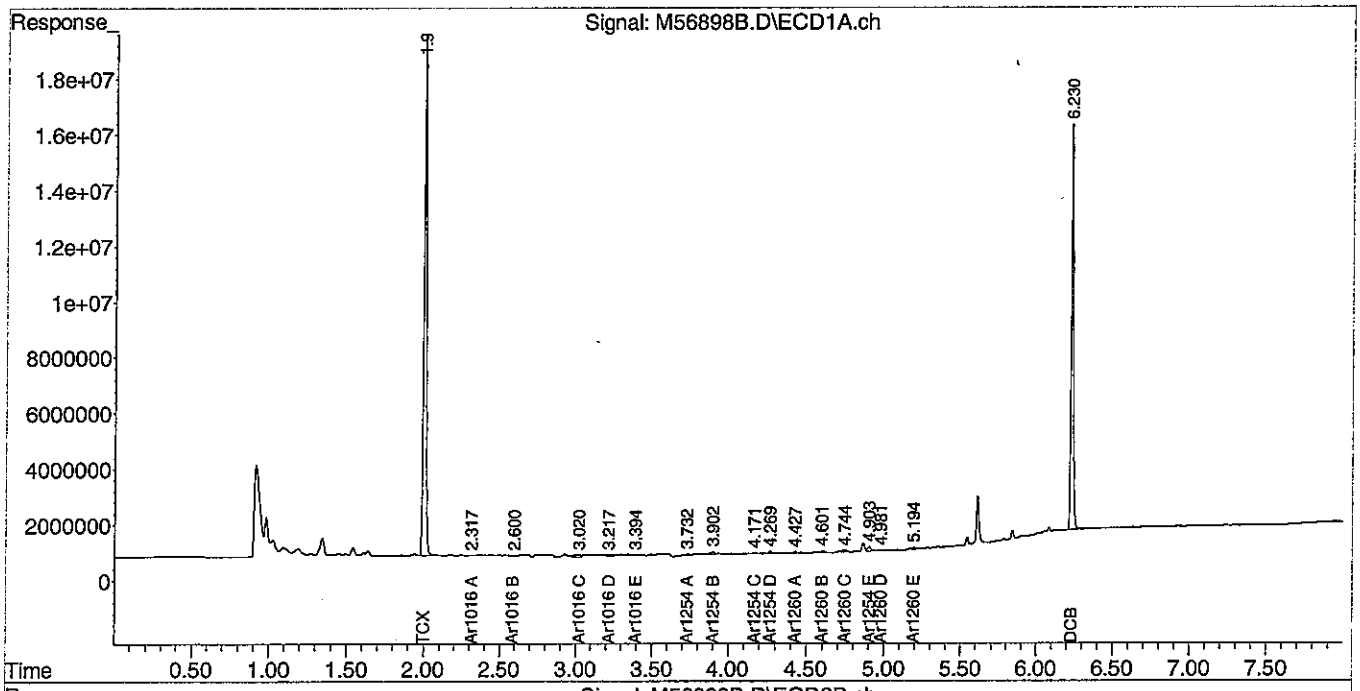
PCB Report

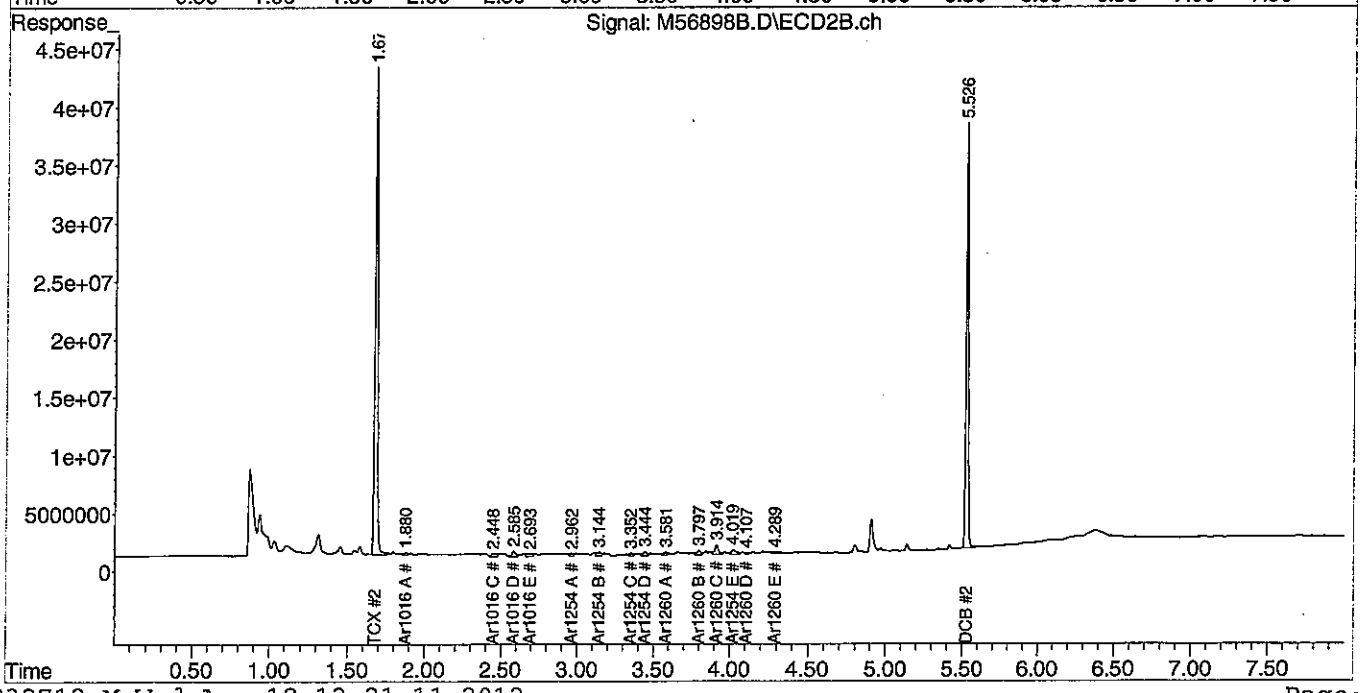
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56898B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 6:56 pm
Operator : JK
Sample : B041612PSOX2,,A/C
Misc : SOIL
ALS Vial : 29 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 12:20:33 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:43 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID: 72584-1
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 04/12/12
Lab Receipt Date: 04/13/12
Extraction Date: 04/16/12
Analysis Date: 04/17/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons
Project Number: 222822
Field Sample ID: UMSC-VWM-229

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**3.2**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	76	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jennifer Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-1,,A/C
Data File: M56874.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	3.2	2.8	12.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

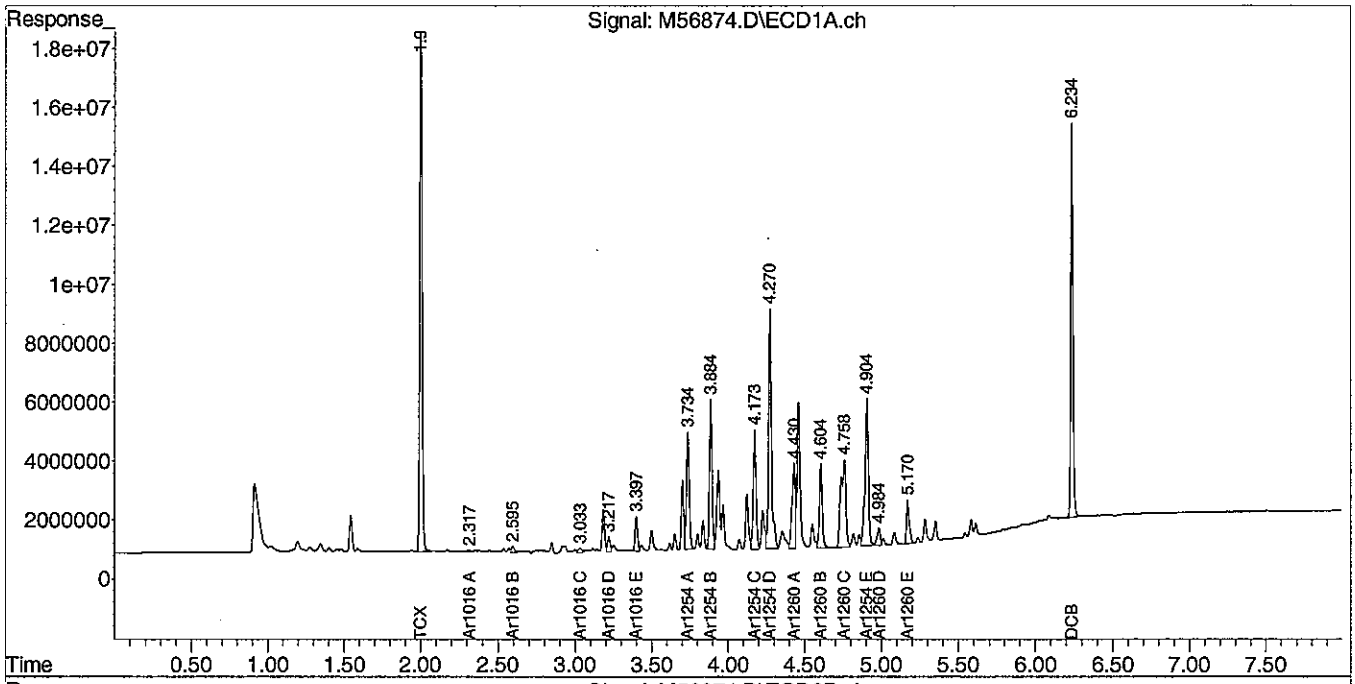
Comments: _____

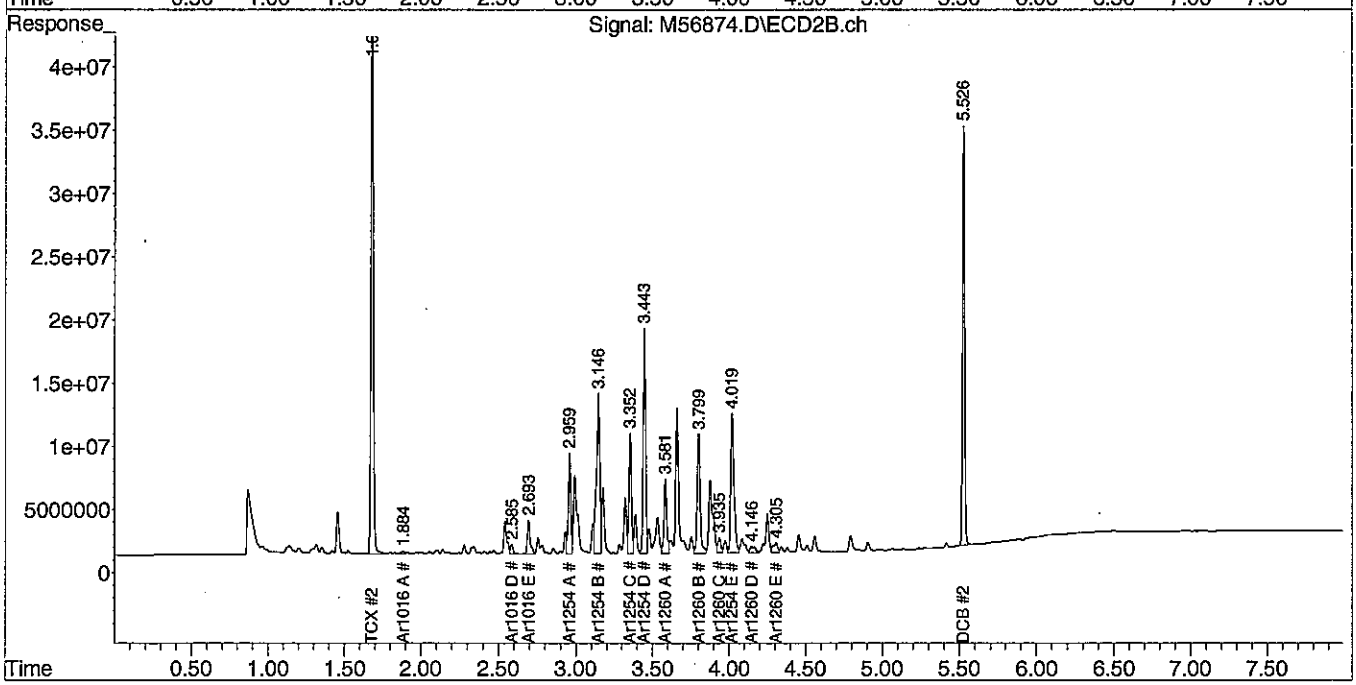
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56874.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 2:55 pm
Operator : JK
Sample : 72584-1,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

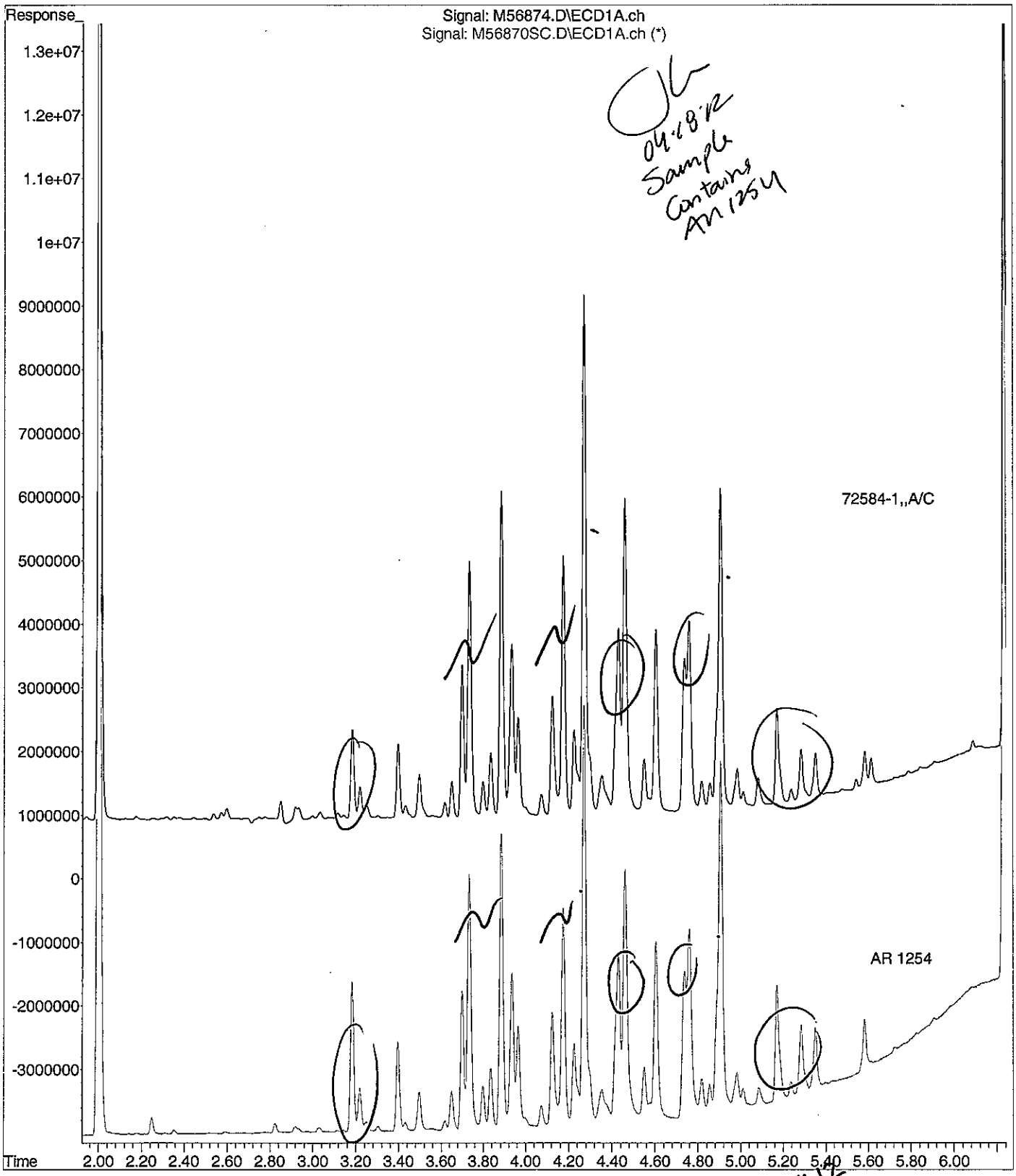
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:24:44 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\041712-M\M56874.D
Operator : JK
Acquired : 17 Apr 2012 2:55 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72584-1,,A/C
Misc Info : SOIL
Vial Number: 9



JK 4.18.12

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SAMPLE DATA

Lab Sample ID:	72584-2
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-230

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	75	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

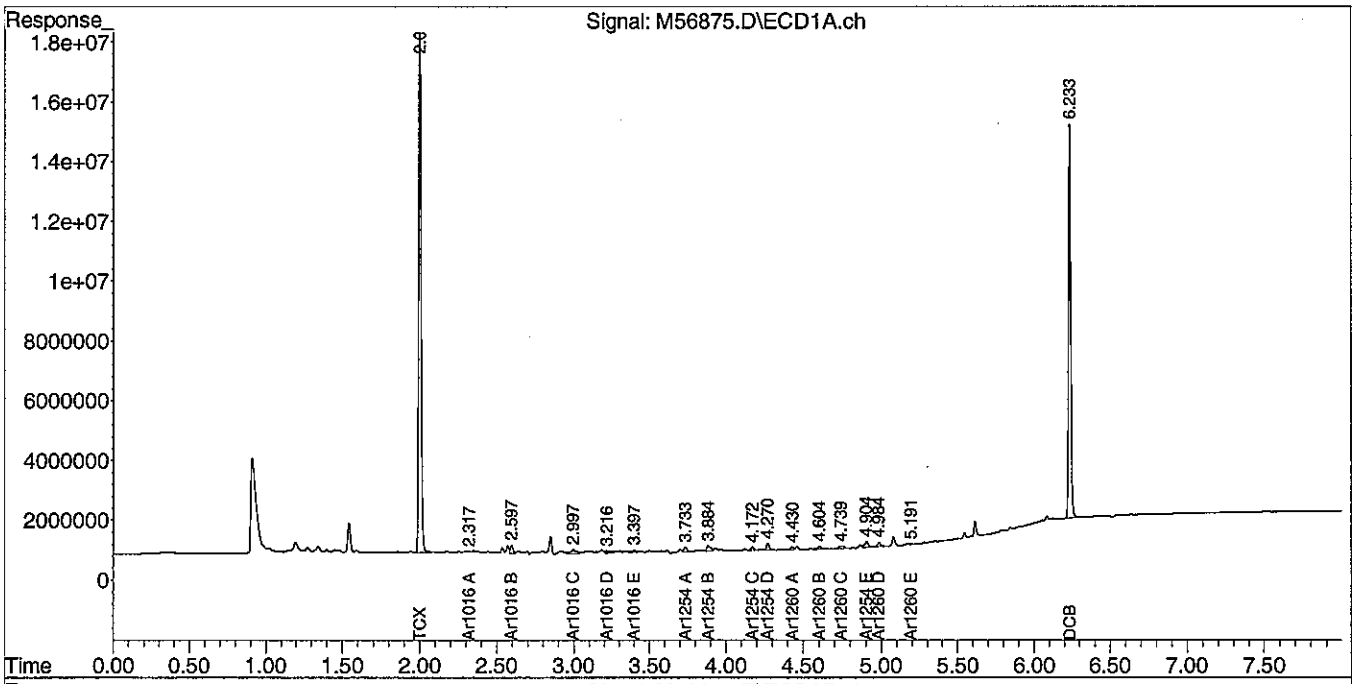
PCB Report

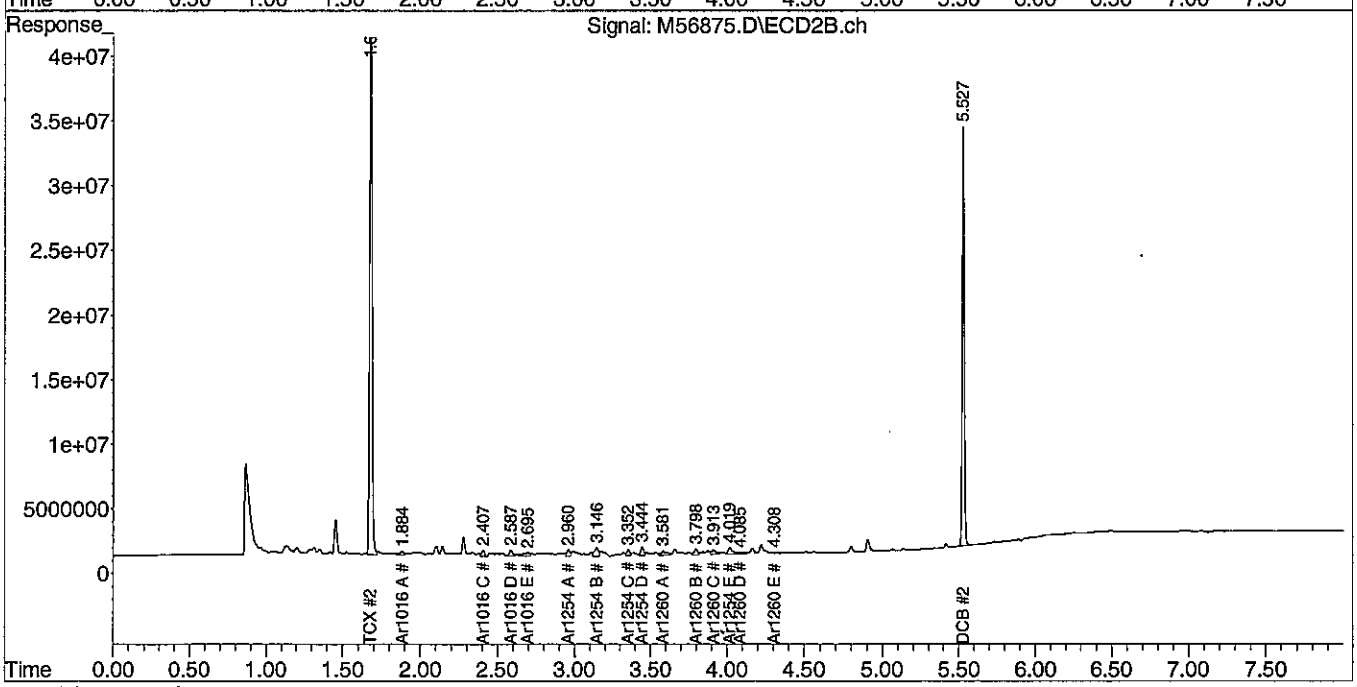
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56875.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 3:05 pm
Operator : JK
Sample : 72584-2,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:17 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72584-3
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-231

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	75	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

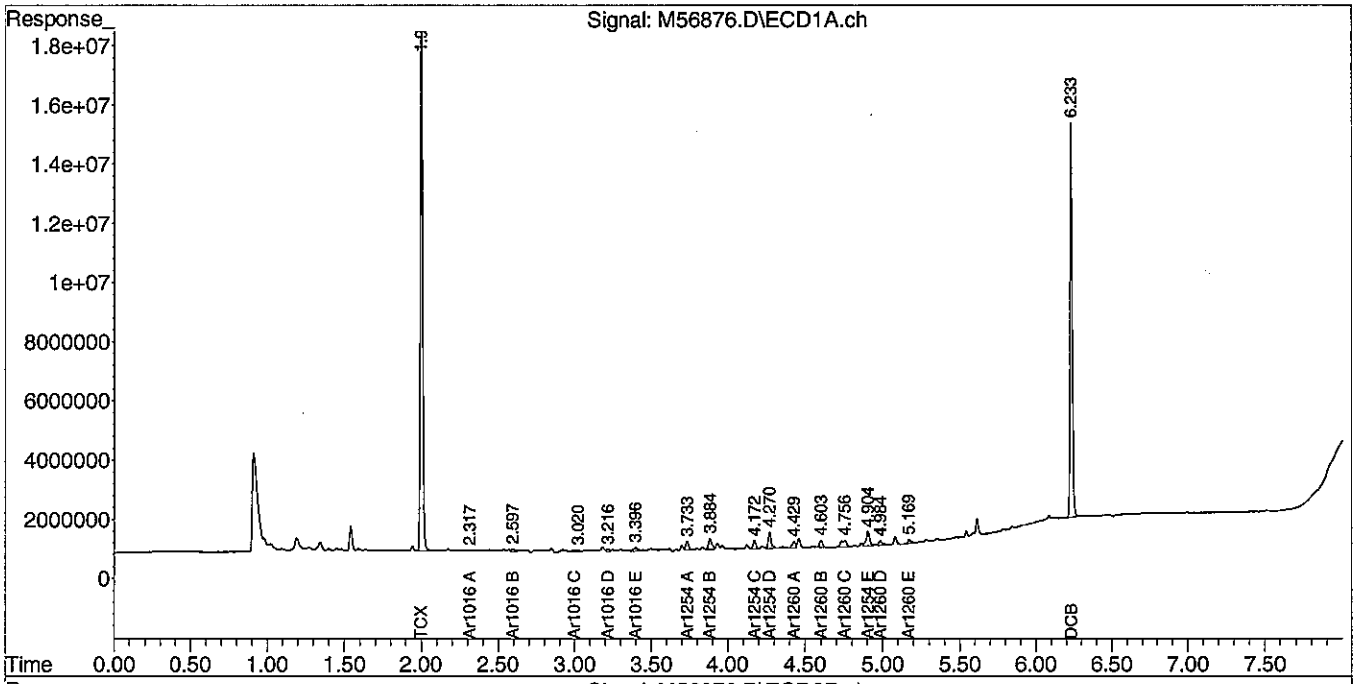
PCB Report

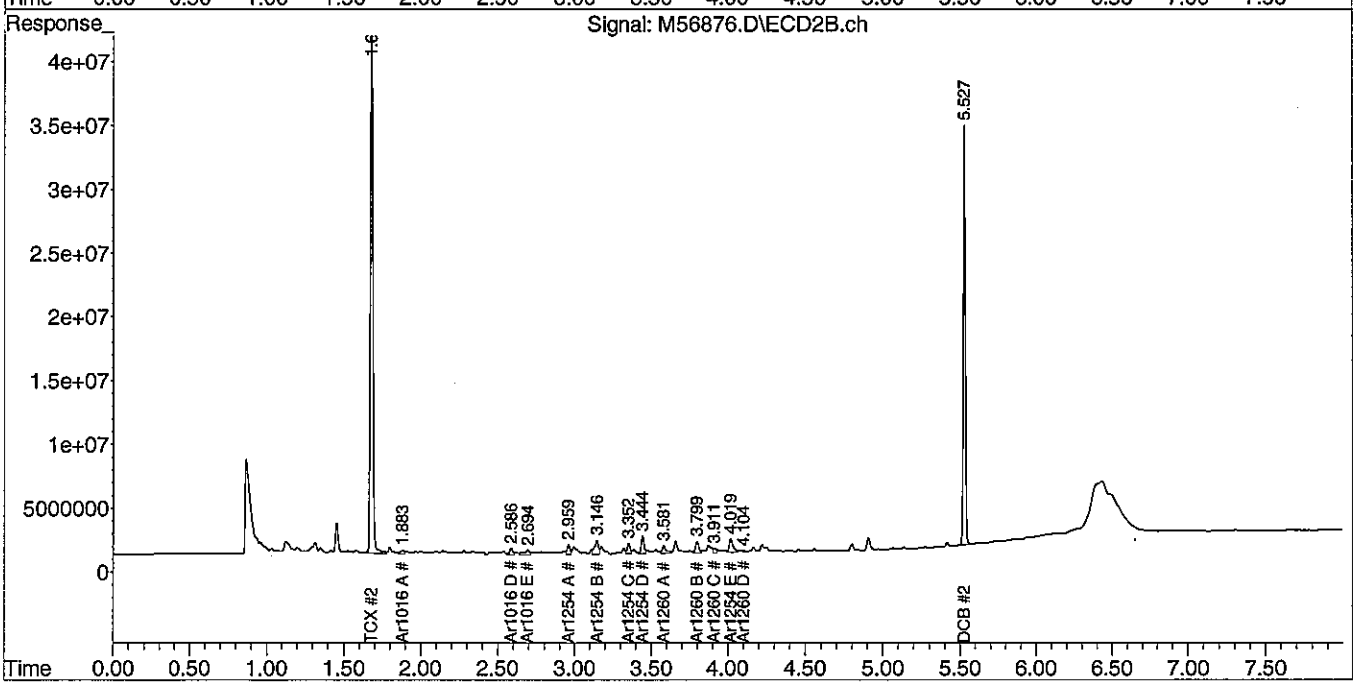
Authorized signature Jemma Jenny

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56876.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 3:15 pm
Operator : JK
Sample : 72584-3,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:19 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-4
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-232

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.5**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	73	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jenna Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-4,,A/C
Data File: M56877.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.5	0.5	2.6	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

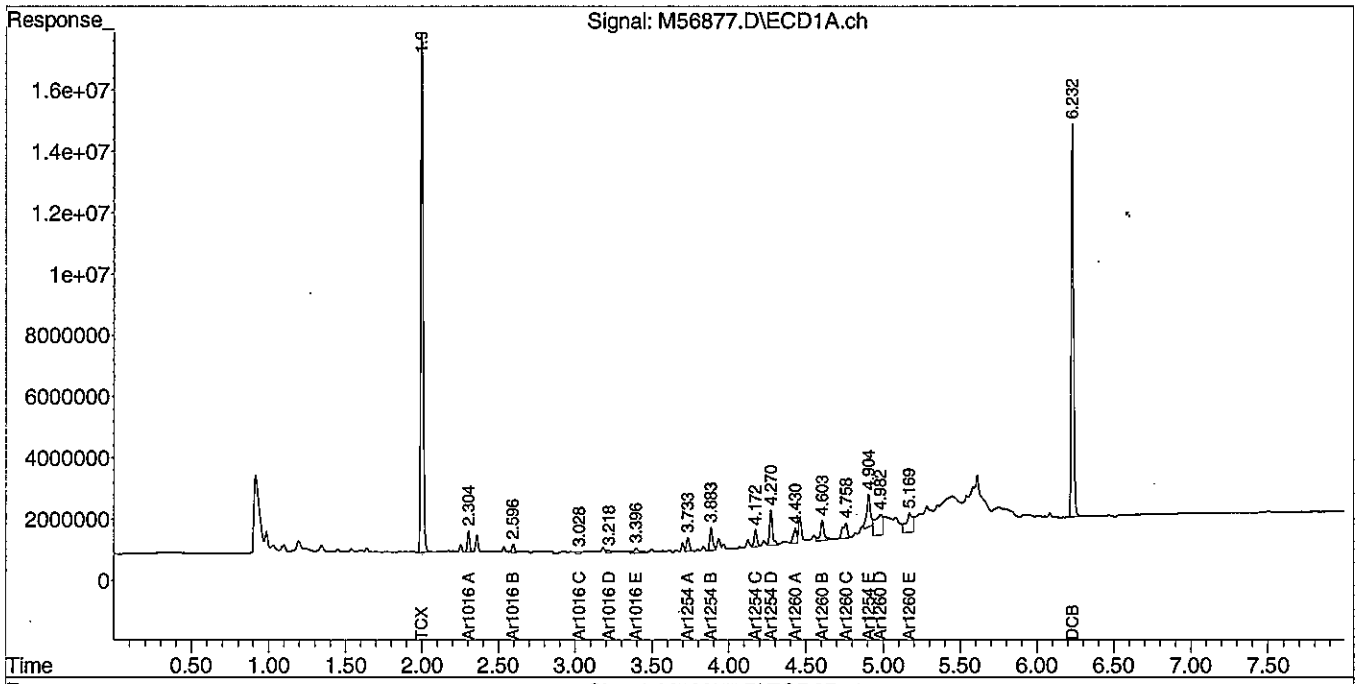
Comments: _____

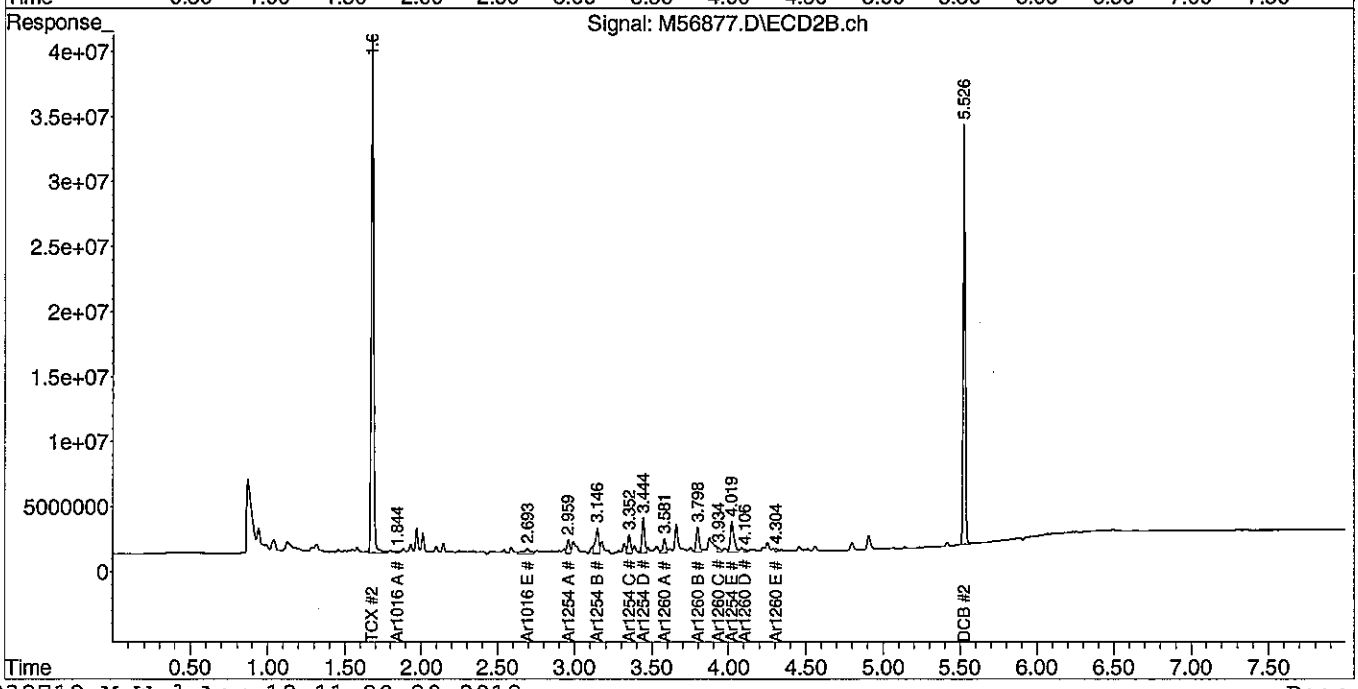
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56877.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 3:25 pm
Operator : JK
Sample : 72584-4,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:29:09 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72584-5
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-233

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	74	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

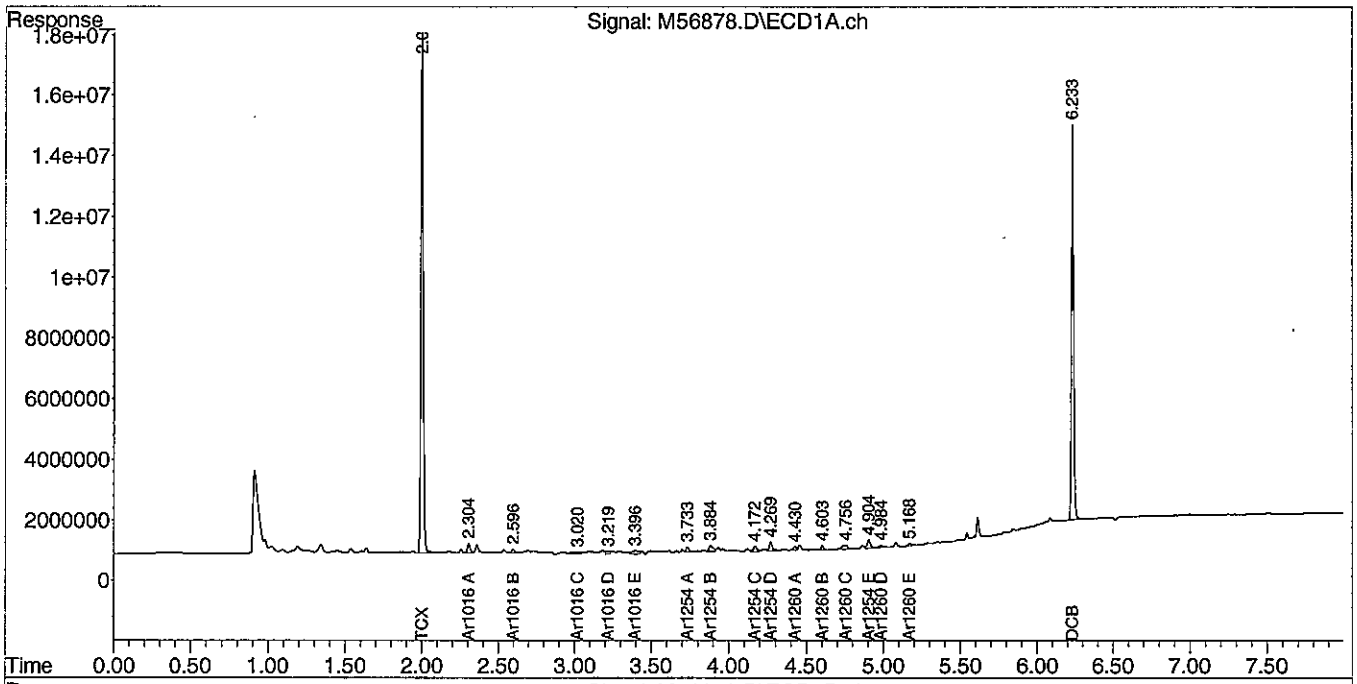
PCB Report

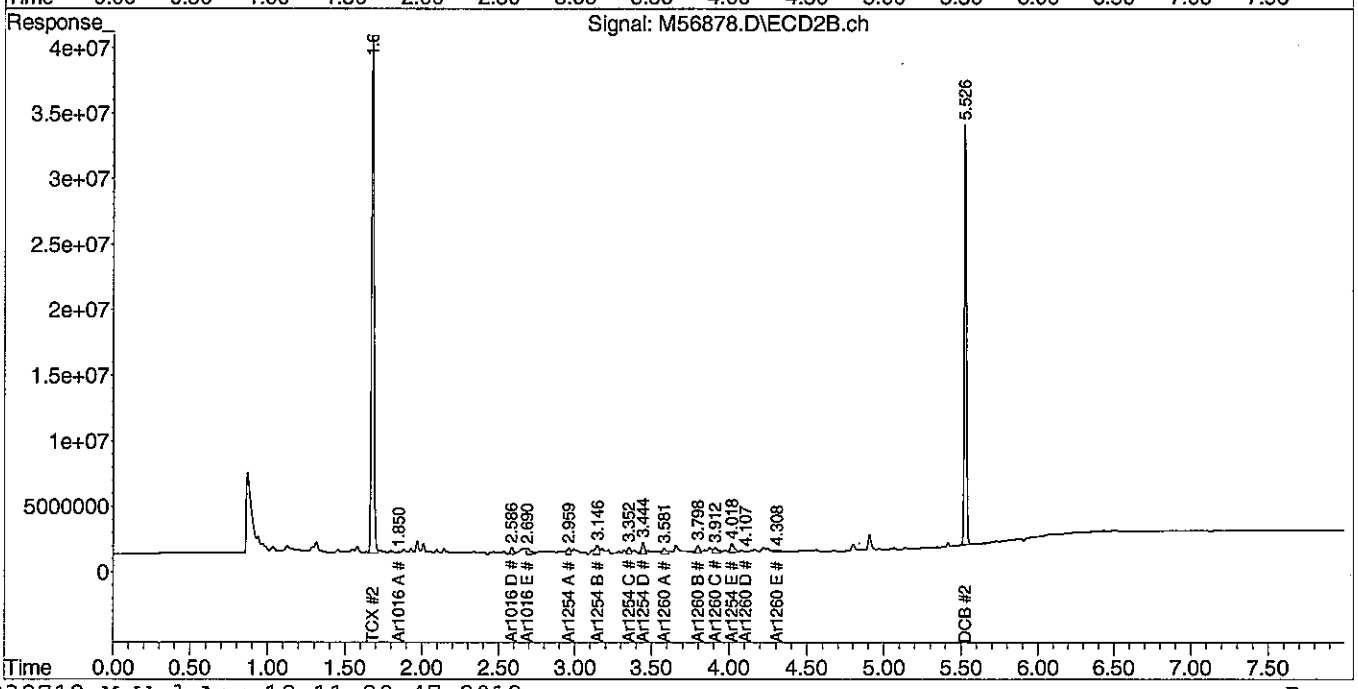
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56878.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 3:35 pm
Operator : JK
Sample : 72584-5,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:23 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-6
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-234

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	95	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

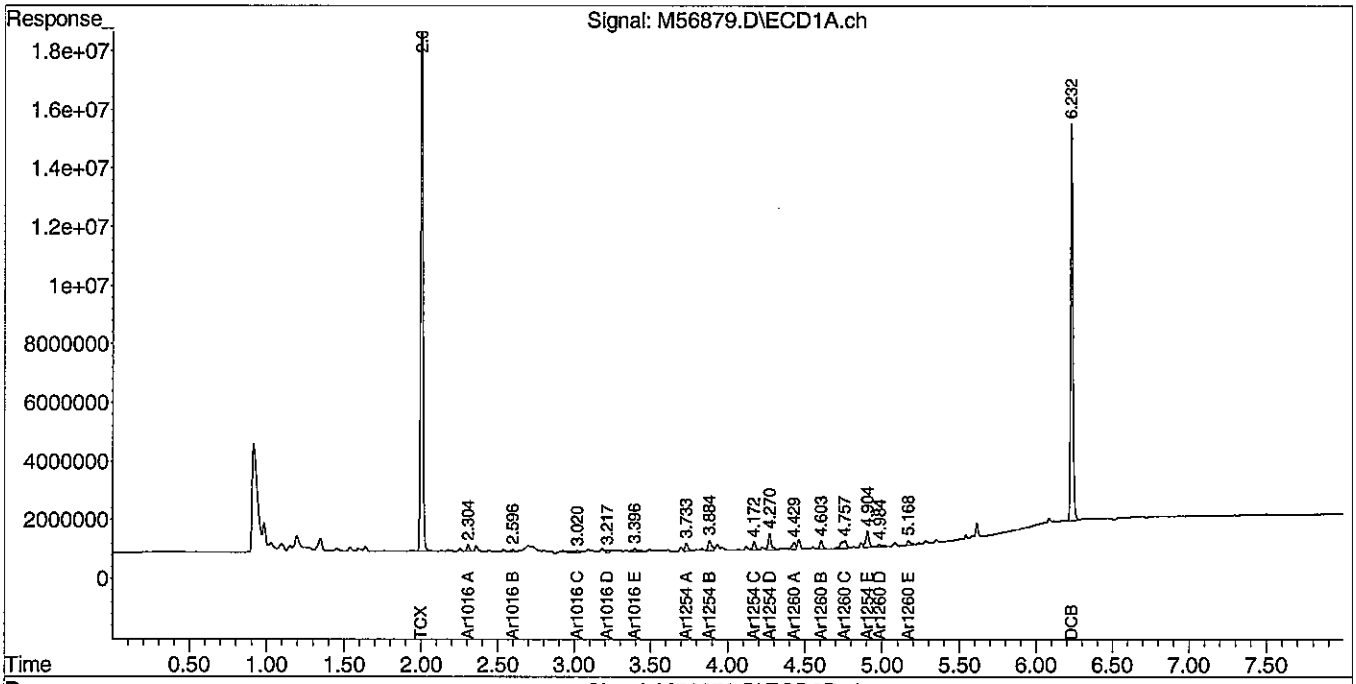
PCB Report

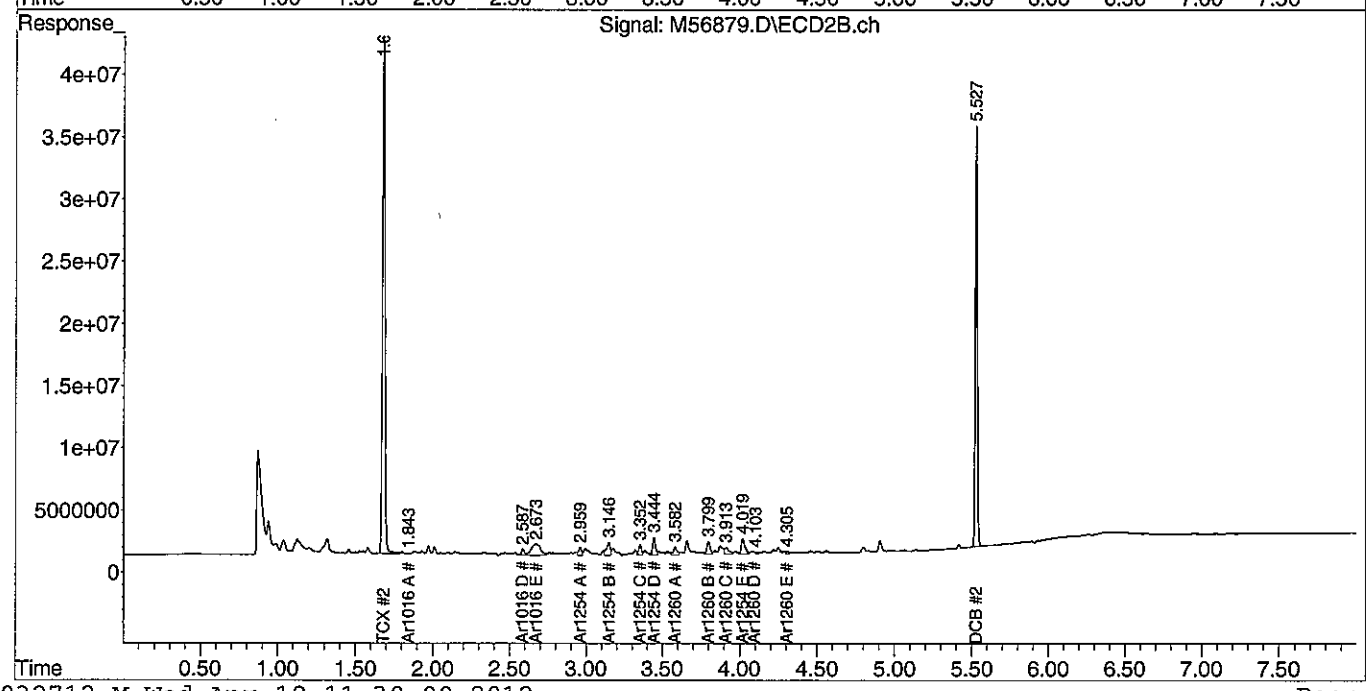
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56879.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 3:45 pm
Operator : JK
Sample : 72584-6,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:25 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

April 18, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWM-235

Lab Sample ID: 72584-7
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 04/12/12
Lab Receipt Date: 04/13/12
Extraction Date: 04/16/12
Analysis Date: 04/17/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	75	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

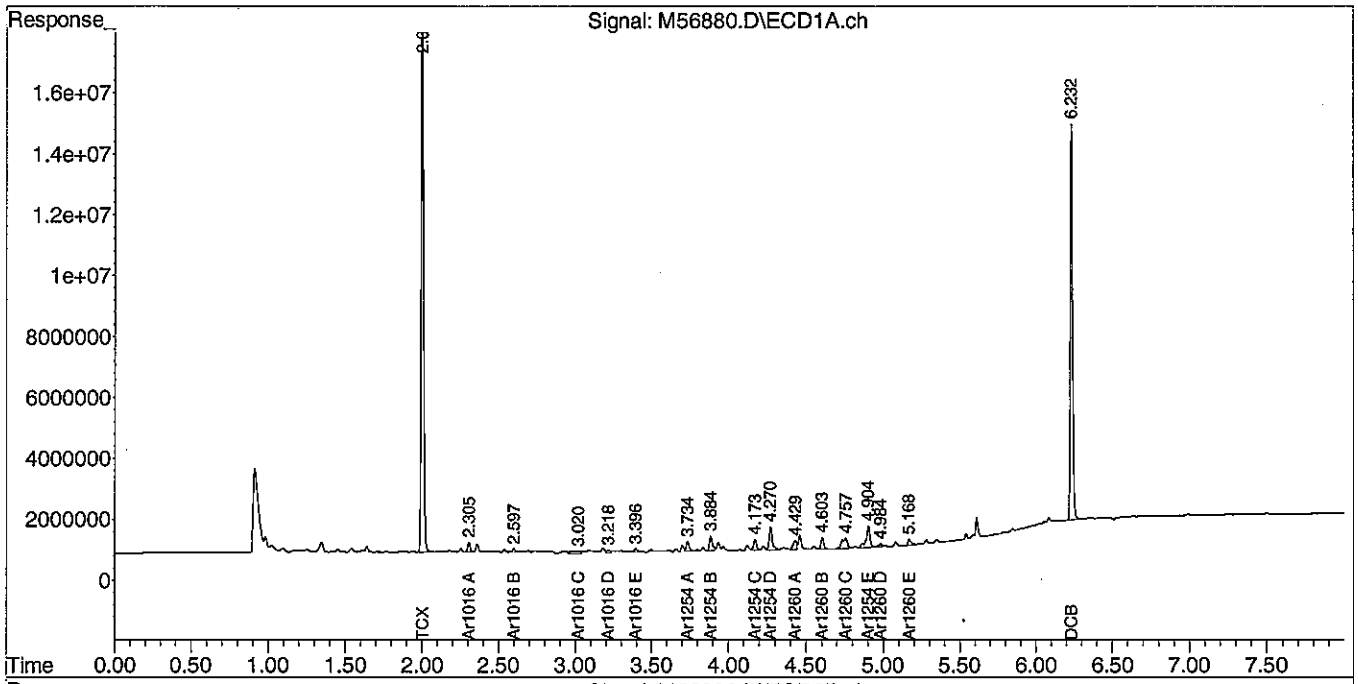
PCB Report

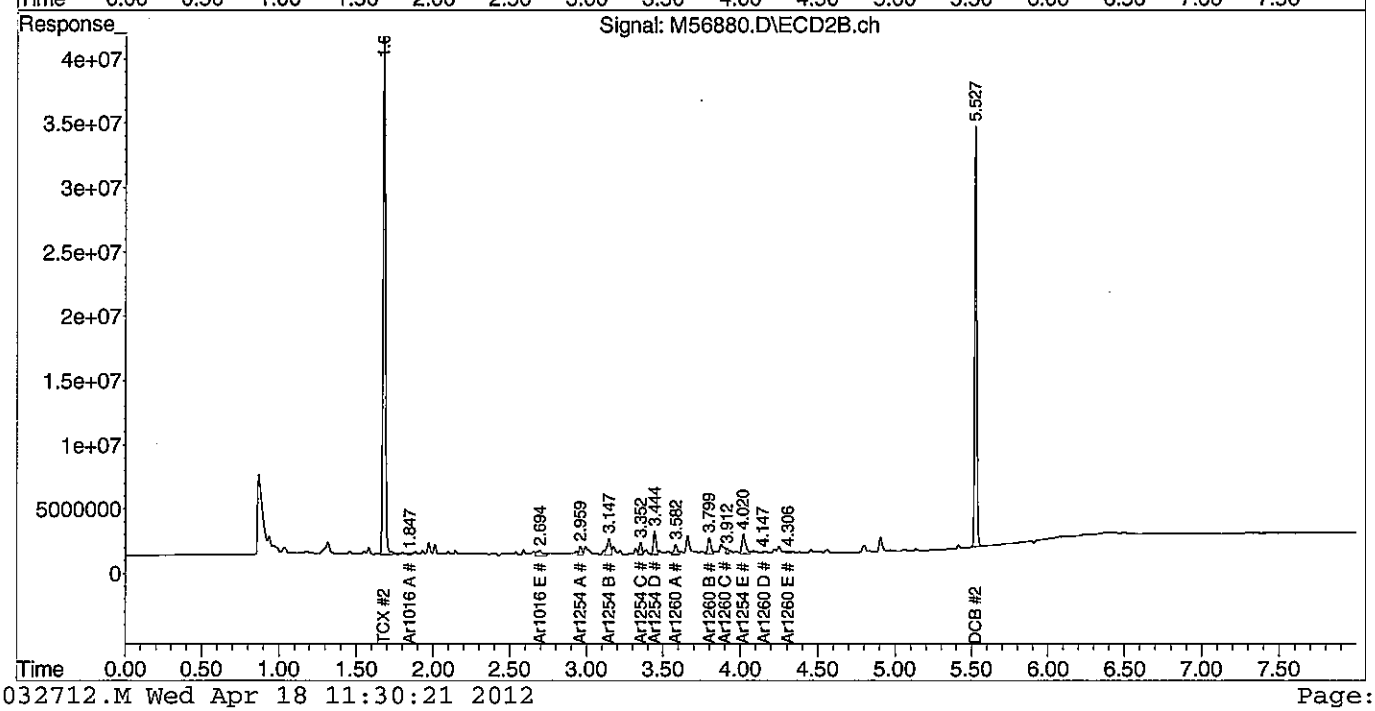
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56880.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 3:55 pm
Operator : JK
Sample : 72584-7,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:27 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-8
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-236

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

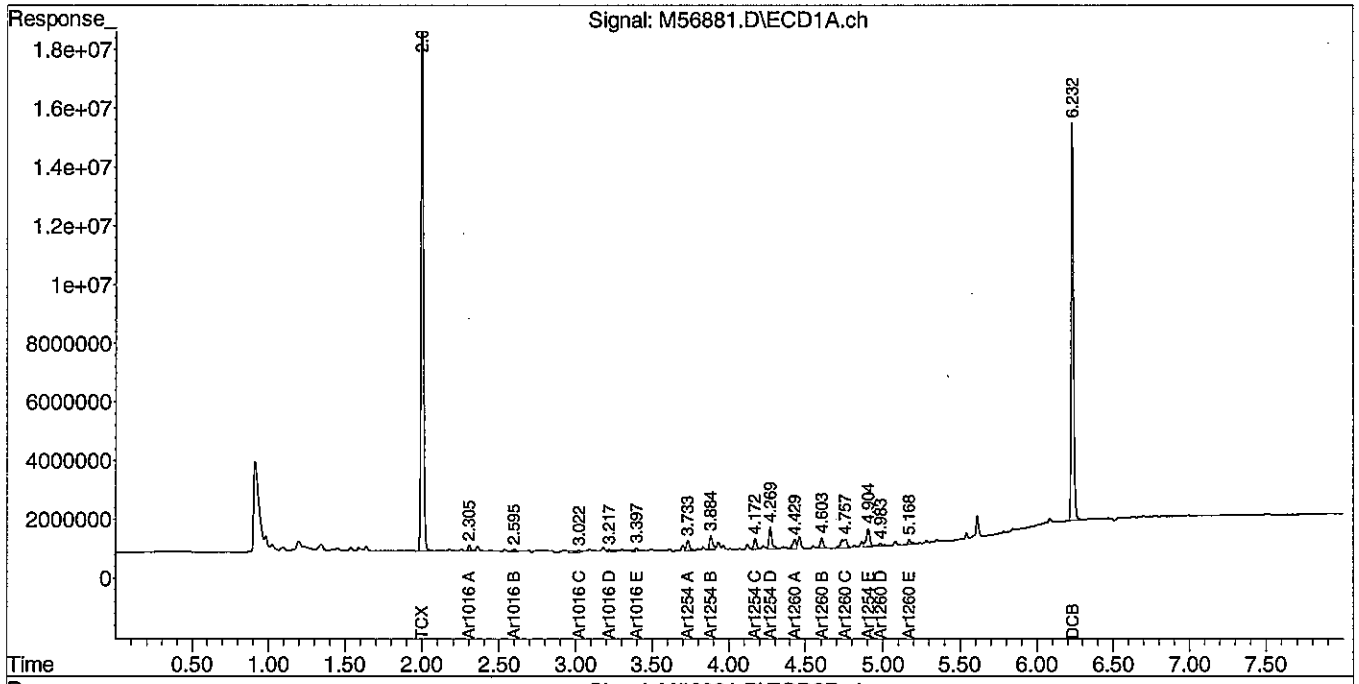
PCB Report

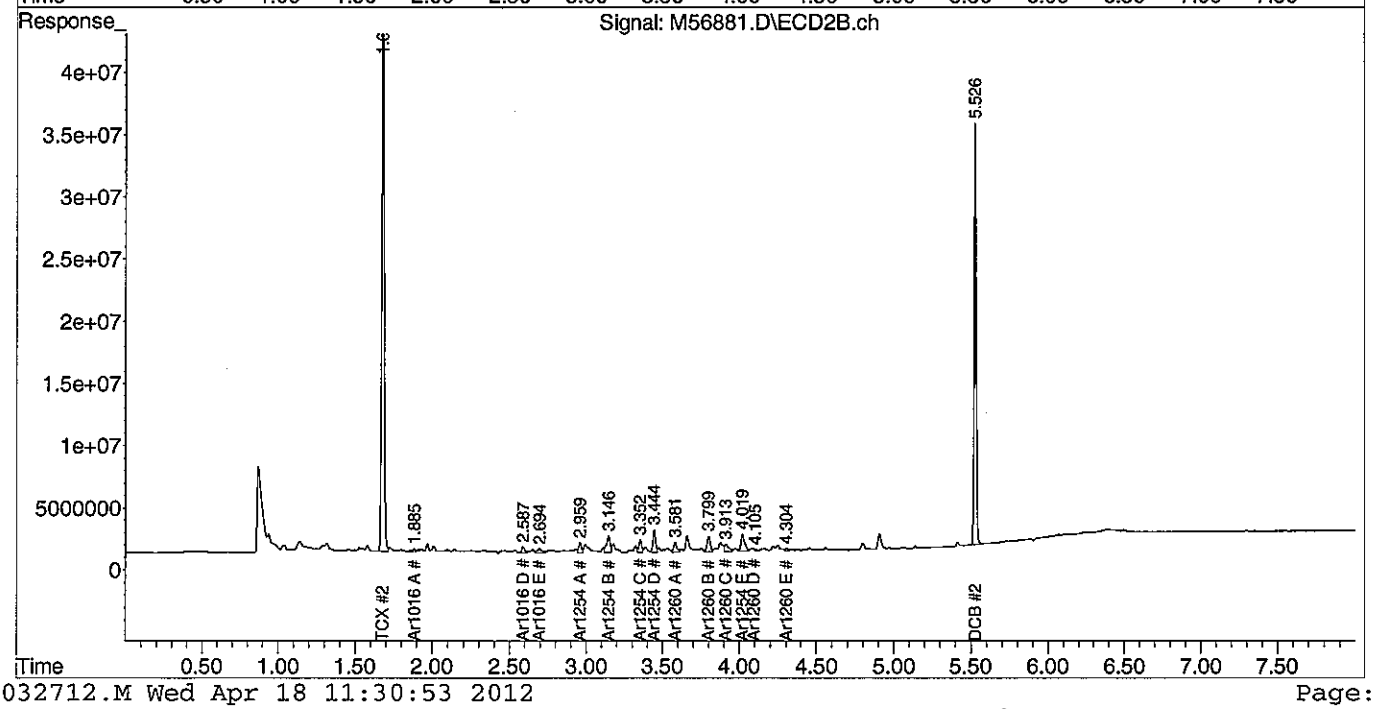
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56881.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 4:05 pm
Operator : JK
Sample : 72584-8,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:29 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWM-237

Lab Sample ID: 72584-9
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 04/12/12
Lab Receipt Date: 04/13/12
Extraction Date: 04/16/12
Analysis Date: 04/17/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

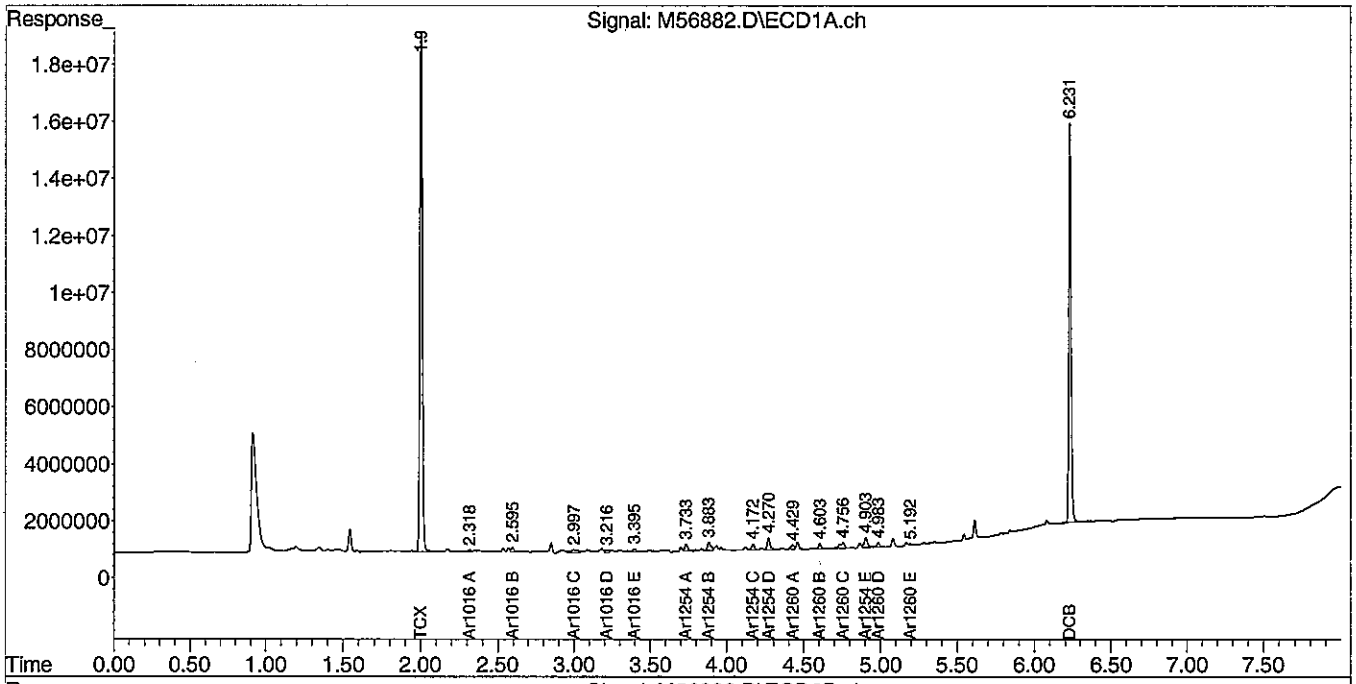
PCB Report

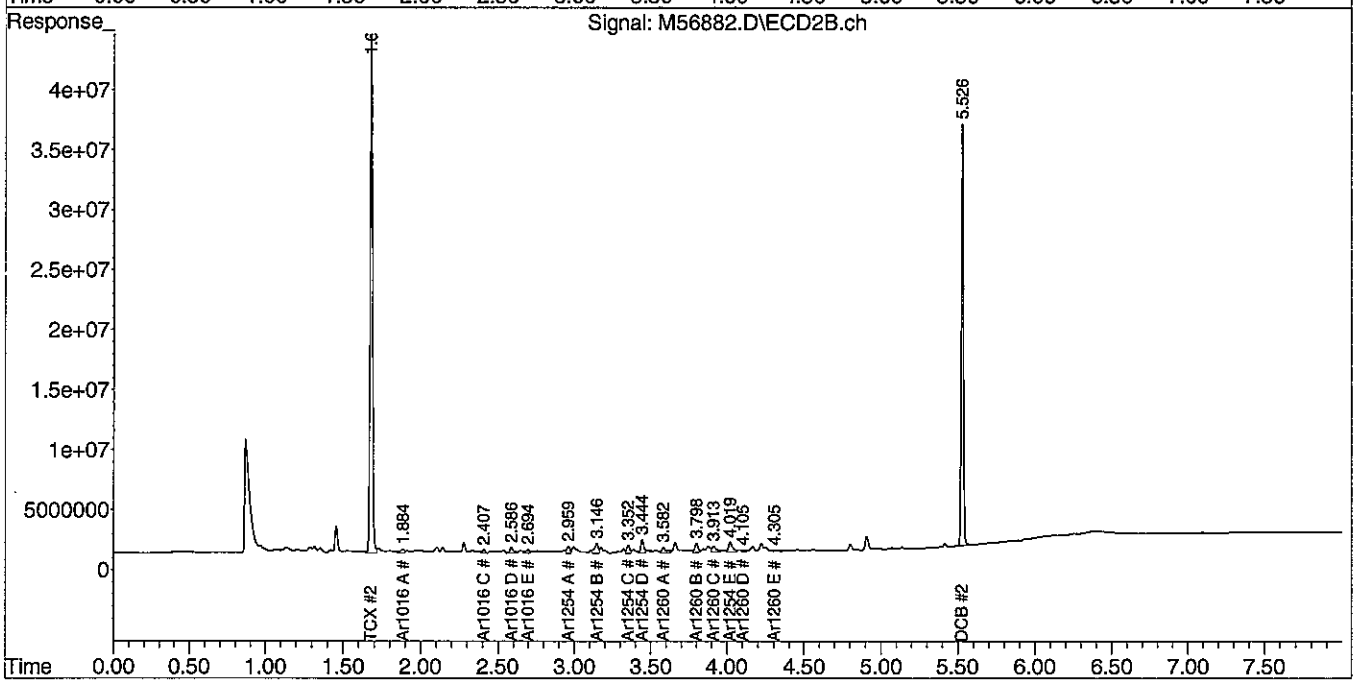
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56882.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 4:15 pm
Operator : JK
Sample : 72584-9,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:31 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-10
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-238

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

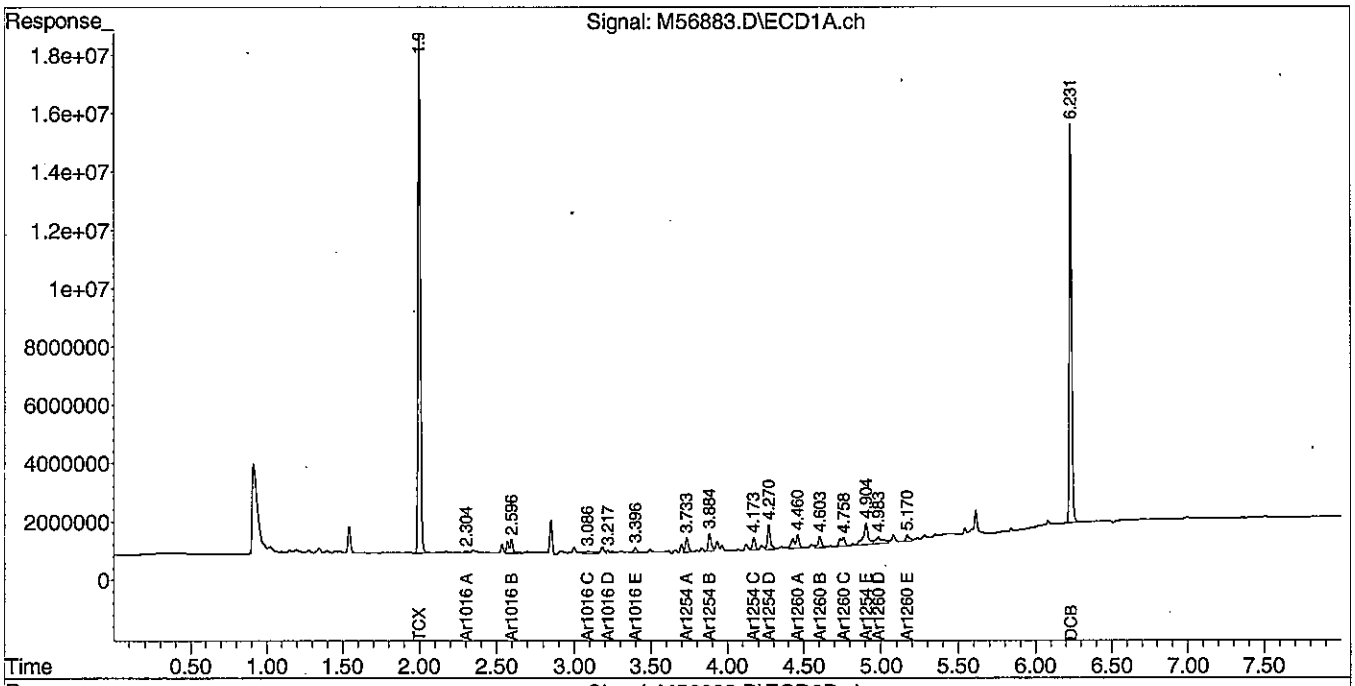
PCB Report

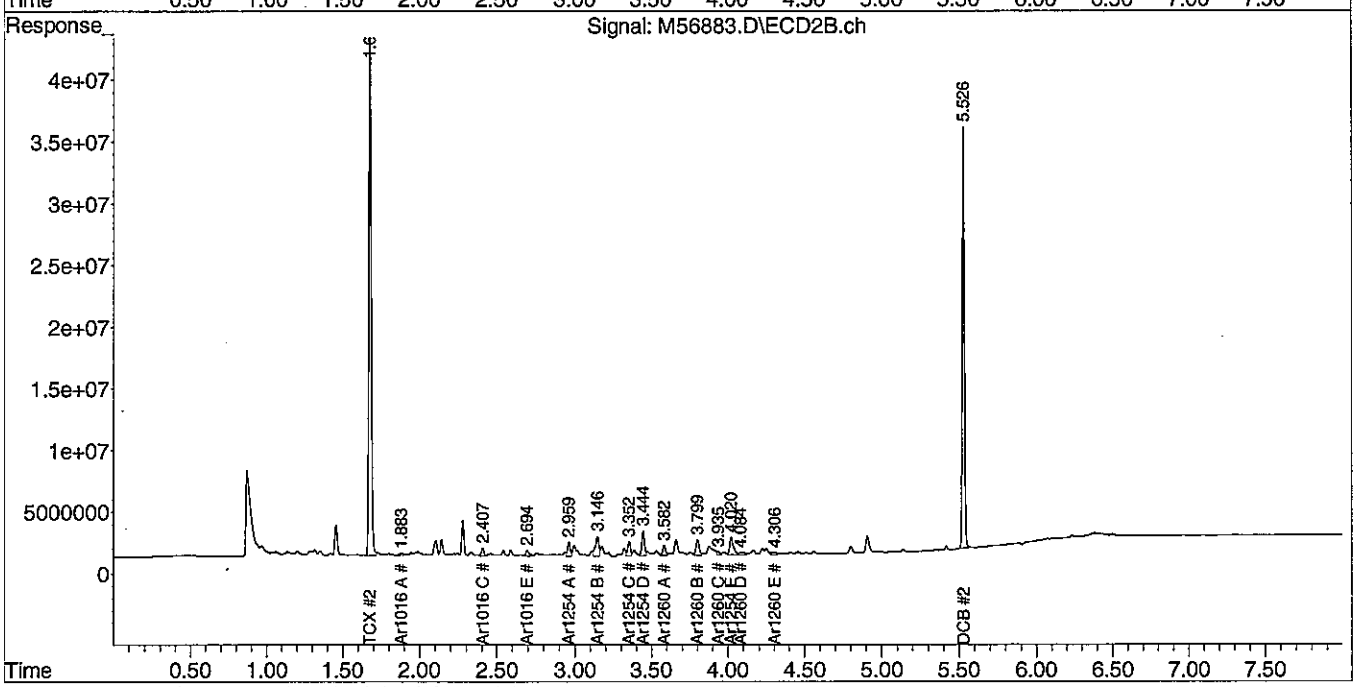
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56883.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 4:25 pm
Operator : JK
Sample : 72584-10,,A/C
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:33 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-11
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-239

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.7**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-11,,A/C
Data File: M56884.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.7	0.7	5.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

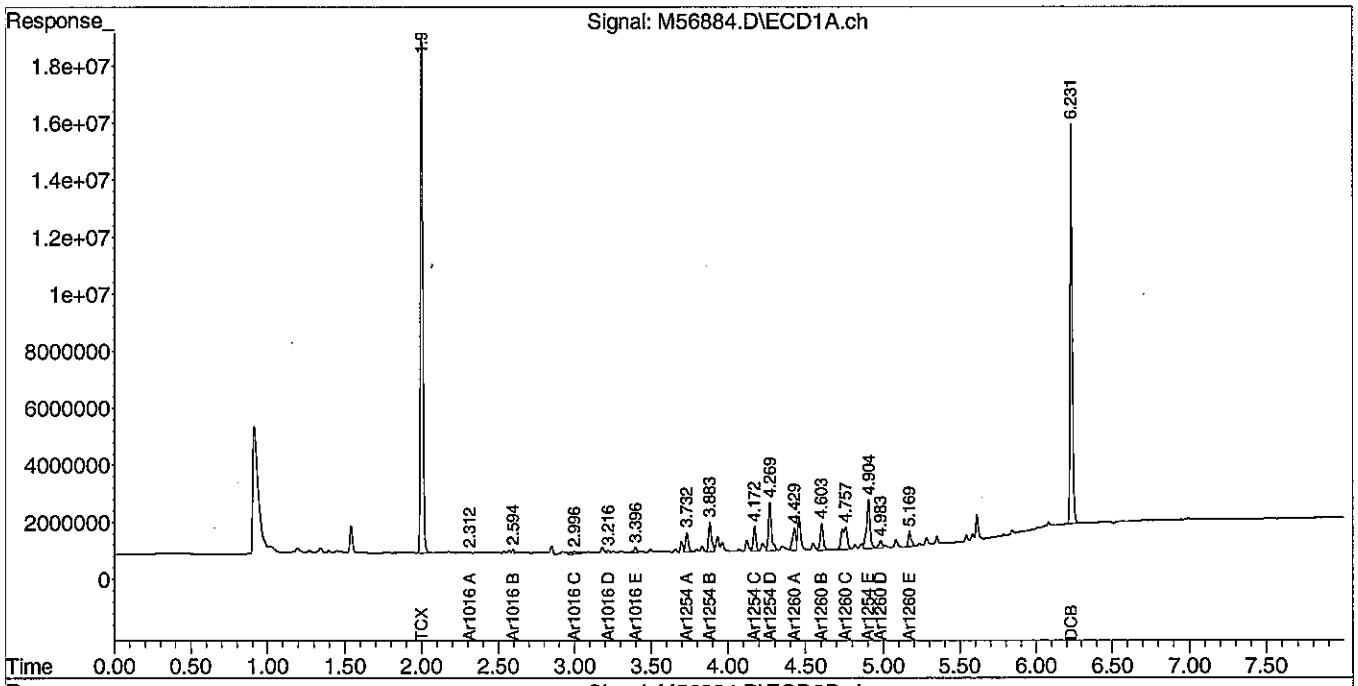
Comments: _____

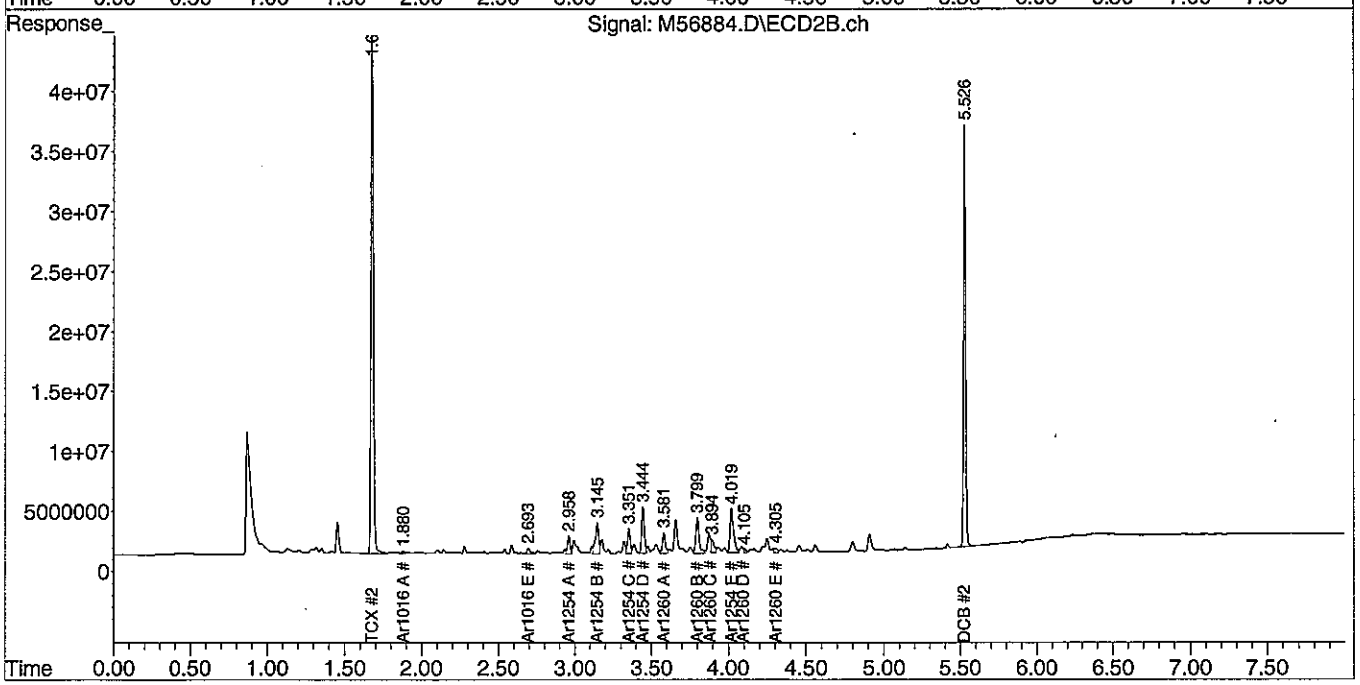
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56884.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 4:35 pm
Operator : JK
Sample : 72584-11,,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:35 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-12
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-240

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.6**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Fenig

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-12,,A/C
Data File: M56885.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.6	0.6	2.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

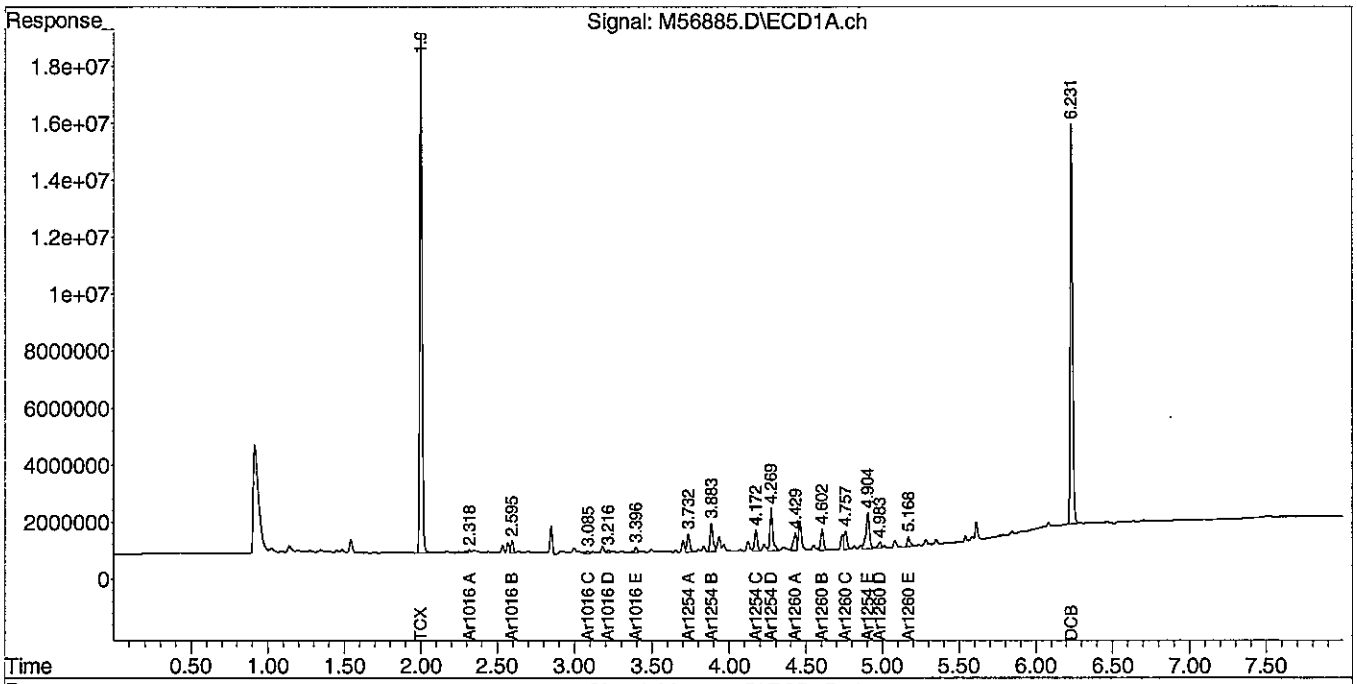
Comments: _____

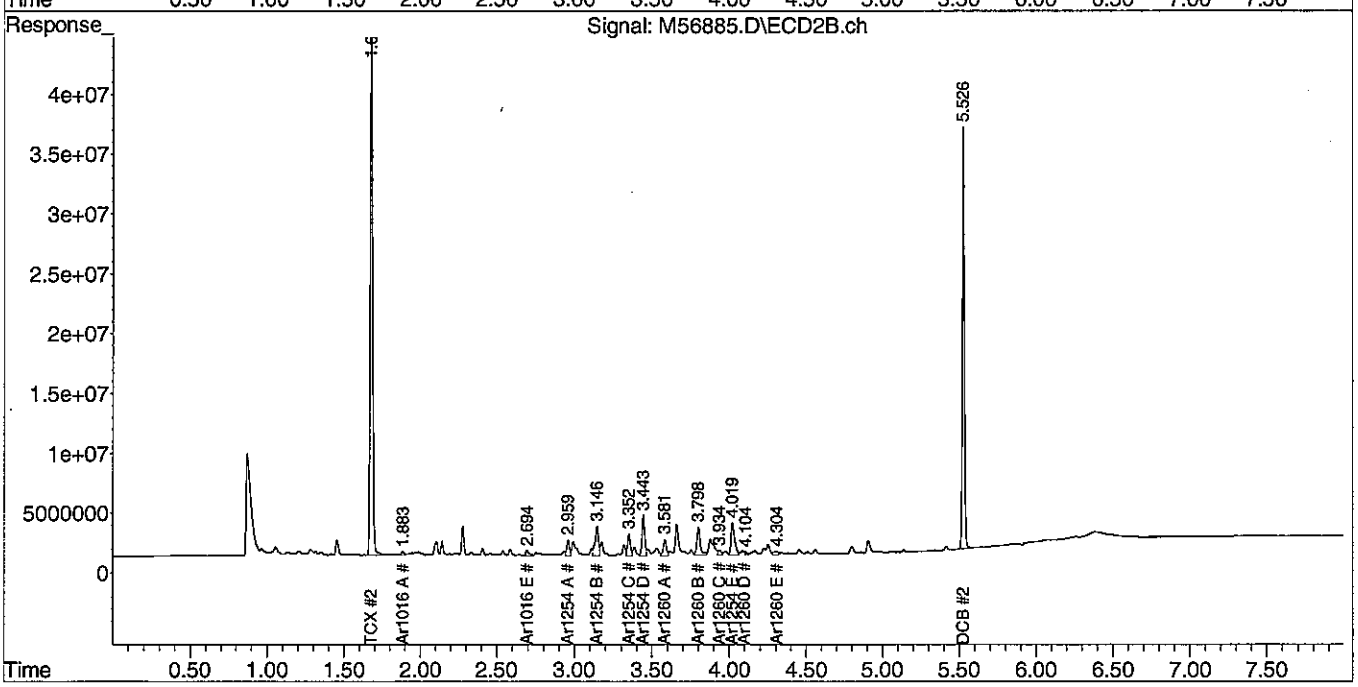
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56885.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 4:45 pm
Operator : JK
Sample : 72584-12,,A/C
Misc : SOIL
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:37 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-13
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-241

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**6.4**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-13,,A/C
Data File: M56886.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	6.4	5.7	12.4	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

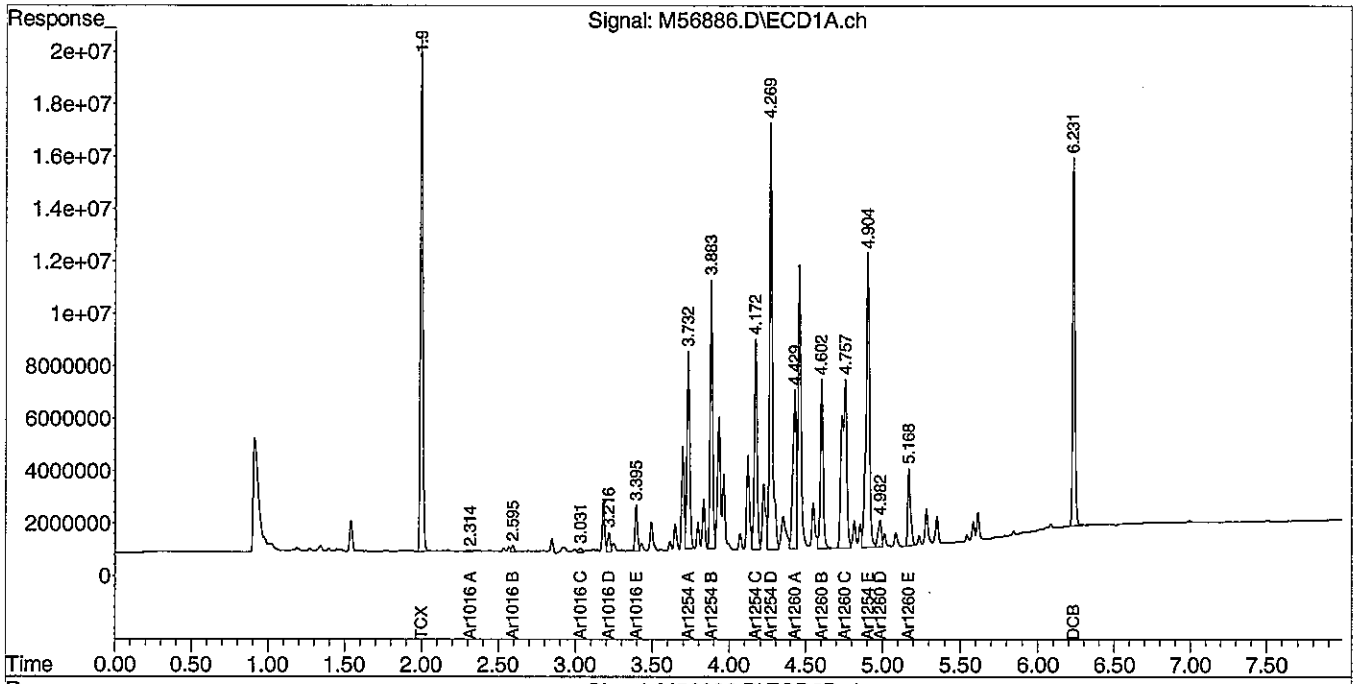
Comments: _____

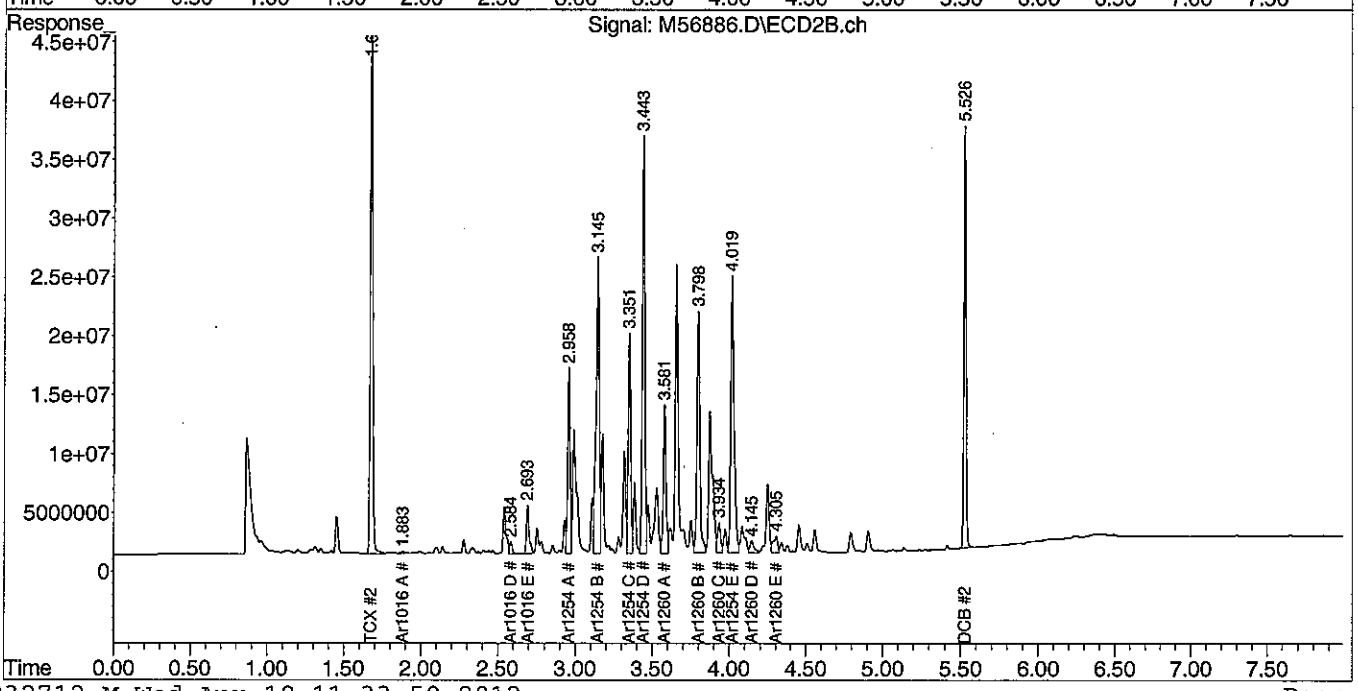
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56886.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 4:55 pm
Operator : JK
Sample : 72584-13,,A/C
Misc : SOIL
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:33:50 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-14
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-242

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	95	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

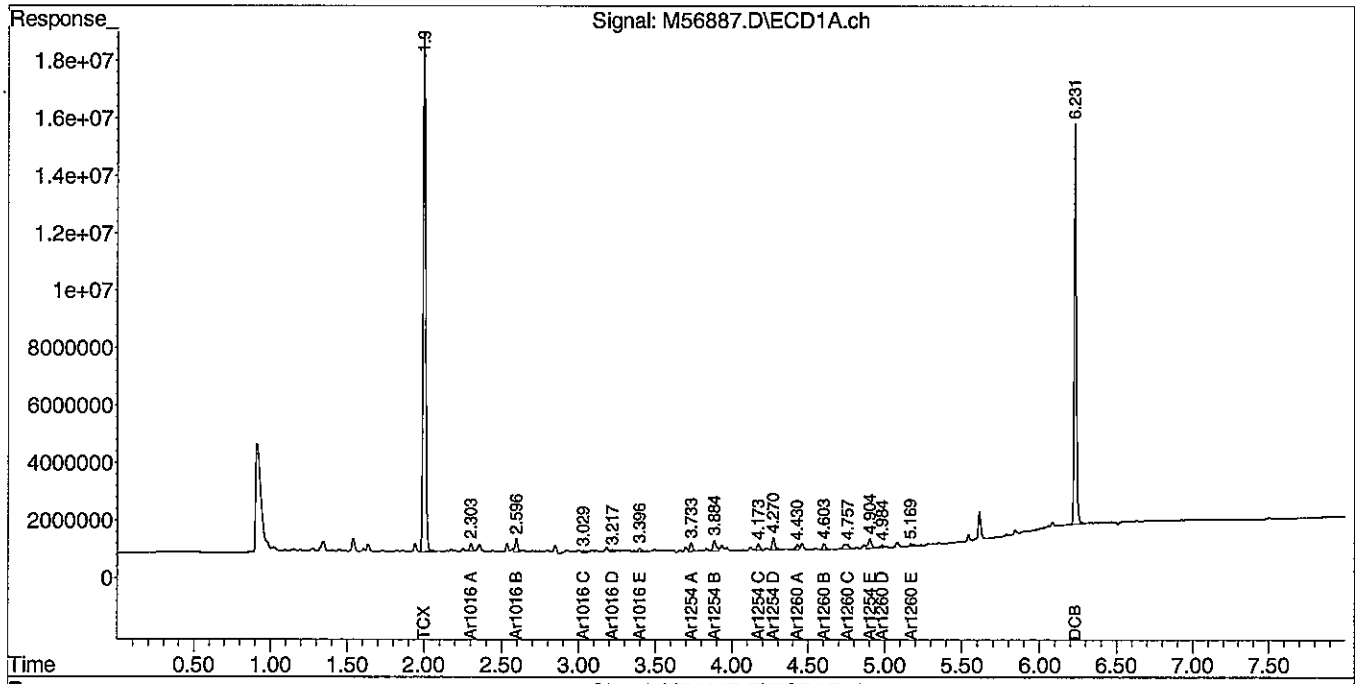
PCB Report

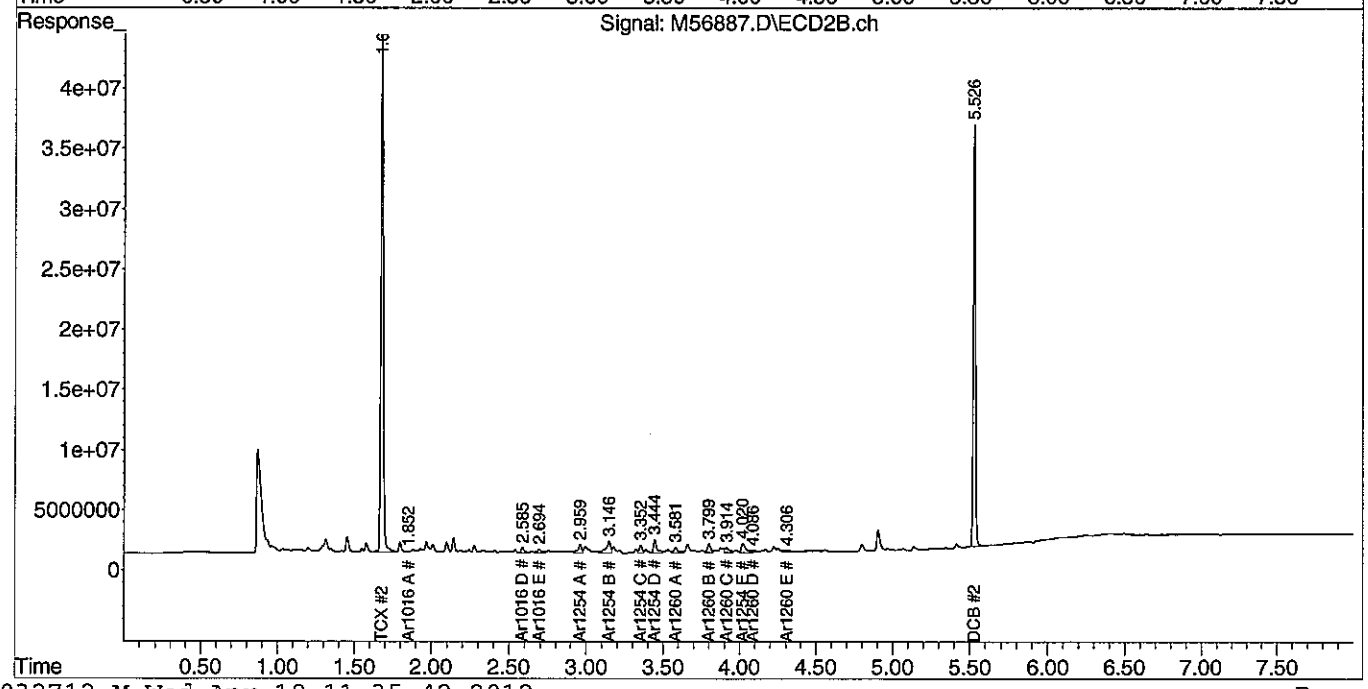
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56887.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 5:05 pm
Operator : JK
Sample : 72584-14,,A/C
Misc : SOIL
ALS Vial : 22 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:41 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-15
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-243

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

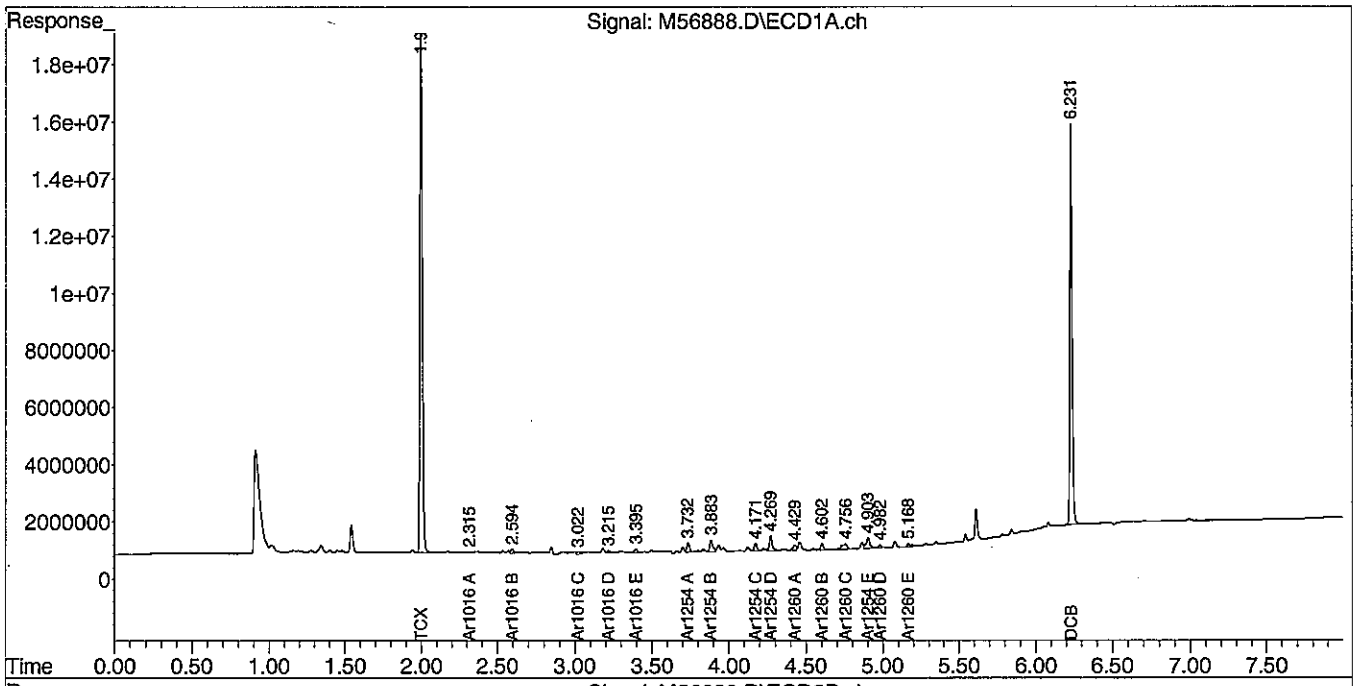
PCB Report

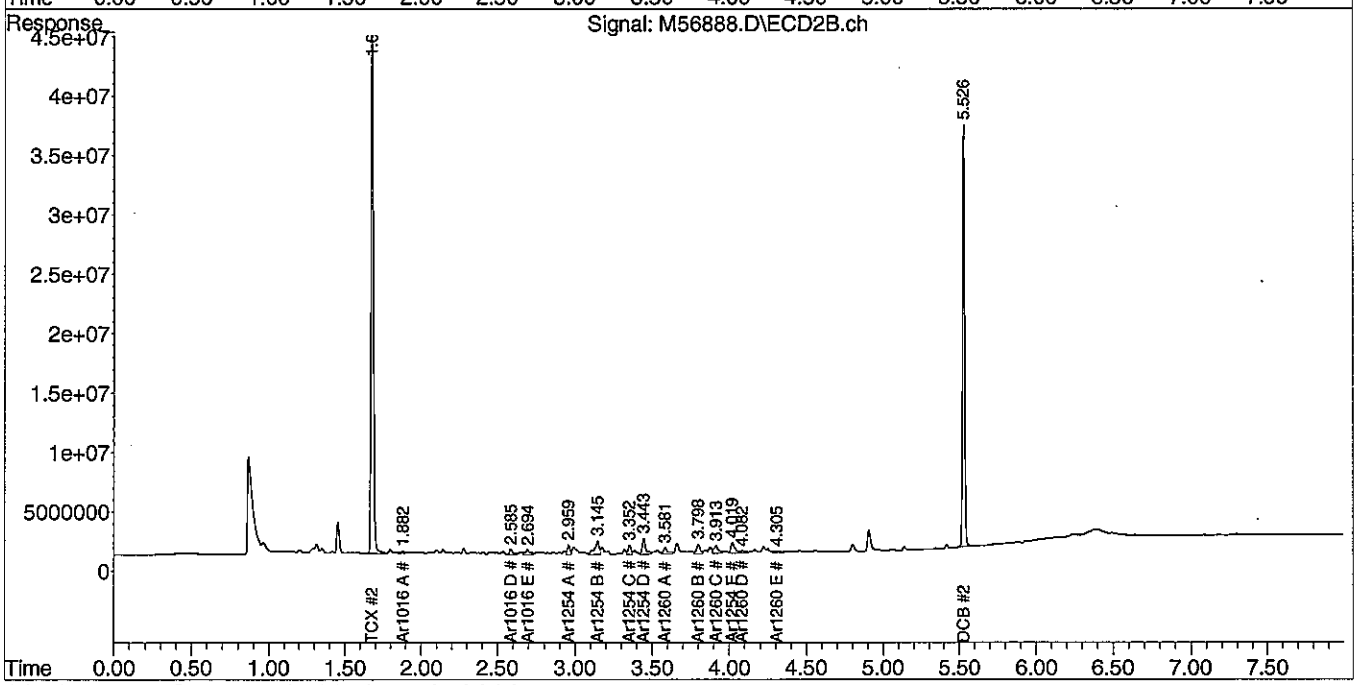
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56888.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 5:15 pm
Operator : JK
Sample : 72584-15,,A/C
Misc : SOIL
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:43 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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May 9, 2012

SAMPLE DATA

Lab Sample ID: 72584-16
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 04/12/12
Lab Receipt Date: 04/13/12
Extraction Date: 04/16/12
Analysis Date: 04/17/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWM-244

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.7**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG:
Sample: 72584-16,,A/C
Data File: M56889.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	1.7	1.5	10.1	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

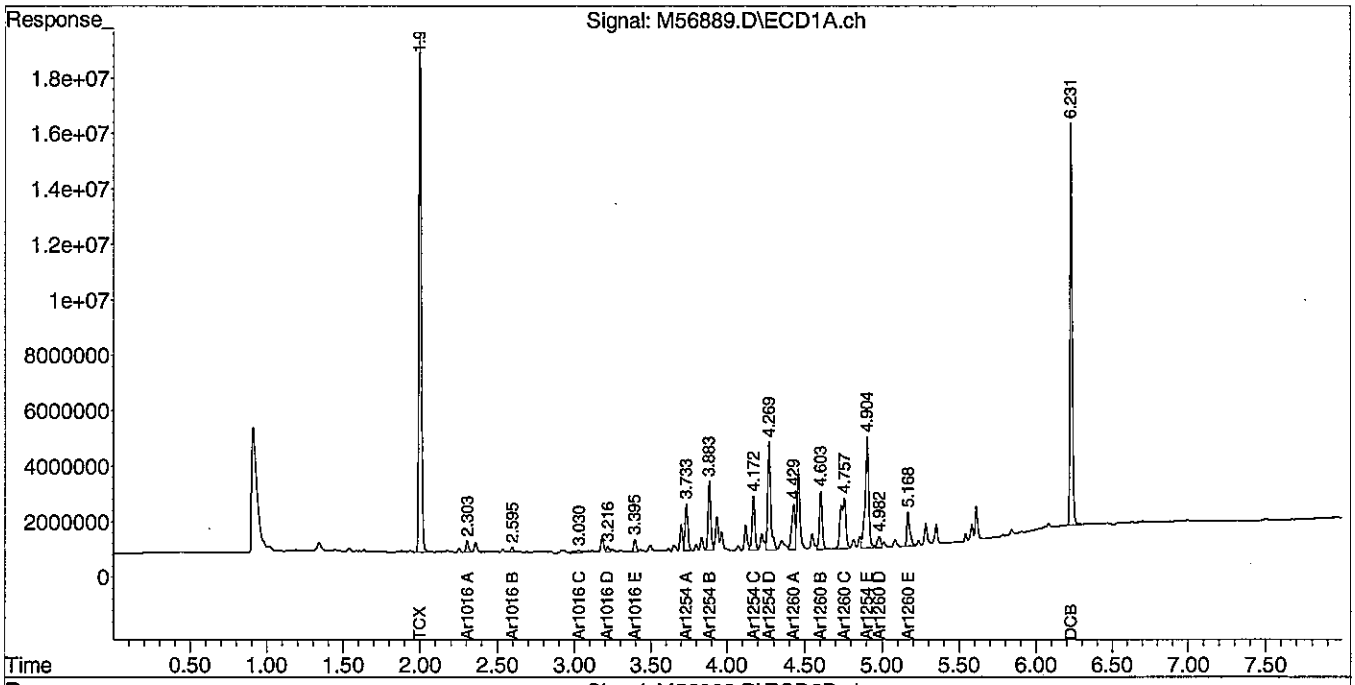
Comments: _____

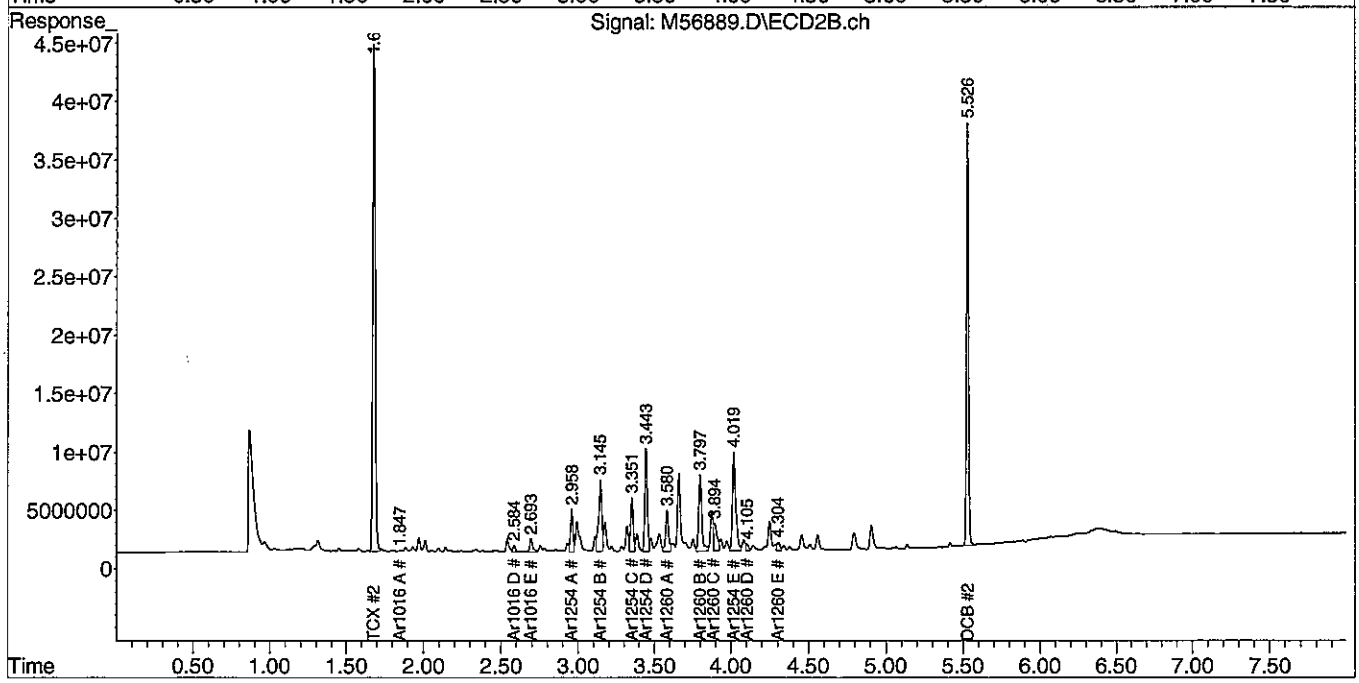
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56889.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 5:25 pm
Operator : JK
Sample : 72584-16,,A/C
Misc : SOIL
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:45 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-17
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-245

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

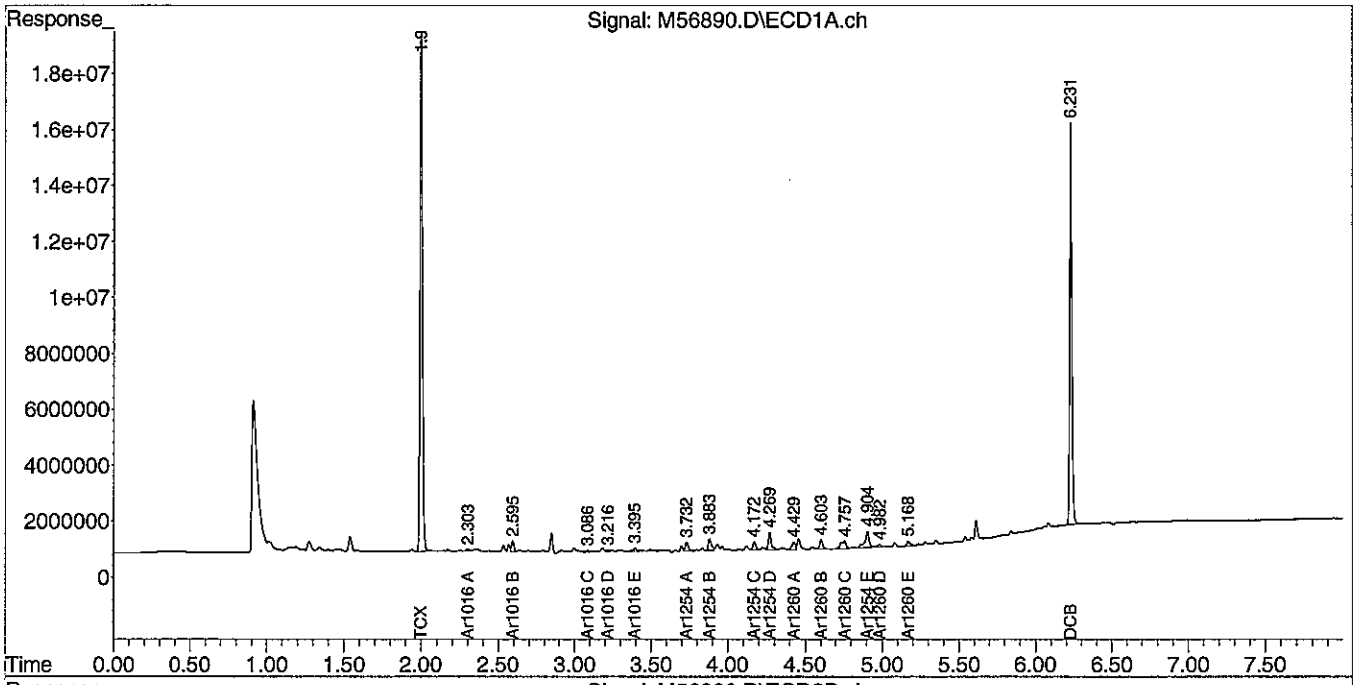
PCB Report

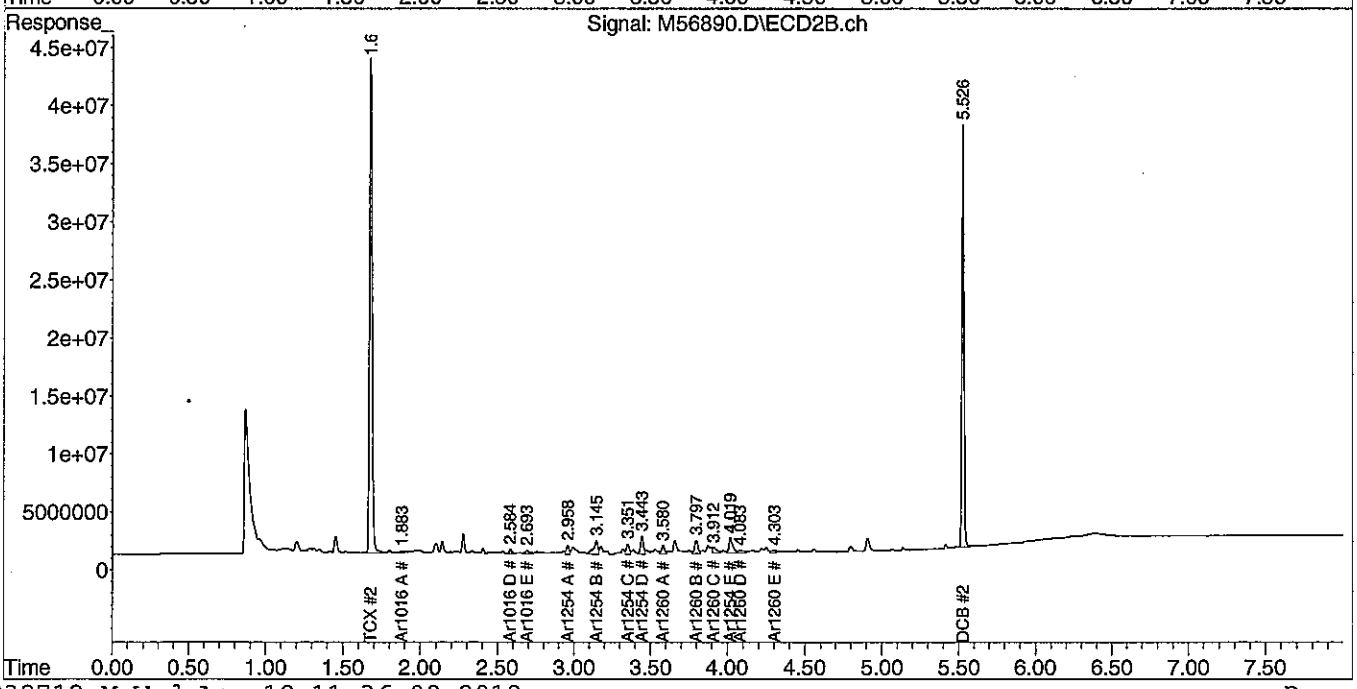
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56890.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 5:36 pm
Operator : JK
Sample : 72584-17,,A/C
Misc : SOIL
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:47 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-18
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-246

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.0**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	98	%
Decachlorobiphenyl	83	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jamura Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-18,,A/C
Data File: M56891.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.0	0.9	7.0	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

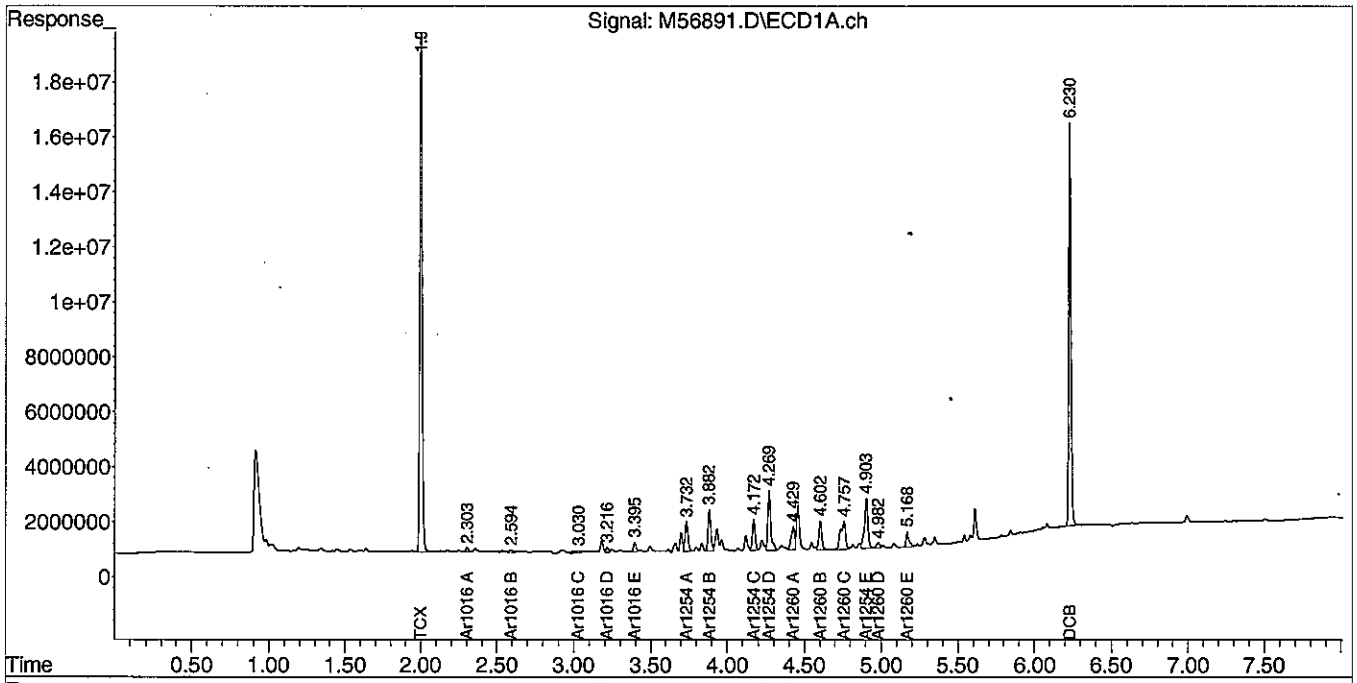
Comments: _____

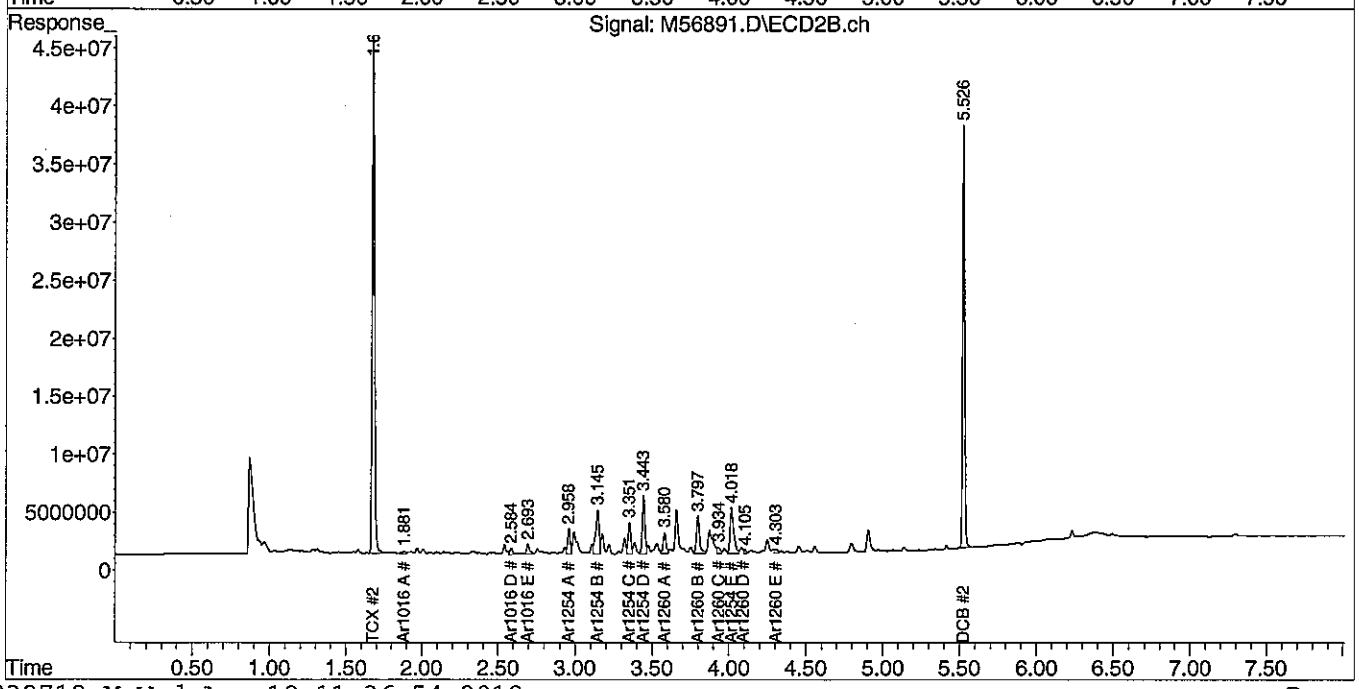
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56891.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 5:46 pm
Operator : JK
Sample : 72584-18,,A/C
Misc : SOIL
ALS Vial : 26 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:49 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72584-19
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-247

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	83	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

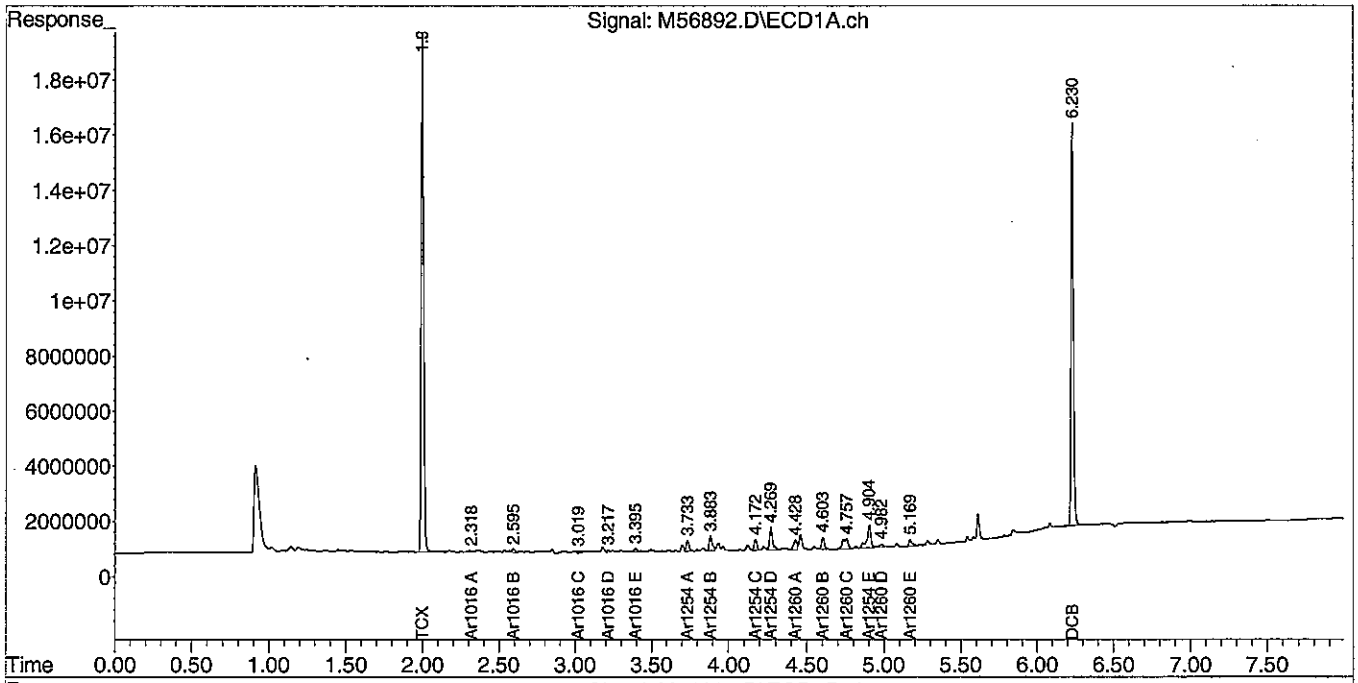
PCB Report

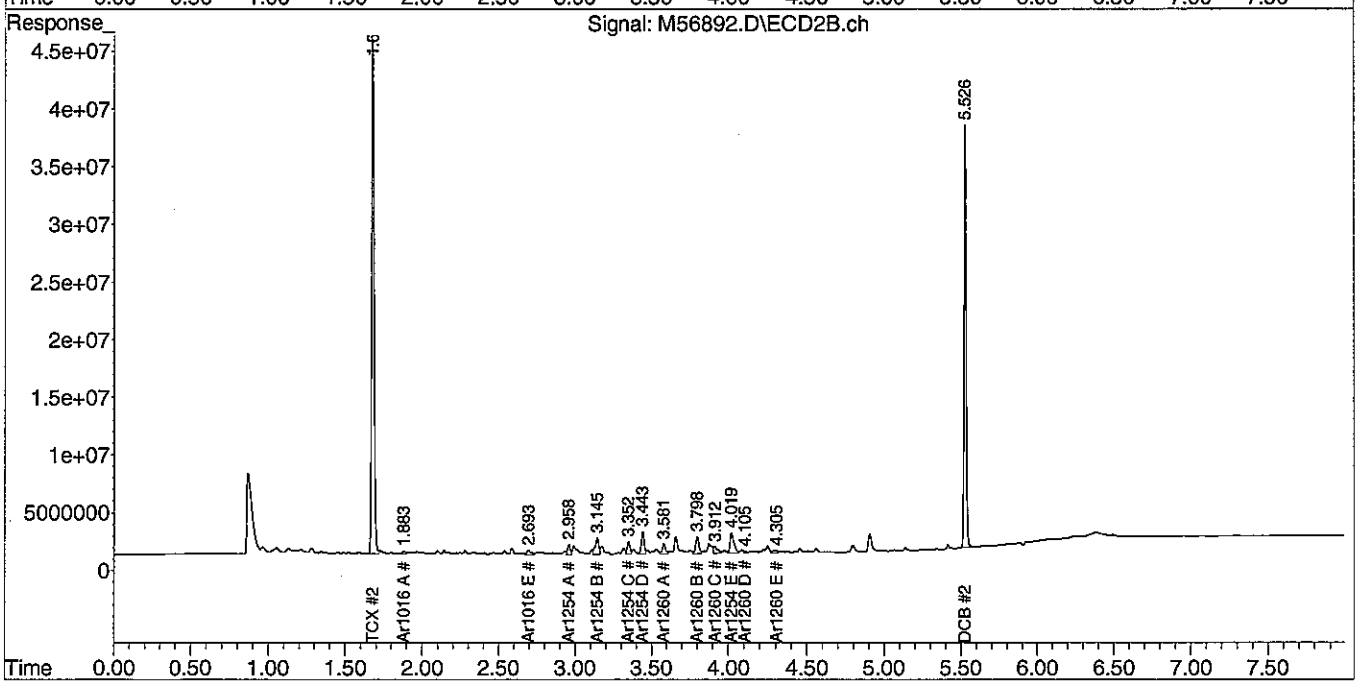
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56892.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 5:56 pm
Operator : JK
Sample : 72584-19,,A/C
Misc : SOIL
ALS Vial : 27 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:51 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-20
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-248

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**1.6**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	81	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-20,,A/C
Data File: M56893.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	1.6	1.5	9.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

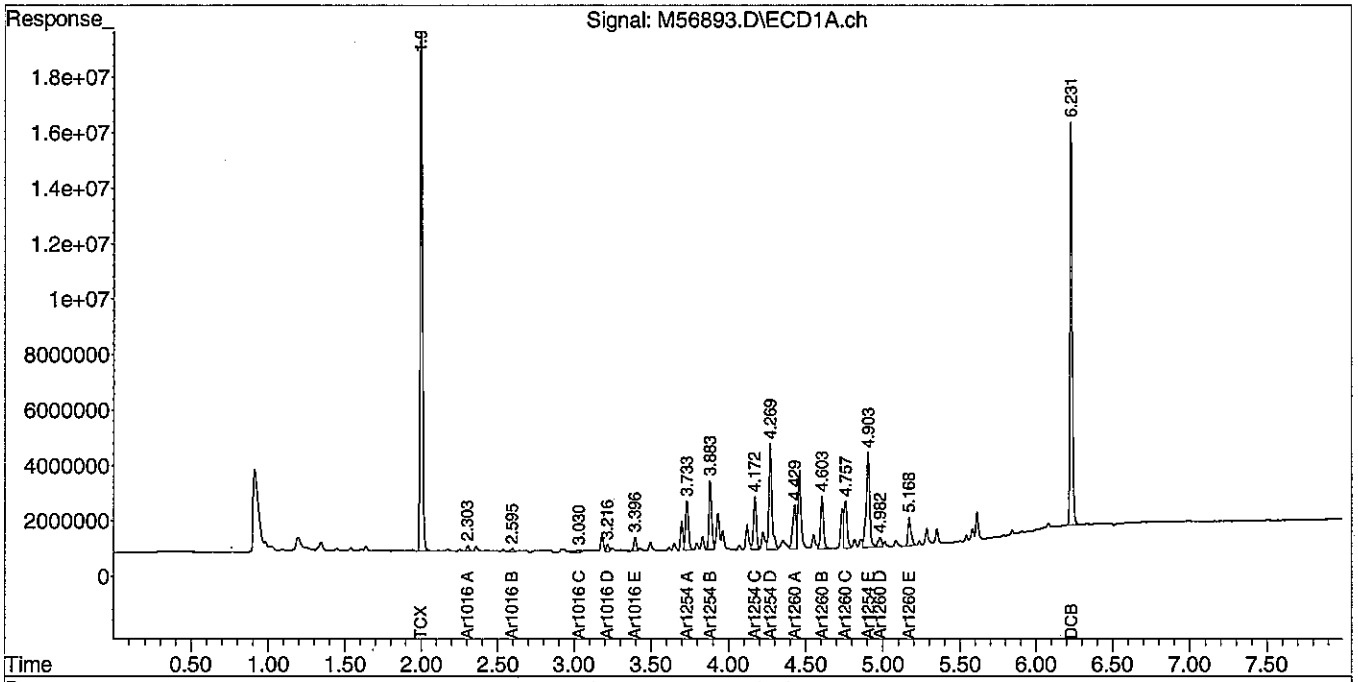
Comments: _____

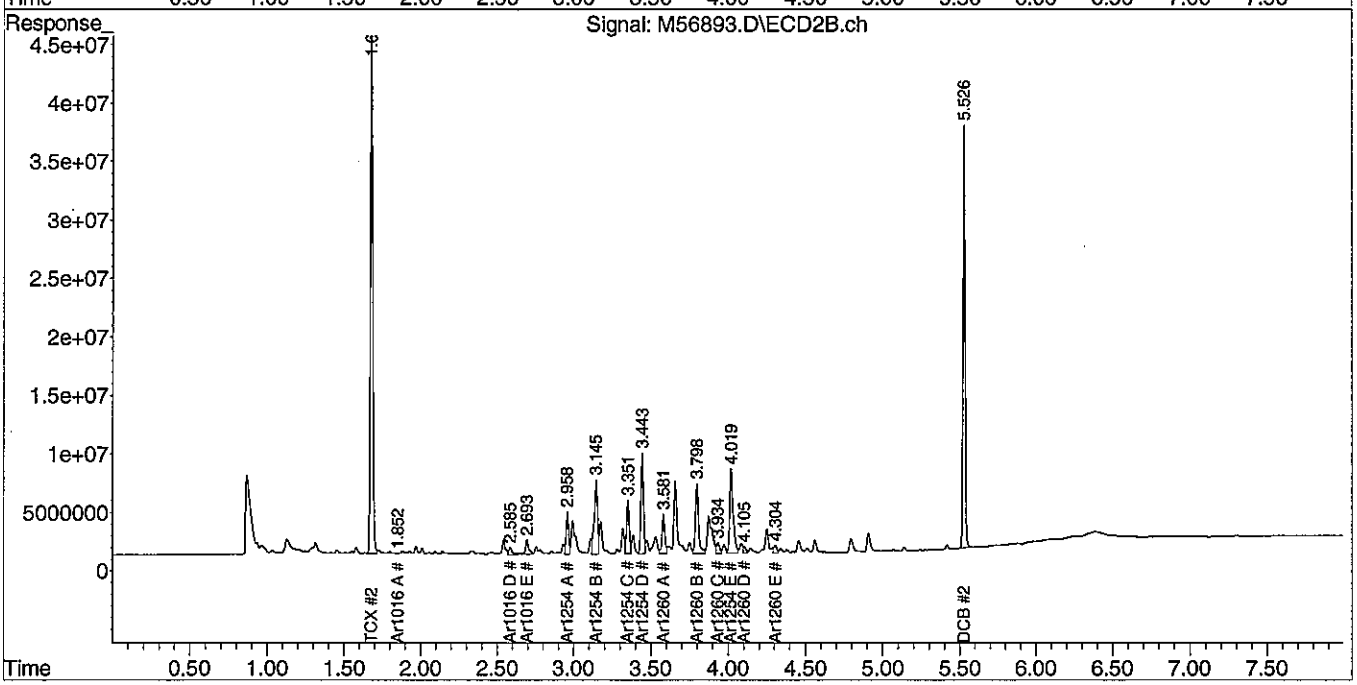
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56893.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 6:06 pm
Operator : JK
Sample : 72584-20,,A/C
Misc : SOIL
ALS Vial : 28 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 11:21:53 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-21
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/10/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-223

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

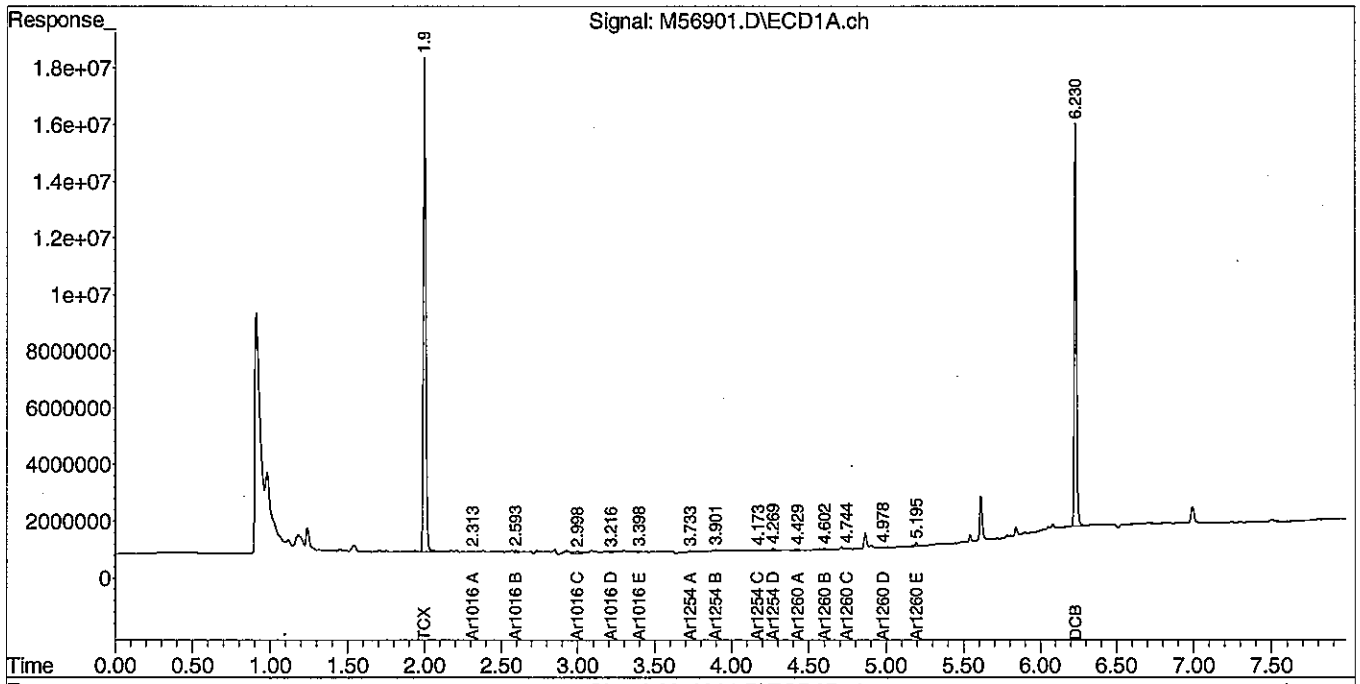
PCB Report

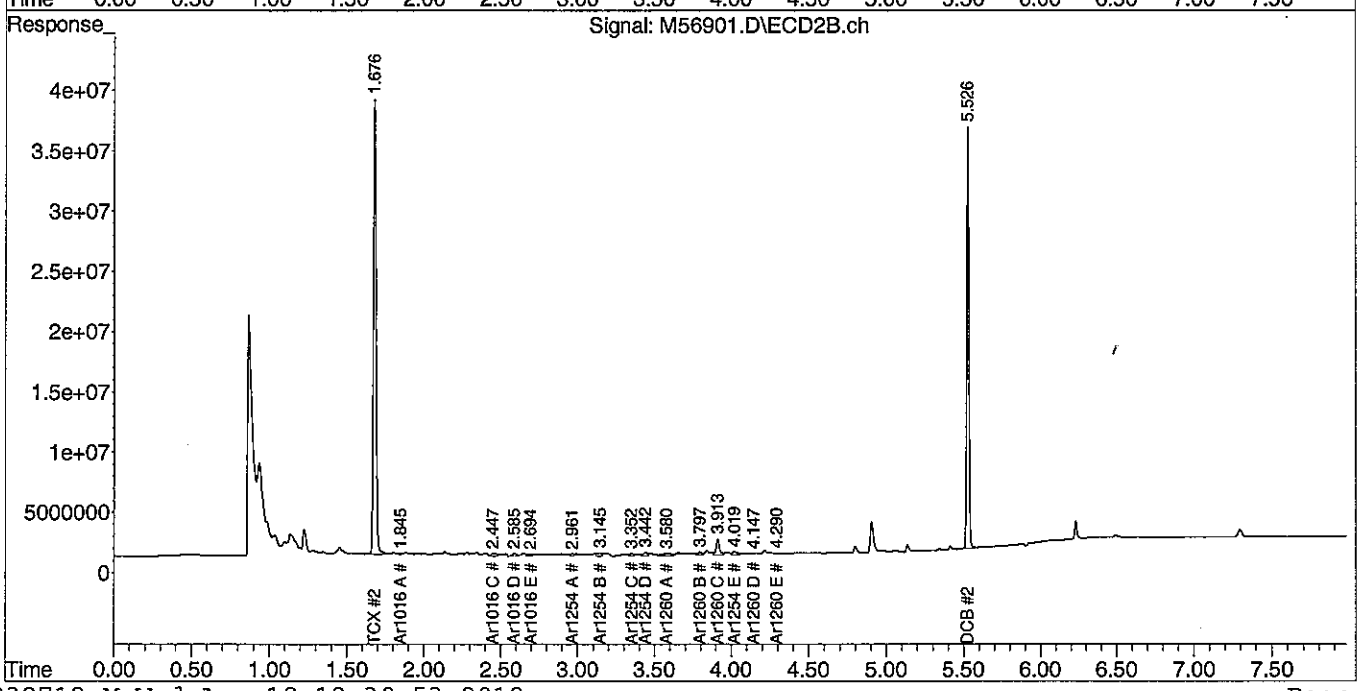
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56901.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 7:26 pm
Operator : JK
Sample : 72584-21,,A/C
Misc : SOIL
ALS Vial : 32 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 12:20:39 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-22
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/11/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-224

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**6.3**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-22,,A/C
Data File: M56902.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	6.3	5.5	14.4	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

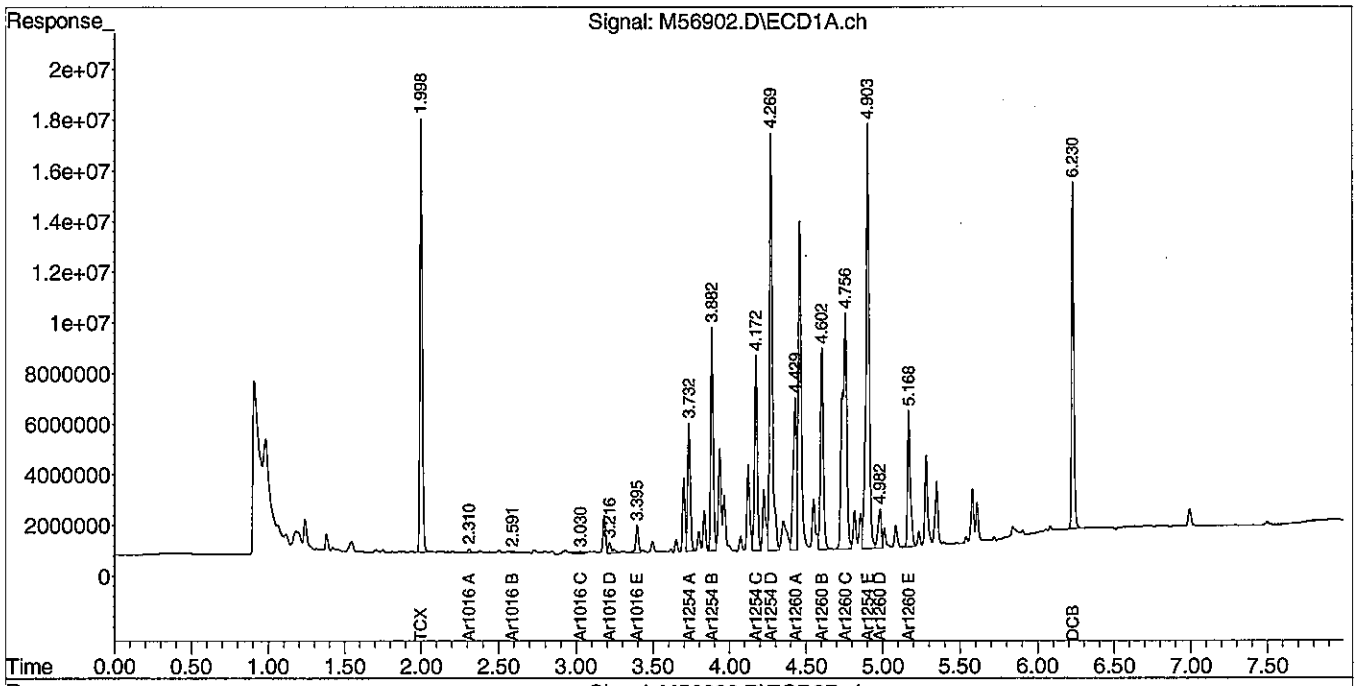
Comments: _____

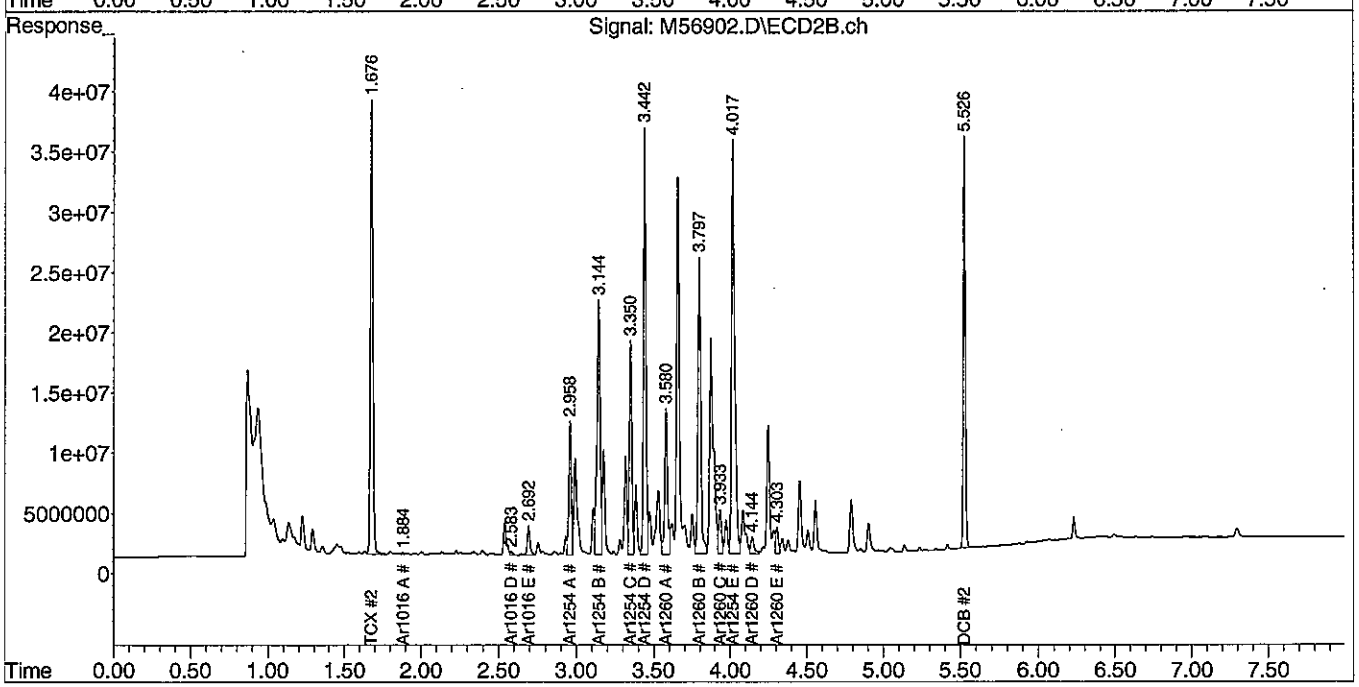
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56902.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 7:36 pm
Operator : JK
Sample : 72584-22,,A/C
Misc : SOIL
ALS Vial : 33 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 12:20:41 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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SAMPLE DATA

Lab Sample ID:	72584-23
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/11/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-225

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**6.4**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jemma Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-23,,A/C
Data File: M56903.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	6.4	5.6	13.4	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

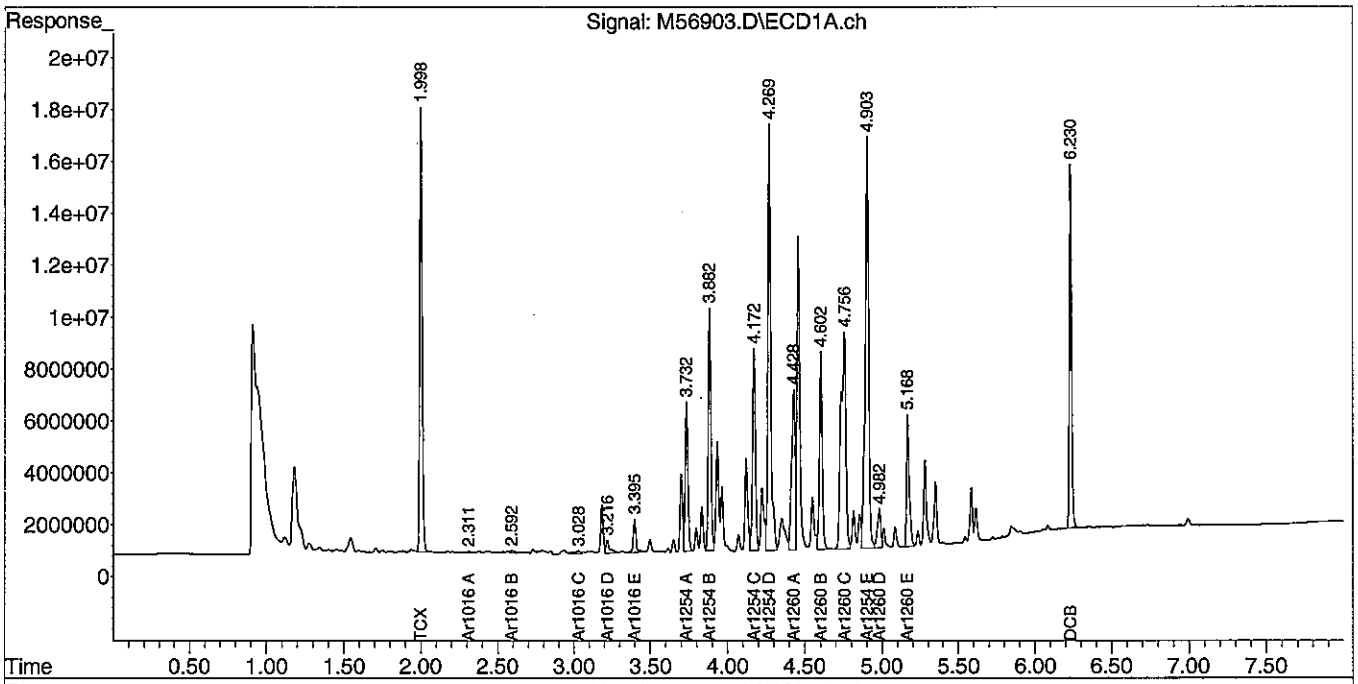
Comments: _____

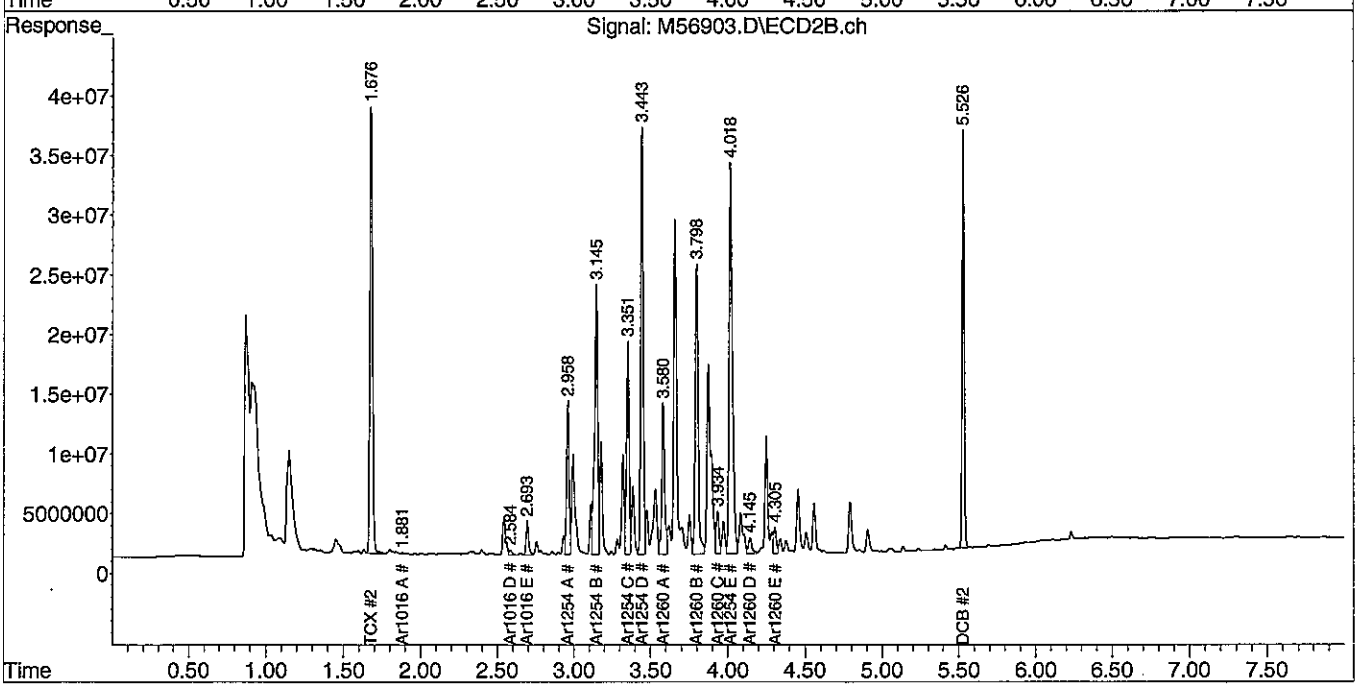
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56903.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 7:46 pm
Operator : JK
Sample : 72584-23,,A/C
Misc : SOIL
ALS Vial : 34 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 12:20:43 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-24
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/11/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-226

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	89	%
Decachlorobiphenyl	80	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

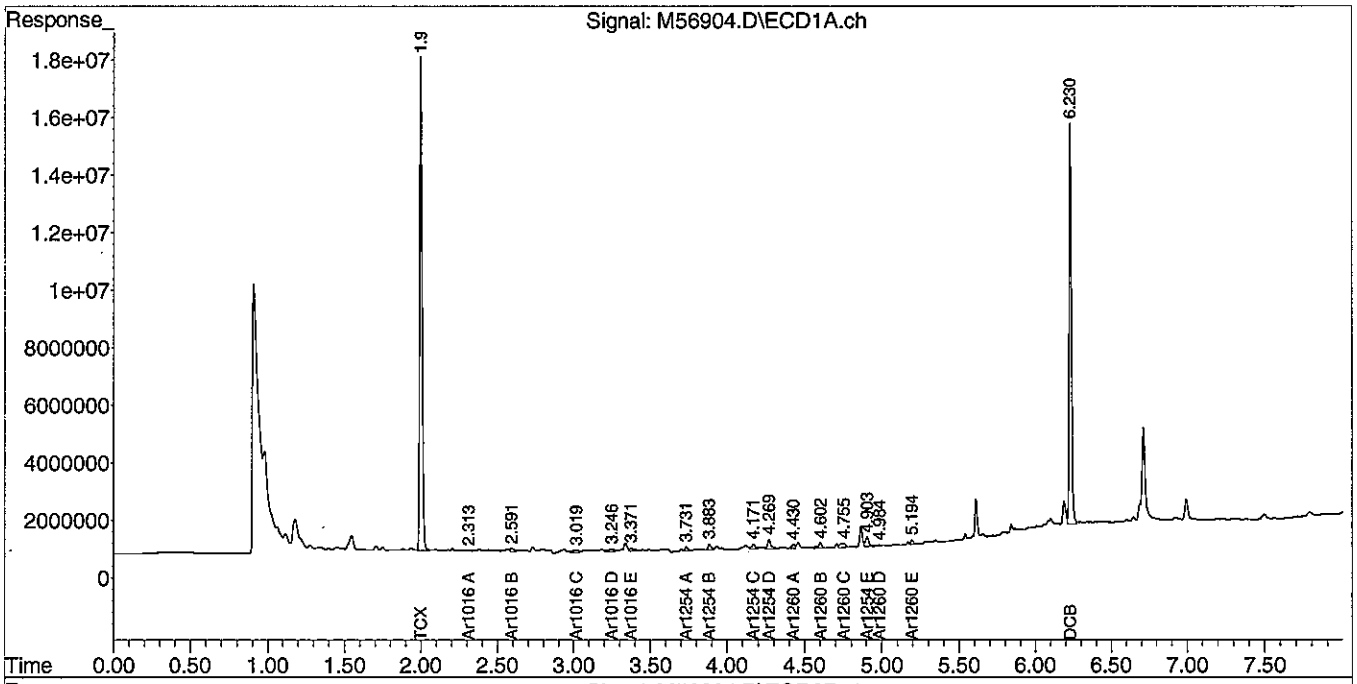
PCB Report

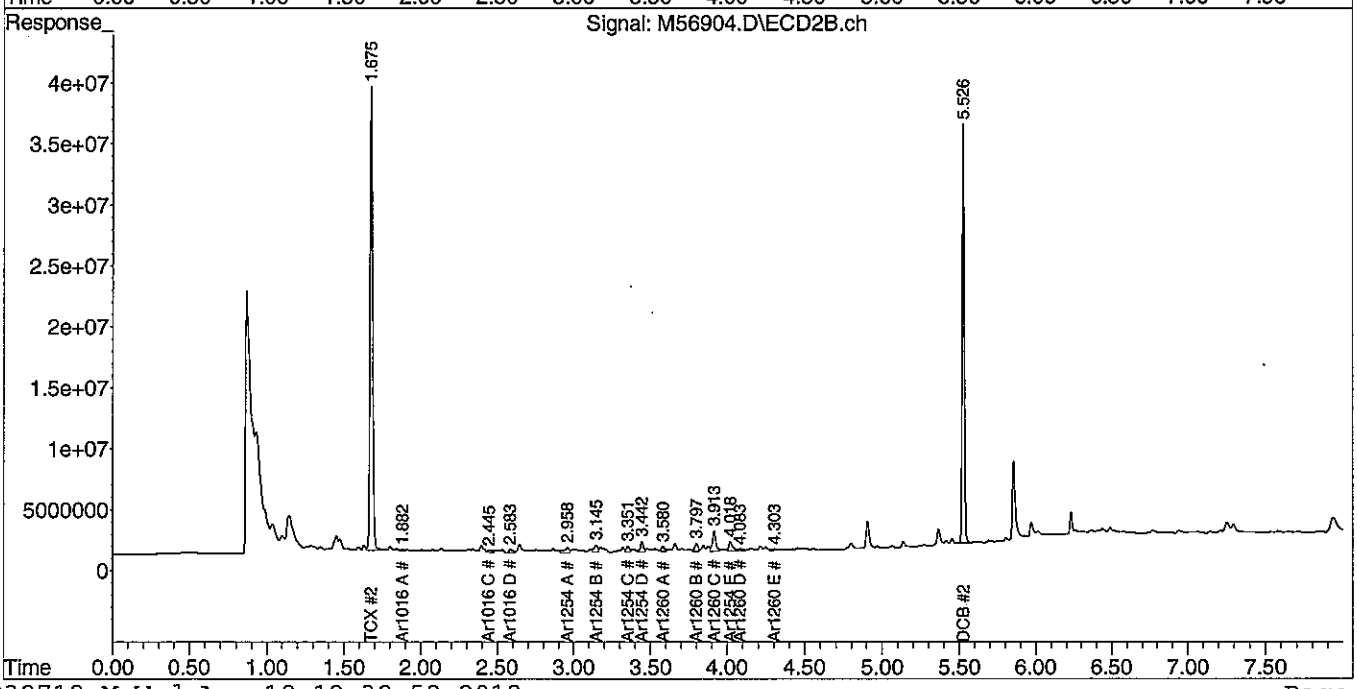
Authorized signature Jemma Leung

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56904.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 7:56 pm
Operator : JK
Sample : 72584-24,,A/C
Misc : SOIL
ALS Vial : 35 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 12:32:44 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWM-227

Lab Sample ID: 72584-25
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 04/11/12
Lab Receipt Date: 04/13/12
Extraction Date: 04/16/12
Analysis Date: 04/17/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	88	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

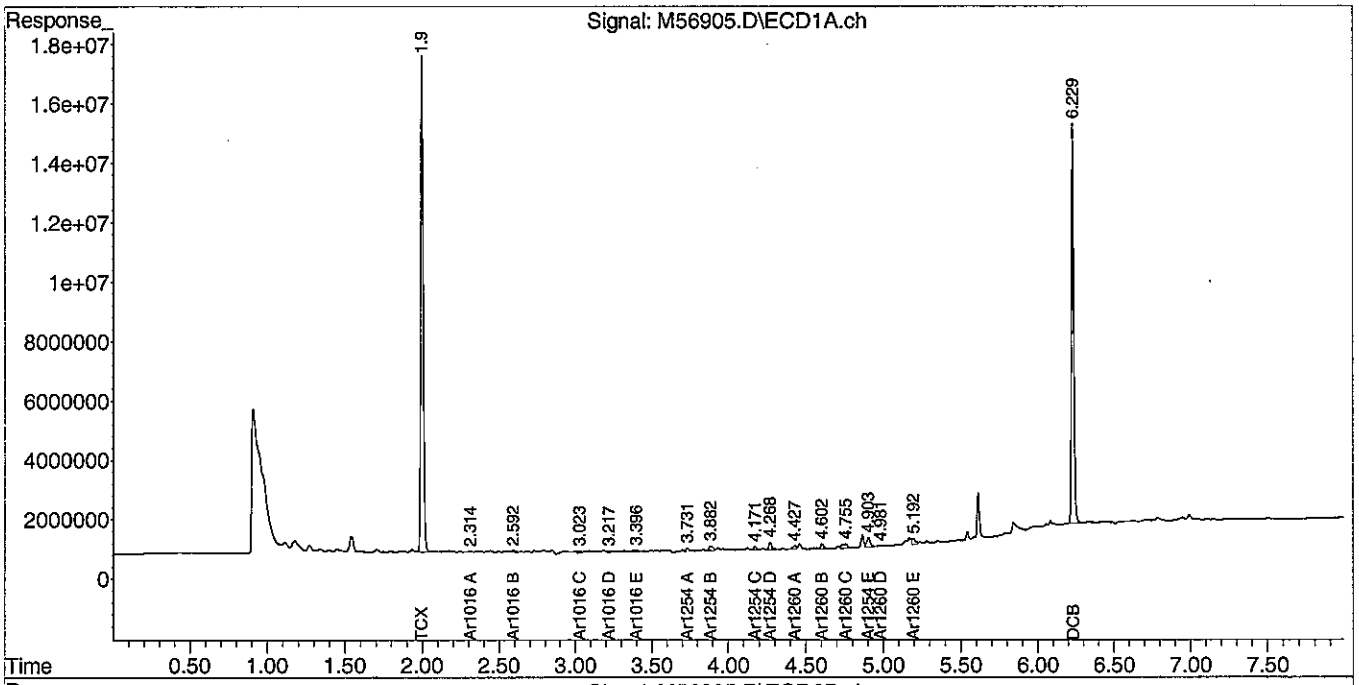
PCB Report

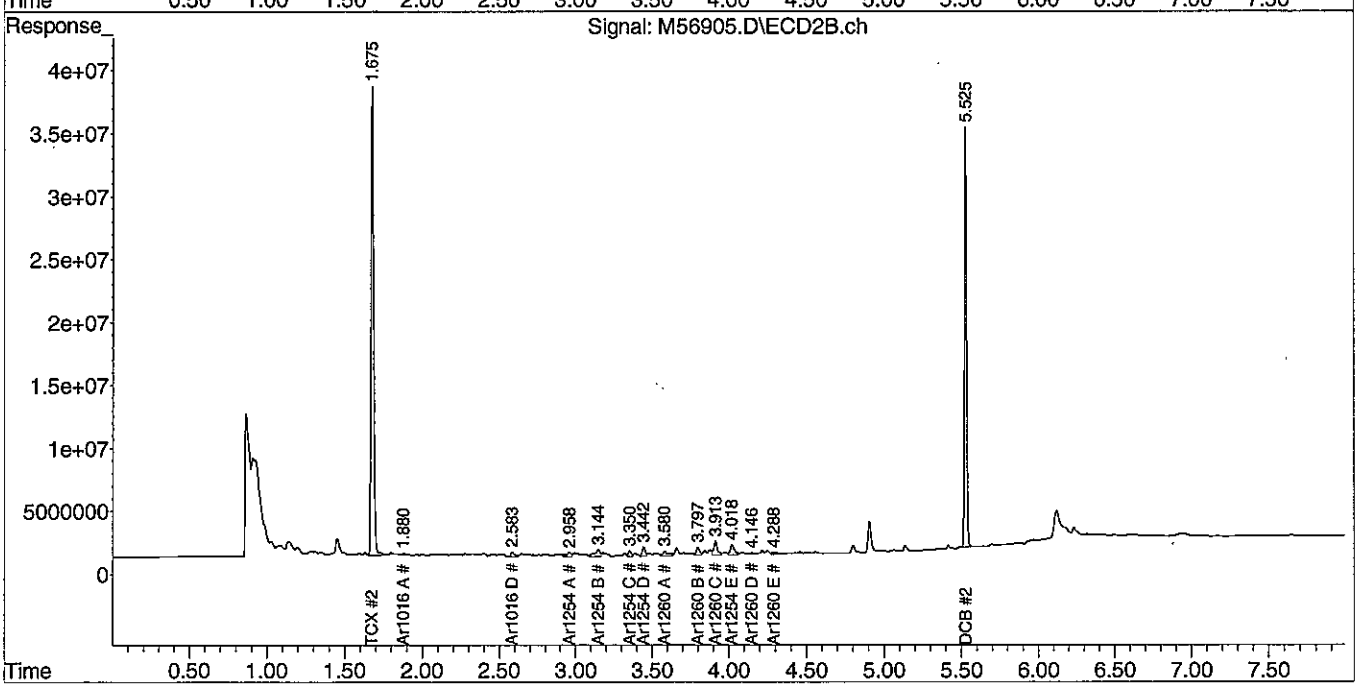
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56905.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 8:06 pm
Operator : JK
Sample : 72584-25,,A/C
Misc : SOIL
ALS Vial : 36 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 12:20:47 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-26
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/11/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-228

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**4.1**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	90	%
Decachlorobiphenyl	77	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Jennifer Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-26,,A/C
Data File: M56906.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	4.1	3.5	13.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

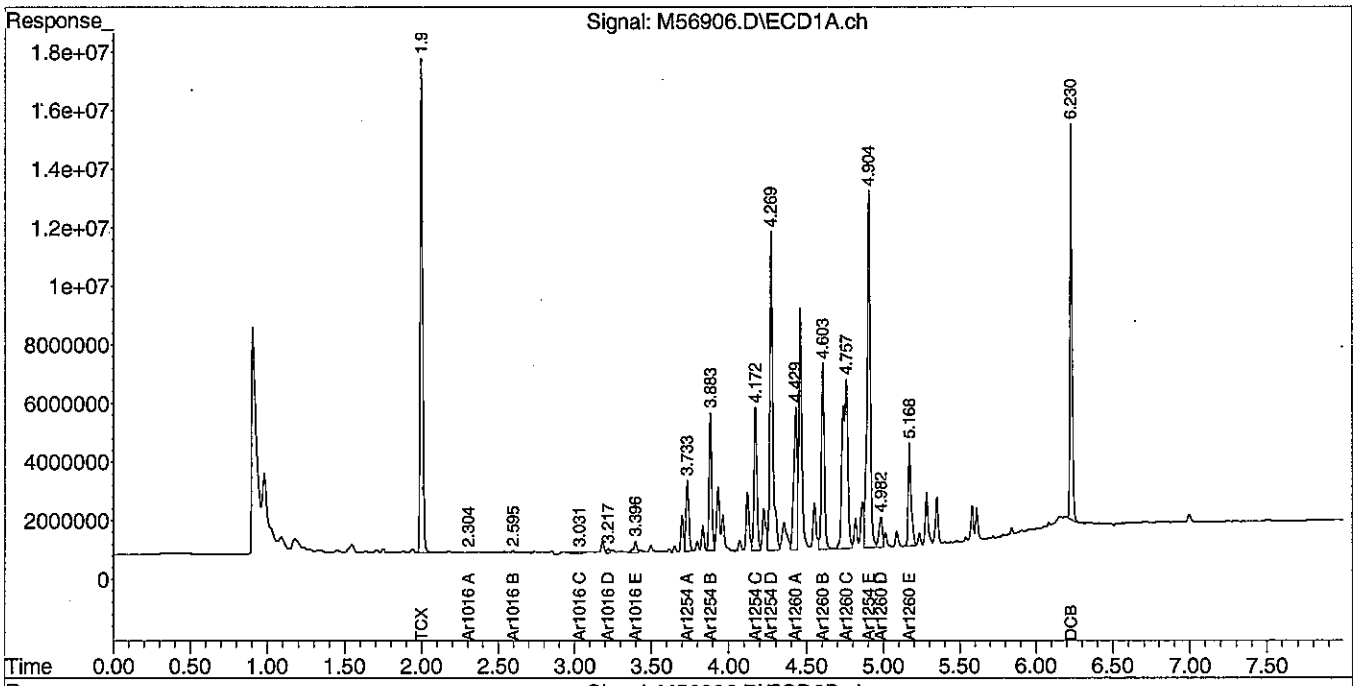
Comments: _____

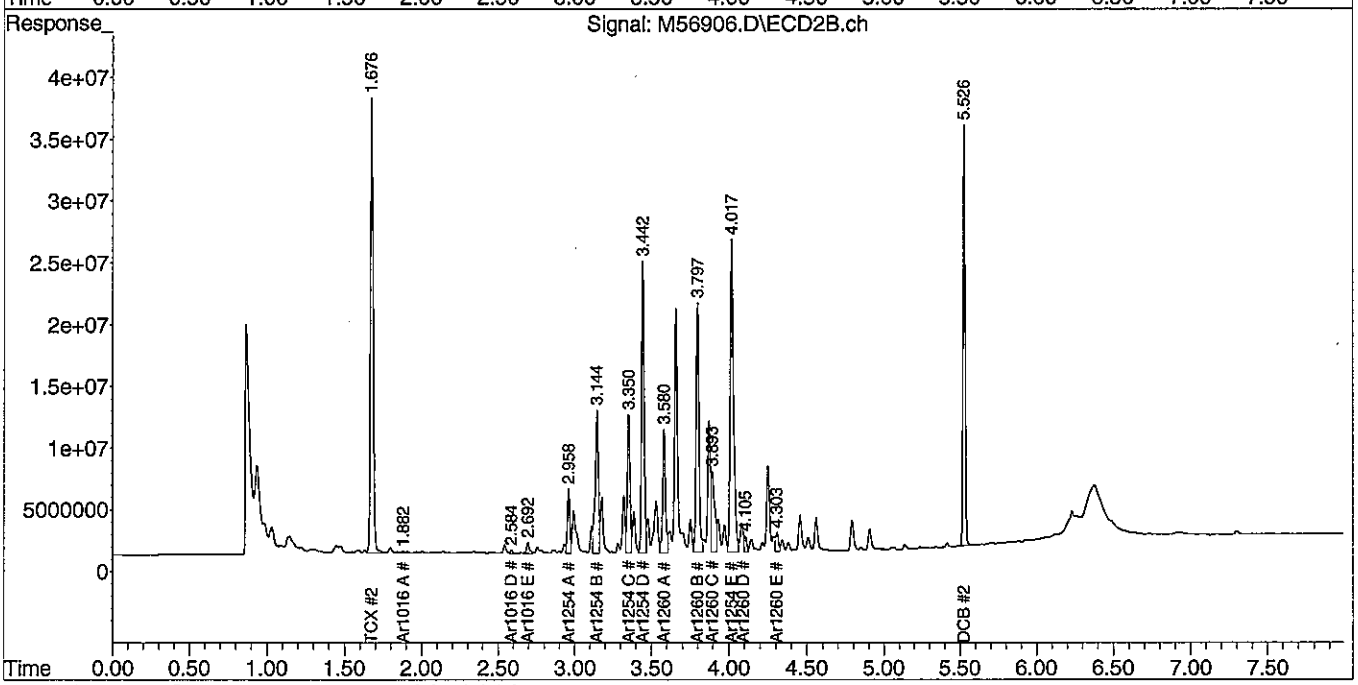
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56906.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 8:17 pm
Operator : JK
Sample : 72584-26,,A/C
Misc : SOIL
ALS Vial : 37 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 12:33:18 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 20, 2012

SAMPLE DATA

Lab Sample ID:	72584-27
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-249

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.7**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	92	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Sample: 72584-27,,A/C
Data File: M56907.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.7	0.7	1.8	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

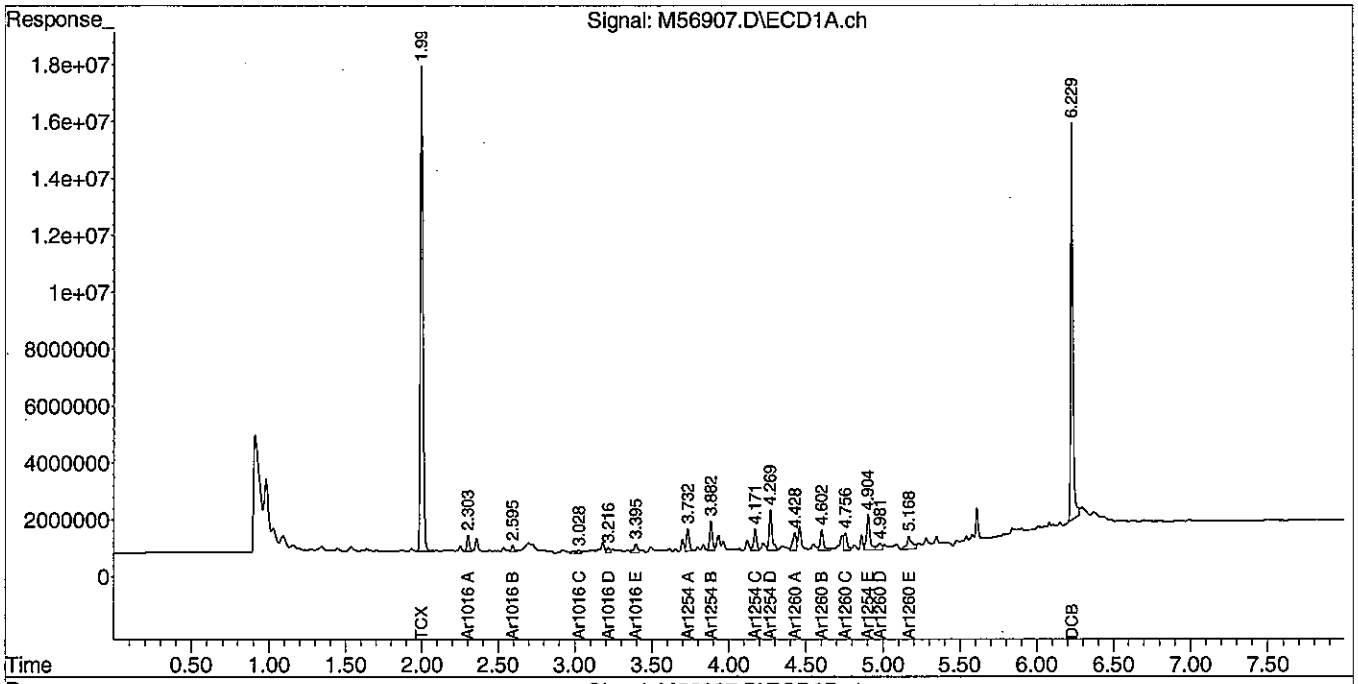
Comments: _____

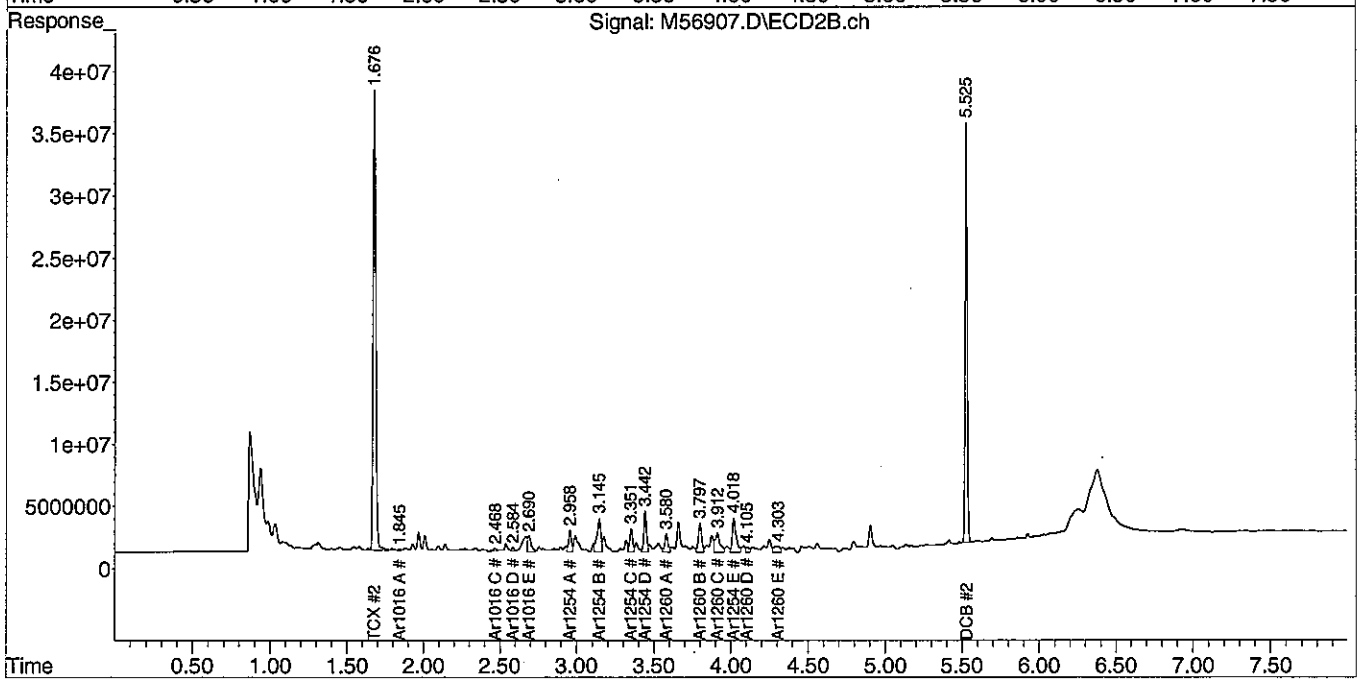
PCB FORM 10

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56907.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 8:27 pm
Operator : JK
Sample : 72584-27,,A/C
Misc : SOIL
ALS Vial : 38 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 12:33:52 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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April 18, 2012

SAMPLE DATA

Lab Sample ID:	72584-28
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	04/12/12
Lab Receipt Date:	04/13/12
Extraction Date:	04/16/12
Analysis Date:	04/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWM-250

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

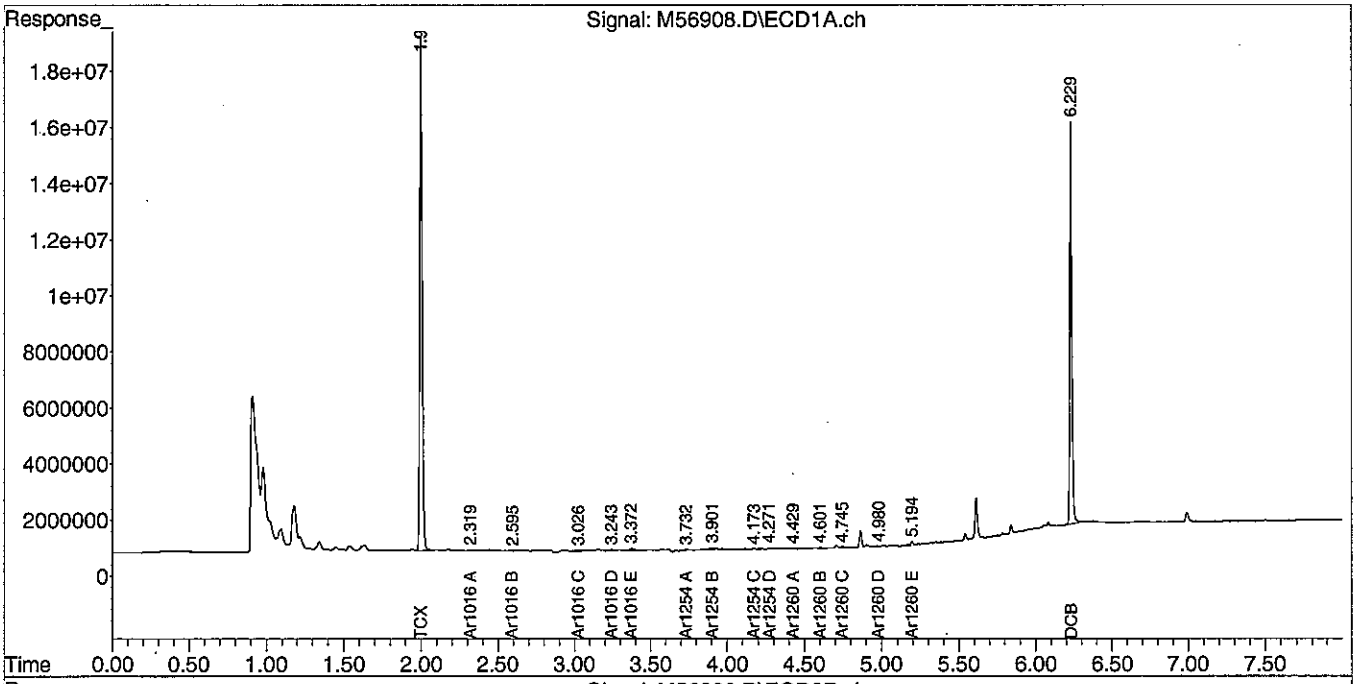
PCB Report

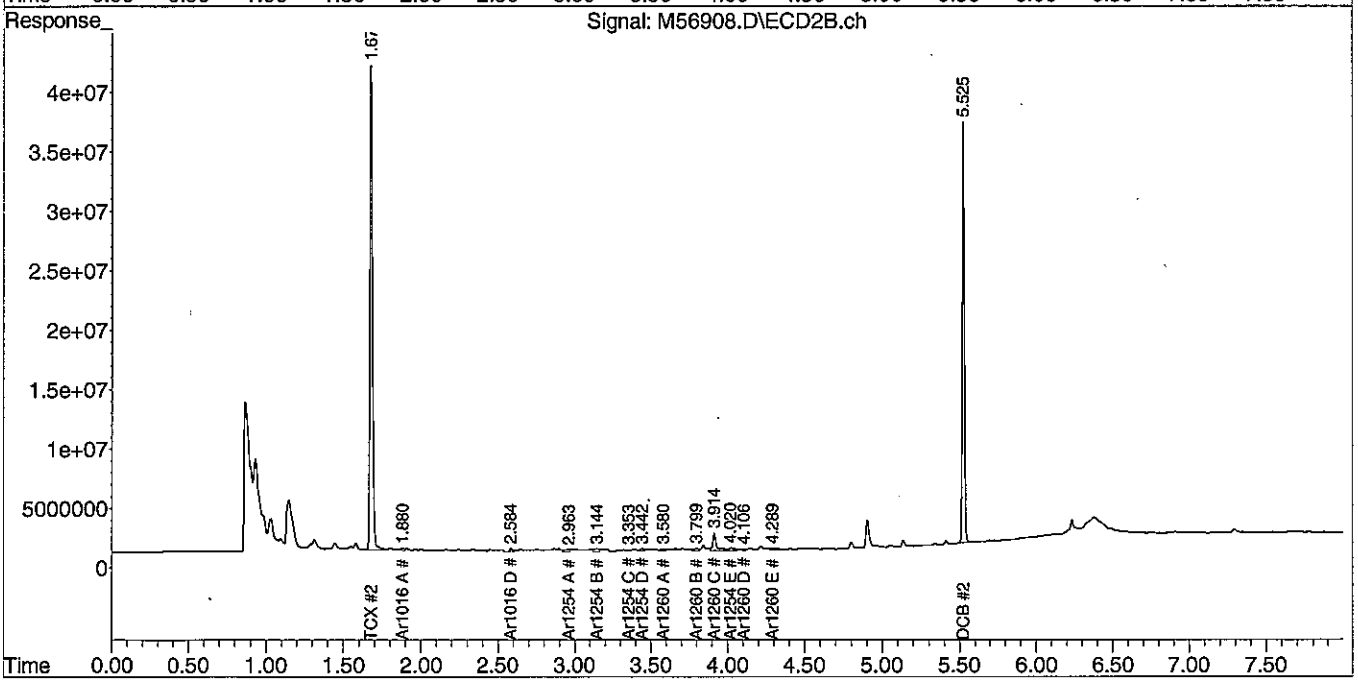
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\041712-M\
Data File : M56908.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 Apr 2012 8:37 pm
Operator : JK
Sample : 72584-28,,A/C
Misc : SOIL
ALS Vial : 39 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: Apr 18 12:20:53 2012
Quant Method : C:\msdchem\1\METHODS\PCB032712.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Wed Apr 11 02:27:44 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B041612PSOX,,A/C	106		82		96		72	
L041612PSOXW,,A/C	97		75		88		69	
LD041612PSOXW,,A/C	96		76		88		70	
72584-1,,A/C	96		76		88		70	
72584-2,,A/C	94		75		86		69	
72584-3,,A/C	94		75		87		70	
72584-4,,A/C	91		73		83		68	
72584-5,,A/C	90		74		82		68	
72584-6,,A/C	95		77		86		71	
72584-7,,A/C	92		75		83		70	
72584-8,,A/C	94		78		85		72	
72584-9,,A/C	96		79		87		74	
72584-10,,A/C	93		77		85		73	
72584-11,,A/C	94		78		87		74	
72584-12,,A/C	96		79		89		75	
72584-13,,A/C	97		80		90		76	
72584-14,,A/C	95		80		89		75	
72584-15,,A/C	97		80		90		75	
72584-16,,A/C	97		82		88		77	
72584-17,,A/C	96		82		90		77	
72584-18,,A/C	98		83		91		77	
72584-19,,A/C	97		83		89		78	
72584-20,,A/C	96		81		88		76	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B041612PSOX2,,A/C	97		83		89		79	
L041612PSOX2W,,A/C	93		80		86		76	
LD041612PSOX2W,,A/C	90		79		83		75	
72584-21,,A/C	91		80		84		75	
72584-22,,A/C	89		78		82		72	
72584-23,,A/C	91		80		84		74	
72584-24,,A/C	89		80		84		73	
72584-25,,A/C	88		77		83		71	
72584-26,,A/C	90		77		84		72	
72584-27,,A/C	92		82		85		72	
72584-28,,A/C	94		82		86		75	

	Lower Limit	Upper Limit
SMC #1 = TCX	40	130
SMC #2 = DCB	40	130

\# Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Non-spiked sample: B041612PSOX,,A/C
Spike: L041612PSOXW,,A/C
Spike duplicate: LD041612PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	65	140	30	0.0	1.9	96		1.9	97		0.6	
PCB 1260	2.0	2.0	60	130	30	0.0	1.9	97		1.9	96		0.6	
PCB 1016 #2	2.0	2.0	65	140	30	0.0	1.7	84		1.7	84		0.5	
PCB 1260 #2	2.0	2.0	60	130	30	0.0	1.8	91		1.8	90		1.2	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.
Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

PCB WIPE
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72584
Non-spiked sample: B041612PSOX2,,A/C
Spike: L041612PSOX2W,,A/C
Spike duplicate: LD041612PSOX2W,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	65	140	30	0.0	1.8	92		1.8	89		2.7	
PCB 1260	2.0	2.0	60	130	30	0.0	1.9	96		1.8	92		4.4	
PCB 1016 #2	2.0	2.0	65	140	30	0.0	1.7	84		1.6	81		3.5	
PCB 1260 #2	2.0	2.0	60	130	30	0.0	2.0	99		1.8	90		10.0	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.
Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 1.6 °C
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: JB 4/13/12

Project Name: UMaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:
Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWM-229	4/12/12	11:15					B/G							WP	1		72584-1
UMSC-VWM-230	4/12/12	11:20					B/G							WP	1		2
UMSC-VWM-231	4/12/12	11:25					B/G							WP	1		3
UMSC-VWM-232	4/12/12	11:30					B/G							WP	1		4
UMSC-VWM-233	4/12/12	11:35					B/G							WP	1		5
UMSC-VWM-234	4/12/12	11:40					B/G							WP	1		6
UMSC-VWM-235	4/12/12	11:45					B/G							WP	1		7
UMSC-VWM-236	4/12/12	11:50					B/G							WP	1		8
UMSC-VWM-237	4/12/12	11:50					B/G							WP	1		9
UMSC-VWM-238*	4/12/12	12:00					B/G							WP	1		10

Email Results to: aWallace@WoodardCurran.com

Comments, Additional Analyses, or Special Instructions: ** List requested metals here
*Jar has sample time as 1155 JB 4/13/12

Turnaround Time (TAT): 24 Hours* ☐ 48 Hours* ☐ 72 Hours* ☐ 5 Days* ☒ 10 Days ☐
*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply
Report Type: MCP* ☐ CTRCP* ☐ DOD* ☐ Standard ☐ Level II* ☒ Level III* ☐ Level IV* ☐
State: NH ☐ MA ☐ ME ☒ CT ☐ RI ☐ Other:
State Standard: (eg. S-1 or GW-1)
EDD Required: Y or N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Date: 4/12/12	Time: 7:30	Received By: Gen. Couriers
Relinquished By: Gen. Couriers	Date: 4/13/12	Time: 8:00a	Received By: Gemma Jenny
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were: 1) Shipped or hand-delivered
2) Temperature (°C): 1.6°C
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: JB 4/13/12

Project Name: UMaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:
Preservation Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please write in preservation code here

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWM-239	4/12/12	12:45					B/6						WP	1		72584-11
UMSC-VWM-240	4/12/12	12:50					B/6						WP	1		12
UMSC-VWM-241	4/12/12	12:55					B/6						WP	1		13
UMSC-VWM-242	4/12/12	13:05					B/6						WP	1		14
UMSC-VWM-243	4/12/12	13:10					B/6						WP	1		15
UMSC-VWM-244	4/12/12	13:15					B/6						WP	1		16
UMSC-VWM-245	4/12/12	13:20					B/6						WP	1		17
UMSC-VWM-246	4/12/12	13:25					B/6						WP	1		18
UMSC-VWM-247	4/12/12	13:30					B/6						WP	1		19
UMSC-VWM-248	4/12/12	13:35					B/6						WP	1		20

Email Results to: awallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Turnaround Time (TAT): ☐ 24 Hours* ☐ 48 Hours* ☐ 72 Hours* ☒ 5 Days* ☐ 10 Days
*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply
Report Type: ☐ MCP* ☒ Level II* ☐ CTRCP* ☐ Level III* ☐ DOD* ☐ Level IV* ☐ Standard
State: ☐ NH ☐ MA ☒ ME ☐ CT ☐ RI Other:
State Standard: (eg. S-1 or GW-1)
EDD Required: ☒ Y ☐ N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: [signature]	Date: 4/12/12	Time: 7:30	Received By: Gen. Courier
Relinquished By: Gen. Courier	Date: 4-13-12	Time: 800a	Received By: Emma Lewis
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped ~~or hand-delivered~~
2) Temperature (°C): 1.6°C
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: JRB 4/13/12

Project Name: UMaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:
Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please write in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWG-223	4/10/12	10:20					B/G						WP	1		72584-21
UMSC-VWM-224	4/11/12	12:05					B/G						WP	1		22
UMSC-VWM-225	4/11/12	12:15					B/G						WP	1		23
UMSC-VWM-226	4/11/12	12:25					B/G						WP	1		24
UMSC-VWM-227	4/11/12	12:35					B/G						WP	1		25
UMSC-VWM-228	4/11/12	12:45					B/G						WP	1		26
UMSC-VWM-249	4/12/12	13:50					B/G						WP	1		27
UMSC-VWM-250	4/12/12	13:55					B/G						WP	1		28

Email Results to:
awallace@woodardcurran.com

Turnaround Time (TAT)
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☒ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH
☐ MA
☒ ME
☐ CT
☐ RI
Other:

State Standard:
(eg. S-1 or GW-1)
EDD Required: Y (N)
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: Charlie Smith	Date: 4/12/12	Time: 7:30	Received By: Gen. Couriers
Relinquished By: Gen. Couriers	Date: 4/13/12	Time: 8:00a	Received By: Jemma Jenny
Relinquished By:	Date:	Time:	Received By:

Page ____ of ____

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72584 COOLER NUMBER: C07

CLIENT: W+C NUMBER OF COOLERS: 1

PROJECT: Umaine- Stewart Commons

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): JU DATE COOLER RECEIVED/OPENED: 4.13.12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N/A

3a. Enter carrier name and airbill number here: _____

4. Were custody seals on the outside of cooler? Y N
How many & where: 1 - Cid Seal Date: none Seal Name: none

5. Did the custody seals arrive unbroken and intact upon arrival? Y N

6. COC#: —

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 1.6°C

B. Log-In: Date samples were logged in: 4.13.12 By: JU

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y JB 4/13/12 N See COC

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were VOA samples absent of greater than pea-sized bubbles? Y N/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): JB Date: 4/13/12

From: "Amy Wallace" <awallace@woodardcurran.com>
Subject: **RE: UMaine / time discrepancy (72584)**
Date: April 16, 2012 12:38:08 PM EDT
To: "Kate Zaleski" <kzaleski@analyticslab.com>

Hi Kate - please use the time on the COC. Thank you.

-----Original Message-----
From: Kate Zaleski [mailto:kzaleski@analyticslab.com]
Sent: Monday, April 16, 2012 10:45 AM
To: Amy Wallace
Subject: UMaine / time discrepancy (72584)

Hi Amy,
I'm reviewing the login for samples received from UMaine on Fri and there is a discrepancy between the time listed on COC and time on label on container for one sample, UMSC-VWM-237. Please see attached COC and let me know which time you would like reported.

Thanks,
Kate

From: Melissa Gulli <mgulli@analyticslab.com>
Subject: **Fwd: 72584**
Date: May 9, 2012 9:21:30 AM EDT
To: Casey Payne <cpayne@analyticslab.com>

Casey-

Please pull and correct. My guess is one is on MCP layout and should not be.

M

Please provide us with feedback on how we are doing by filling out a survey: Customer Feedback Survey

Melissa Gulli
Assistant Laboratory Director
Analytics Environmental Laboratory, LLC
195 Commerce Way Suite E
Portsmouth, NH 03801
800-929-9906 | 603-436-5111 | cell 603-491-9237

This email was sent by Analytics Environmental Laboratory and contains information which may be confidential. This information, including any attached files, is intended for use only by the person(s) to whom it is addressed. If you are not the addressee, review, copy, disclosure or use of this information is prohibited. If you have received this transmission in error, please notify Analytics Environmental Laboratory by return email (Analytics@analyticslab.com). Thank you.

Begin forwarded message:

From: "Data Check, Inc." <datachck@tds.net>
Date: May 8, 2012 8:59:02 AM EDT
To: Melissa Gulli <mgulli@analyticslab.com>
Cc: Amy Wallace <awallace@woodardcurran.com>
Subject: **72584**
Reply-To: datachck@tds.net

Hi Melissa,

I am in the process of validating this package for Amy at W&C and noted that for sample -15 PCB-1262 and PCB-1268 were reported. Is there a reason for this?

Thanks,
Gloria

--
Gloria J. Switalski, President
Data Check, Inc.
PO Box 29
81 Meaderboro Road
New Durham, NH 03855
(603) 859-8979
datachck@tds.net

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

May 1, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72695
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Samples 72695-1 and 72695-2 required dilution due to PCB concentrations that exceeded the calibration range of the instrument.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72695

Revision: Rev. 0

Re: UMaine-Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 25 April 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
72695-1	04/24/12	UMSC-CBK-251	EPA 8082 (PCBs only)	
72695-2	04/24/12	UMSC-CBK-252	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 5/1/2012

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analytics environmental laboratory LLC

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 1, 2012

SAMPLE DATA

Lab Sample ID: B042612PSOX RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 04/26/12
Analysis Date: 04/30/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	93	%
Decachlorobiphenyl	70	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

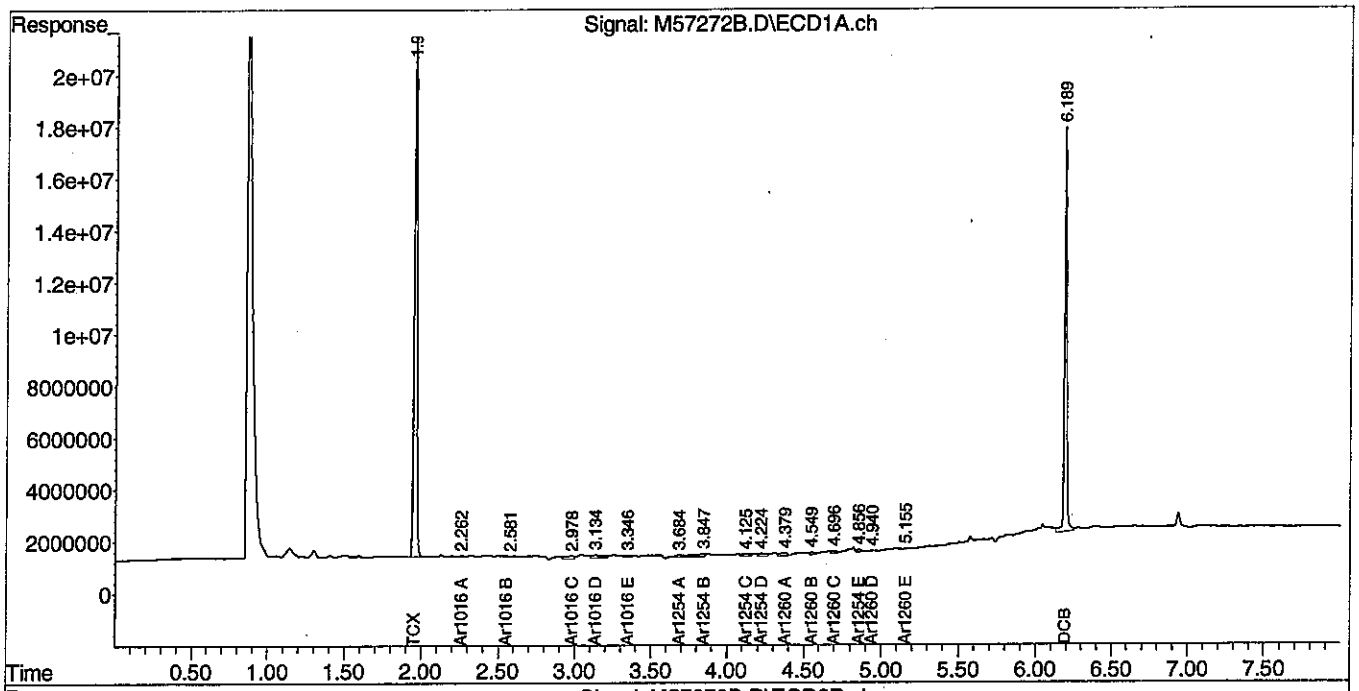
PCB Report

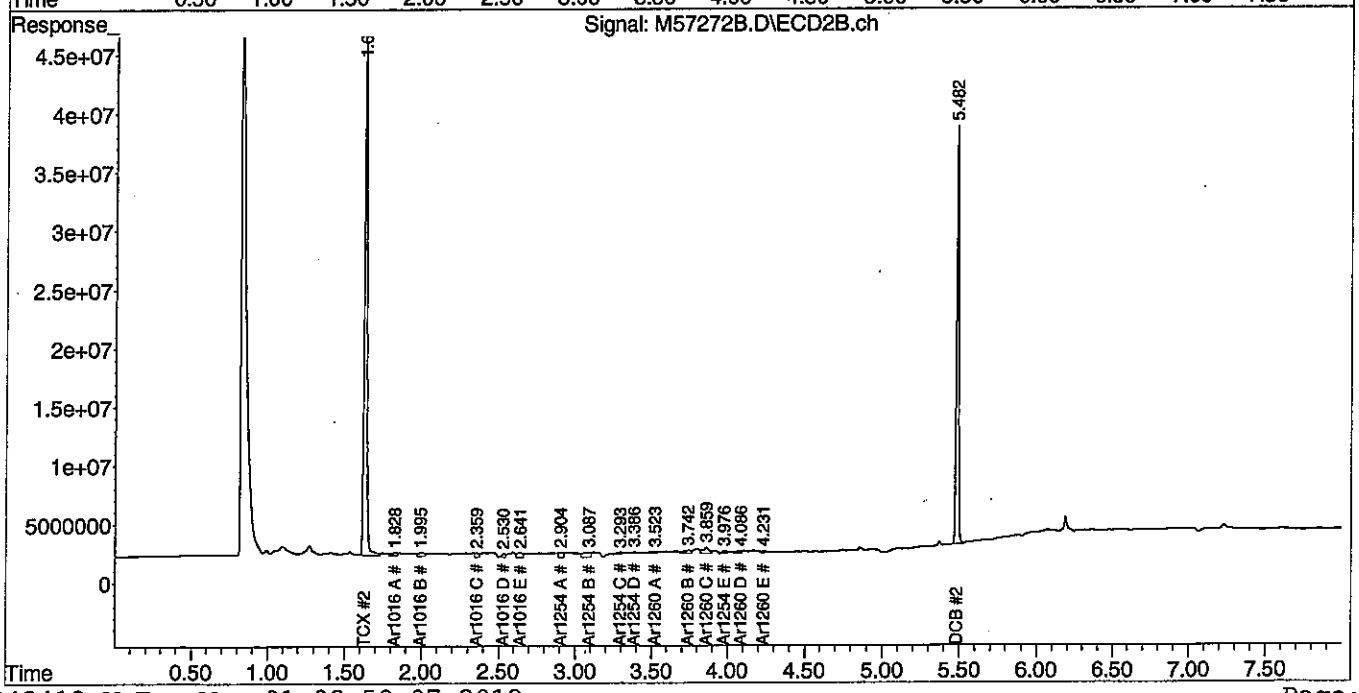
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\043012-M\
Data File : M57272B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 30 Apr 2012 11:57 pm
Operator : JK/AR
Sample : B042612PSOX,RR,,A/C
Misc : SOIL
ALS Vial : 11 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 01 08:57:43 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 1, 2012

SAMPLE DATA

Lab Sample ID:	72695-1
Matrix:	Solid
Percent Solid:	97
Dilution Factor:	13
Collection Date:	04/24/12
Lab Receipt Date:	04/25/12
Extraction Date:	04/26/12
Analysis Date:	05/01/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-CBK-251

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	429	U
PCB-1221	429	U
PCB-1232	429	U
PCB-1242	429	U
PCB-1248	429	U
PCB-1254	429	**8960**
PCB-1260	429	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	72	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Jenna Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72695
Sample: 72695-1,1:2,,A/C
Data File: M57273.D
Dilution Factor: 13.2

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	8221	8958	8.6	

Column to be used to flag RPD values greater than QC limit of 40%
* Values outside QC limits

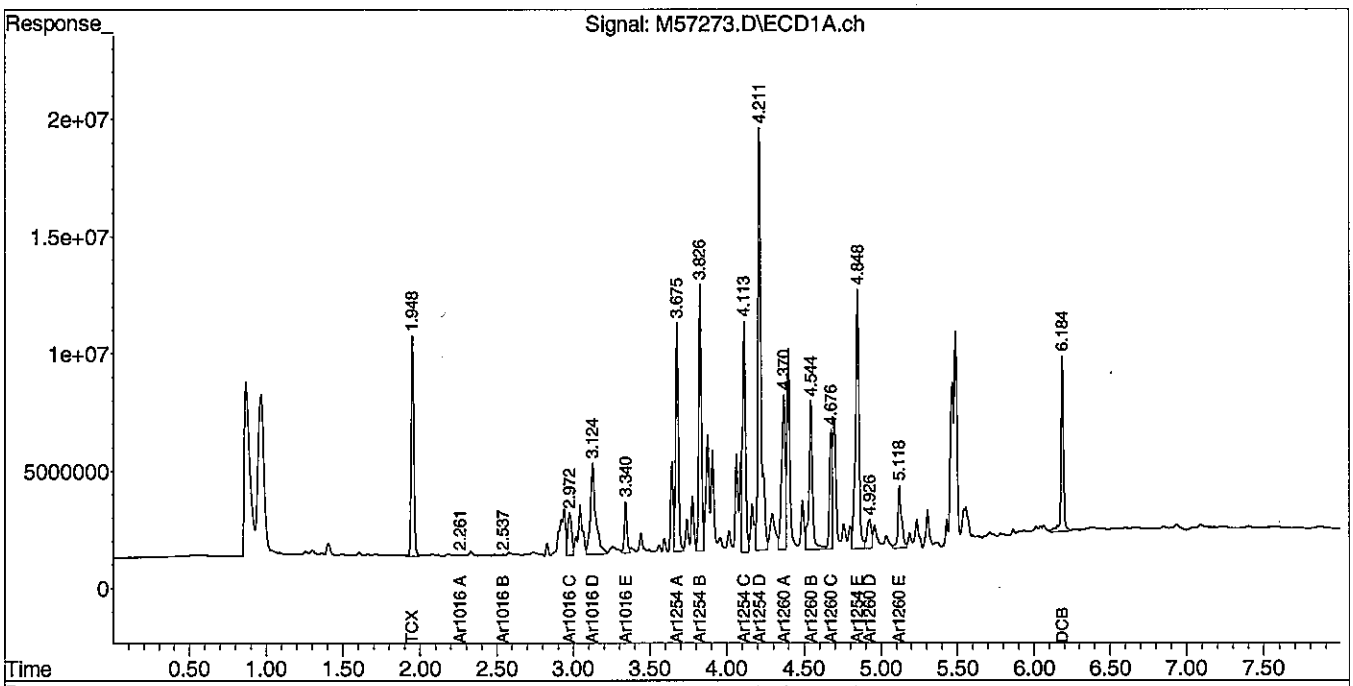
Comments: _____

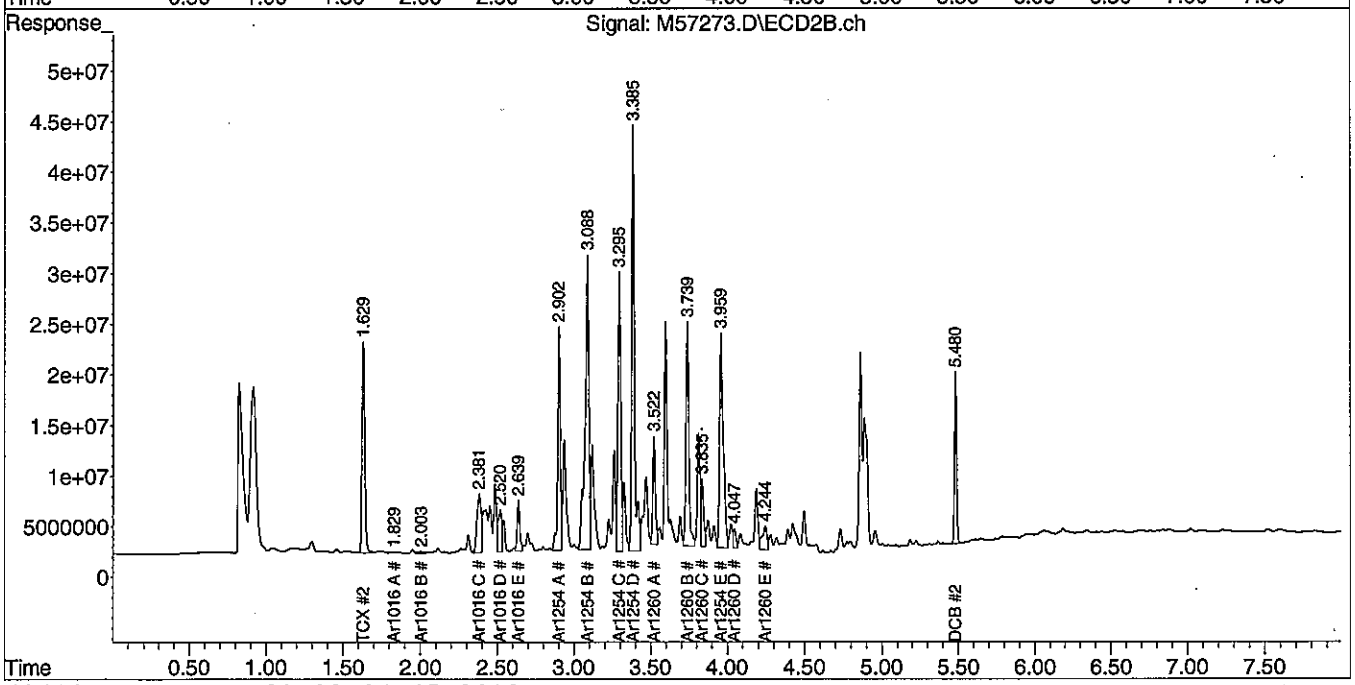
PCB FORM 10

Data Path : C:\msdchem\1\DATA\043012-M\
Data File : M57273.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 May 2012 12:07 am
Operator : JK/AR
Sample : 72695-1,1:2,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

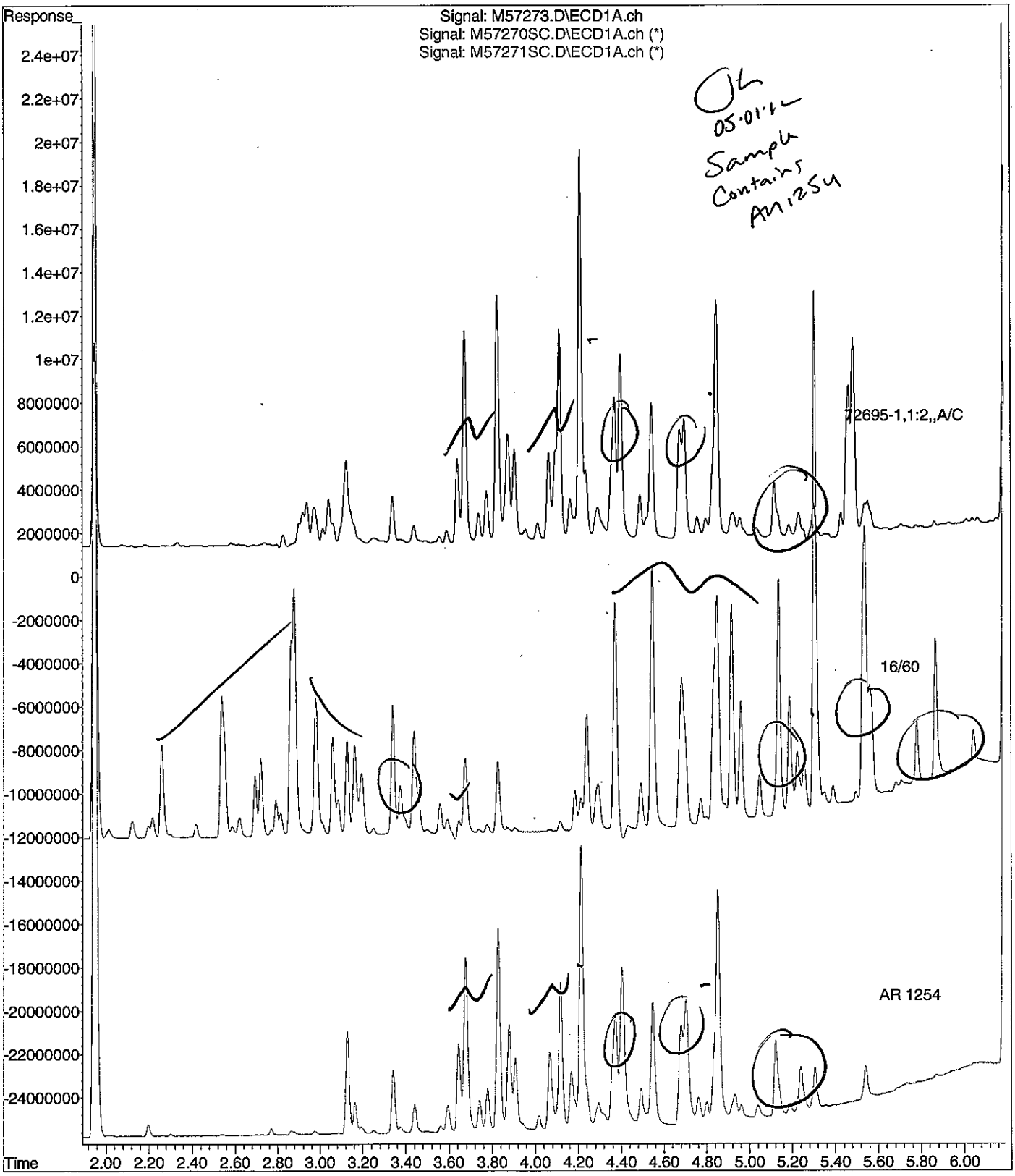
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 01 09:04:31 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\043012-M\M57273.D
Operator : JK/AR
Acquired : 1 May 2012 12:07 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72695-1,1:2,,A/C
Misc Info : SOIL
Vial Number: 12



JK 5.1.12

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 1, 2012

SAMPLE DATA

Lab Sample ID:	72695-2
Matrix:	Solid
Percent Solid:	99
Dilution Factor:	16
Collection Date:	04/24/12
Lab Receipt Date:	04/25/12
Extraction Date:	04/26/12
Analysis Date:	05/01/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-CBK-252

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	528	U
PCB-1221	528	U
PCB-1232	528	U
PCB-1242	528	U
PCB-1248	528	U
PCB-1254	528	**12900**
PCB-1260	528	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Jenna Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72695
Sample: 72695-2,1:2,,A/C
Data File: M57274.D
Dilution Factor: 16.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	11643	12937	10.5	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

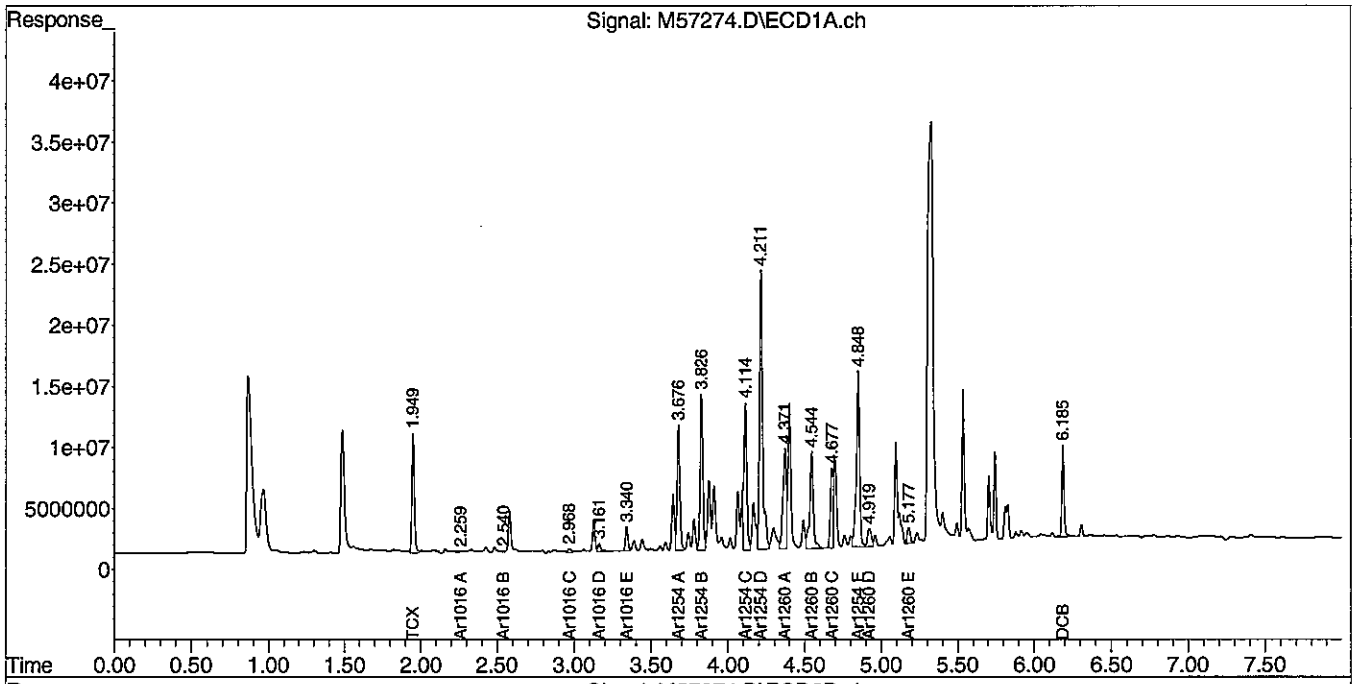
Comments: _____

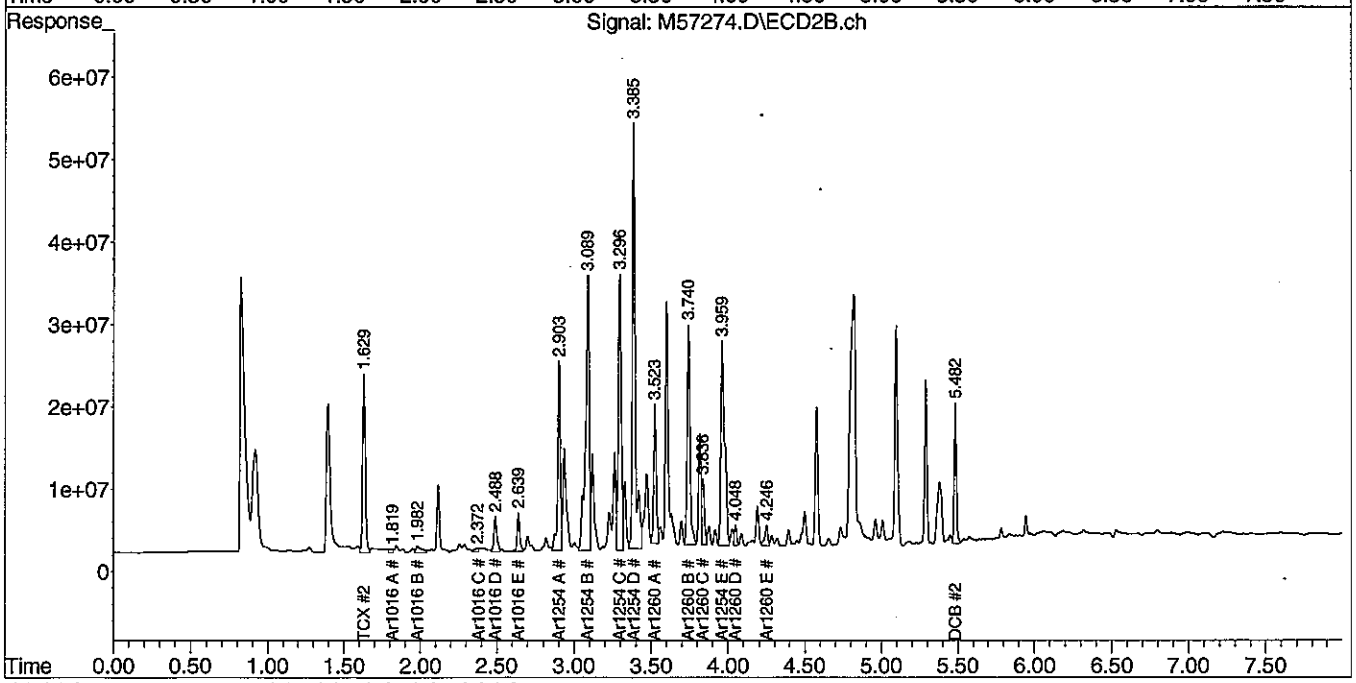
PCB FORM 10

Data Path : C:\msdchem\1\DATA\043012-M\
Data File : M57274.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 1 May 2012 12:17 am
Operator : JK/AR
Sample : 72695-2,1:2,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

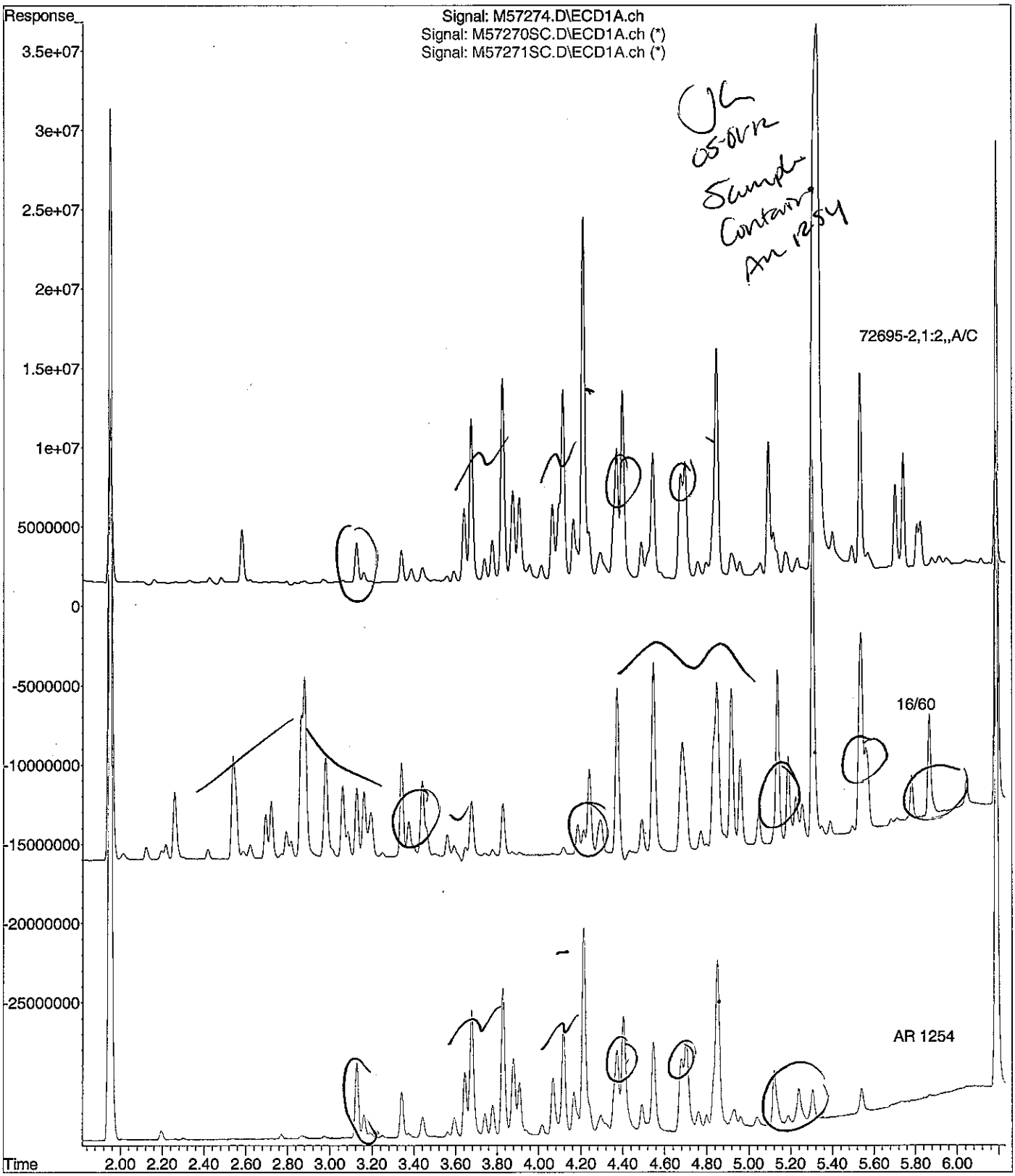
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 01 09:06:24 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\043012-M\M57274.D
Operator : JK/AR
Acquired : 1 May 2012 12:17 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72695-2,1:2,,A/C
Misc Info : SOIL
Vial Number: 13



JL 05-01-12 Sample Contains Aroclor 1254

 JL 5.1.12

analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72695

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B042612PSOX,RR,,A/C	84		65		83		65	
L042612PSOX,RR,,A/C	84		67		82		69	
LD042612PSOX,RR,,A/C	89		85		85		84	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72695

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B042612PSOX,RR,,A/C	93		70		92		72	
72695-1,1:2,,A/C	86		72		90		67	
72695-2,1:2,,A/C	87		66		90		73	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72695

Non-spiked sample: B042612PSOX,RR,,A/C

Spike: L042612PSOX,RR,,A/C

Spike duplicate: LD042612PSOX,RR,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	163	82		197	98		18.6	
PCB 1260	200	200	60	130	30	0	161	81		188	94		15.3	
PCB 1016 #2	200	200	65	140	30	0	149	75		172	86		14.4	
PCB 1260 #2	200	200	60	130	30	0	169	84		205	103		19.4	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

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CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 13.3°
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: JW 4.25.12

Project Name: UMaine - Stevart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:
Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-CBK-251	4/24/12	13:15					B						X	1		72695-1
UMSC-CBK-252	4/24/12	13:25					B						X	1		2

Email Results to:
awallace@WoodardCurran.com

Turnaround Time (TAT)
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☒ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH
☐ MA
☒ ME
☐ CT
☐ RI
Other:

State Standard:
(eg. S-1 or GW-1)
EDD Required: Y or N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Date: 4/24/12	Time: 4:00	Received By: UPS
Relinquished By: UPS	Date: 4/25/12	Time: 1330	Received By:
Relinquished By:	Date:	Time:	Received By:

Page ____ of ____

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72695 COOLER NUMBER: N/A

CLIENT: Woodard NUMBER OF COOLERS: none

PROJECT: Umaine-Stewart

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): CP DATE COOLER RECEIVED/OPENED: 4/25/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: UPS 12X13 095 03 9876 1877

4. Were custody seals on the outside of cooler? Y N
How many & where: none Seal Date: — Seal Name: —

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 13.3°

B. Log-In: Date samples were logged in: 4/25/12 By: CP

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were VOA samples absent of greater than pea-sized bubbles? Y N*/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): JW Date: 4.25.12

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed sheet containing the label at the line so that the entire shipping label is visible. Place the label on a single side of the package and cover it completely with clear plastic shipping tape. Do not cover any seams or closures on the package with the label.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   UPS locations include the UPS Store®, UPS drop boxes, UPS customer centers, authorized retail outlets and UPS drivers.
   Find your closest UPS location at: www.ups.com/dropoff
   Take your package to any location of The UPS Store®, UPS Drop Box, UPS Customer Center, UPS Alliances (Office Depot® or Staples®) or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

FOLD HERE

JANE VIOLETTE
207-945-5105
BANGOR
WOODARD & CURRAN
BANGOR ME 04401

3 LBS 1 OF 1

SHIP TO:
ANALYTICS ENVIRONMENTAL LABORATORY
6034365111
195 COMMERCE WAY - SUITE E
PORTSMOUTH NH 03801-3251

NH 038 0-01

UPS GROUND
TRACKING #: 1Z X13 095 03 9876 1877

BILLING: P/P

Project#\Phase or G.O.: 222822.00 004
Personal - Enter Y or N: N
CS 14.1.10. WNTE80 24.0A 01/2012

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

May 8, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72745
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Samples 72745-16 required a dilution due to PCB concentrations that exceeded the calibration range of the instrument.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72745

Revision: Rev. 0

Re: UMaine- Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 02 May 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Sample Analysis: The attached pages detail the Client Sample IDs, Lab Sample IDs, and Analyses requested

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 5/8/2012

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analytics environmental laboratory LLC

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CLIENT: Woodard & Curran **REPORT NUMBER: 72745** **REV: Rev. 0**

PROJECT: UMaine- Stewart Commons (Project No: 222822)

Lab Number	Sample Date	Station Location	Analysis	Comments
72745-1	04/30/12	UMSC-VBS-253	EPA 8082 (PCBs only)	
72745-2	04/30/12	UMSC-VBS-254	EPA 8082 (PCBs only)	
72745-3	04/30/12	UMSC-VBS-255	EPA 8082 (PCBs only)	
72745-4	04/30/12	UMSC-VBS-256	EPA 8082 (PCBs only)	
72745-5	05/01/12	UMSC-VBS-257	EPA 8082 (PCBs only)	
72745-6	05/01/12	UMSC-VBS-258	EPA 8082 (PCBs only)	
72745-7	05/01/12	UMSC-VBS-259	EPA 8082 (PCBs only)	
72745-8	05/01/12	UMSC-VBS-260	EPA 8082 (PCBs only)	
72745-9	05/01/12	UMSC-VBS-261	EPA 8082 (PCBs only)	
72745-10	05/01/12	UMSC-VBS-262	EPA 8082 (PCBs only)	
72745-11	05/01/12	UMSC-VBS-263	EPA 8082 (PCBs only)	
72745-12	05/01/12	UMSC-VBS-264	EPA 8082 (PCBs only)	
72745-13	05/01/12	UMSC-VBS-265	EPA 8082 (PCBs only)	
72745-14	05/01/12	UMSC-VBS-266	EPA 8082 (PCBs only)	
72745-15	05/01/12	UMSC-VBS-267	EPA 8082 (PCBs only)	
72745-16	05/01/12	UMSC-VBS-268	EPA 8082 (PCBs only)	

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Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

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PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

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Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID: B050212PSOX2 RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 05/02/12
Analysis Date: 05/04/12

CLIENT SAMPLE ID

Project Name: UMaine- Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	83	%
Decachlorobiphenyl	61	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

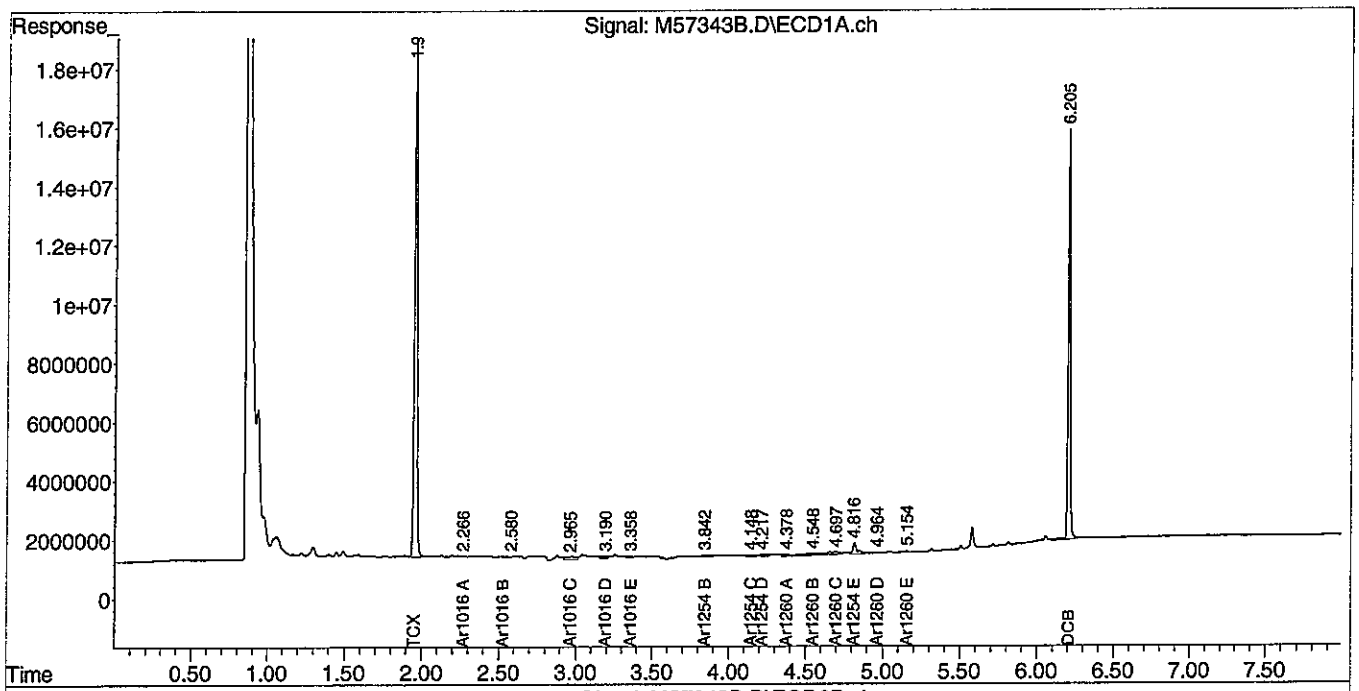
PCB Report

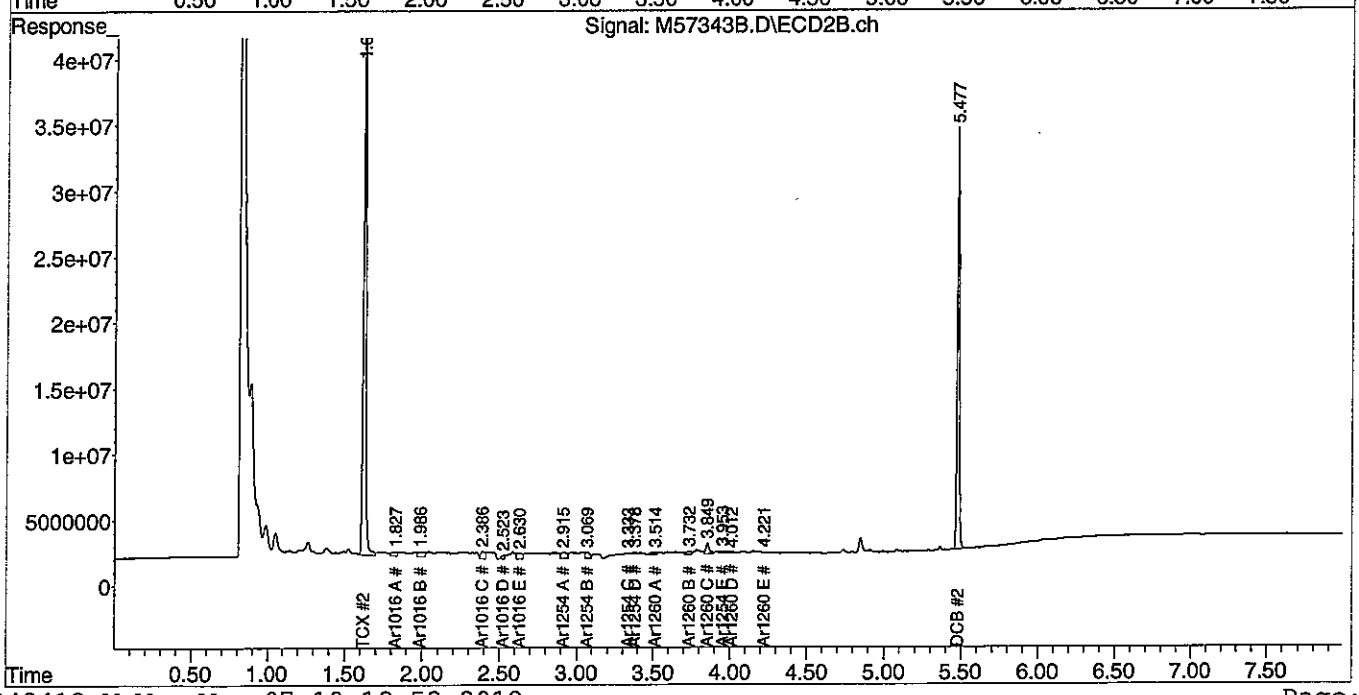
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57343B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 10:13 am
Operator : JK
Sample : B050212PSOX2,RR,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 10:17:53 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:33 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
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Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-1
Matrix:	Solid
Percent Solid:	83
Dilution Factor:	1.1
Collection Date:	04/30/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-253

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	104	%
Decachlorobiphenyl	70	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

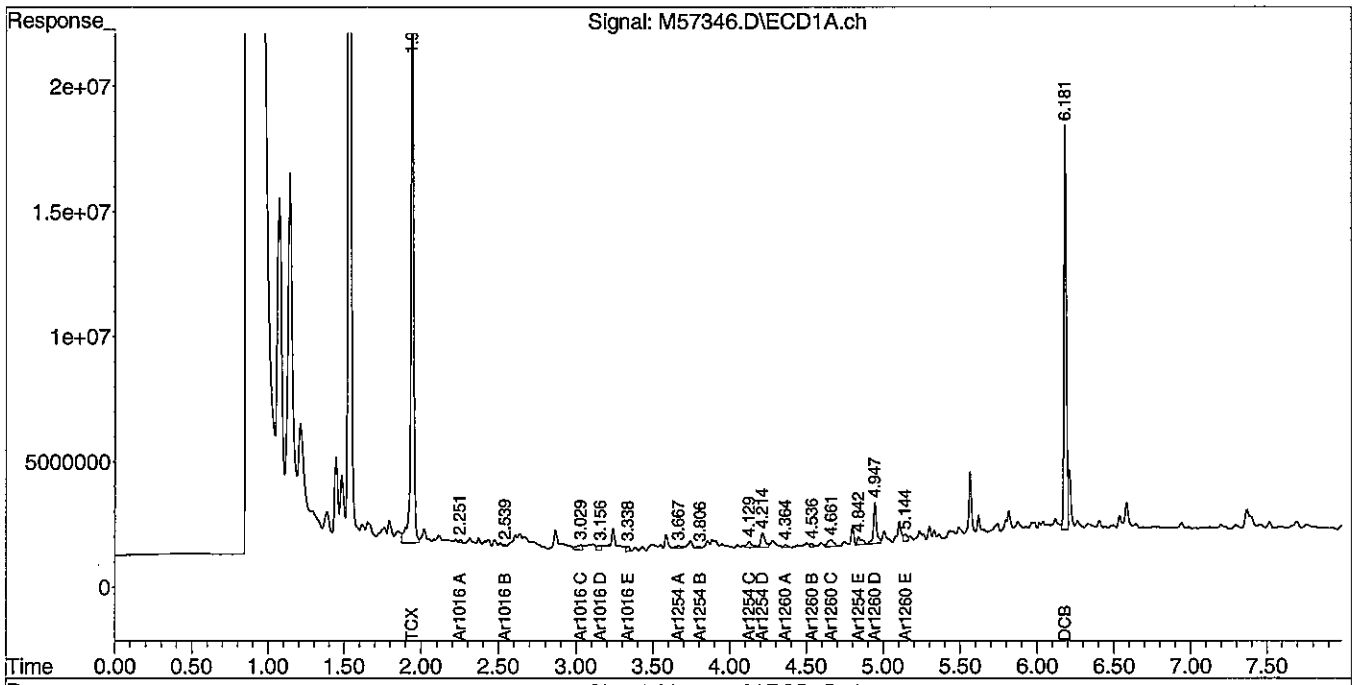
PCB Report

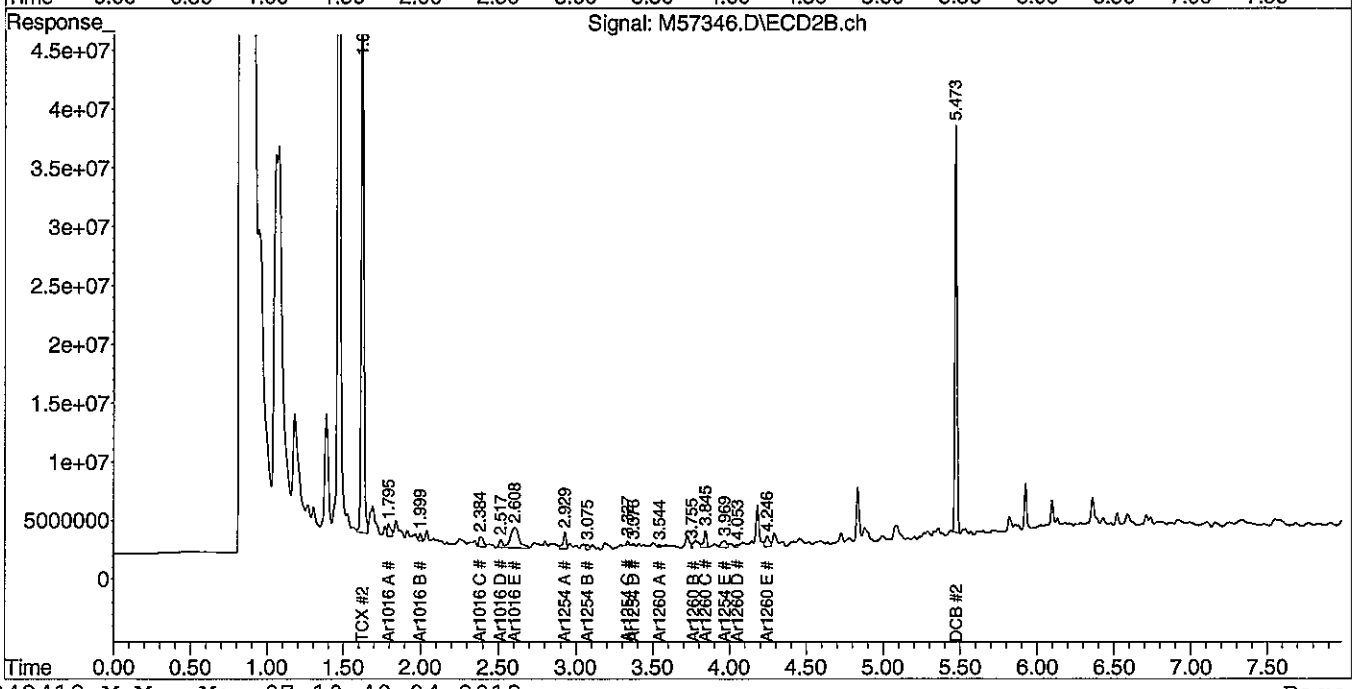
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57346.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 10:43 am
Operator : JK
Sample : 72745-1,,A/C
Misc : SOIL
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 10:48:58 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
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Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-2
Matrix:	Solid
Percent Solid:	85
Dilution Factor:	1.1
Collection Date:	04/30/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-254

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	99	%
Decachlorobiphenyl	66	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

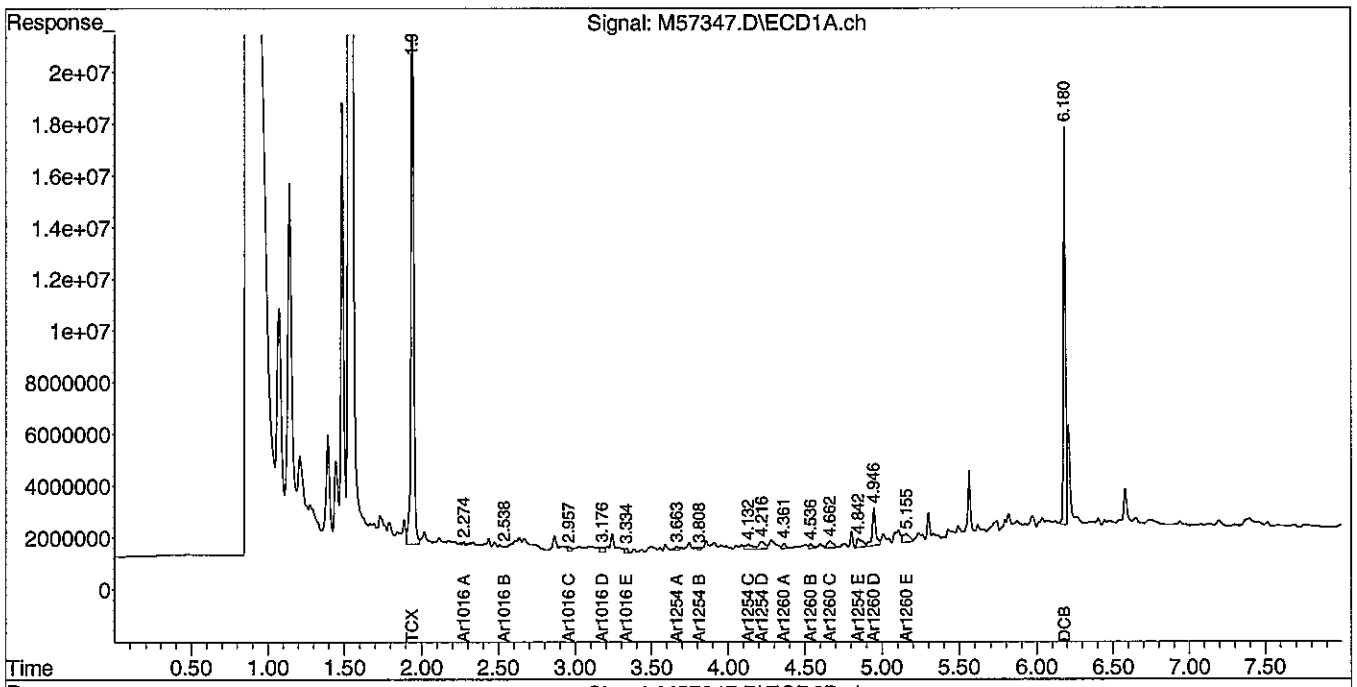
PCB Report

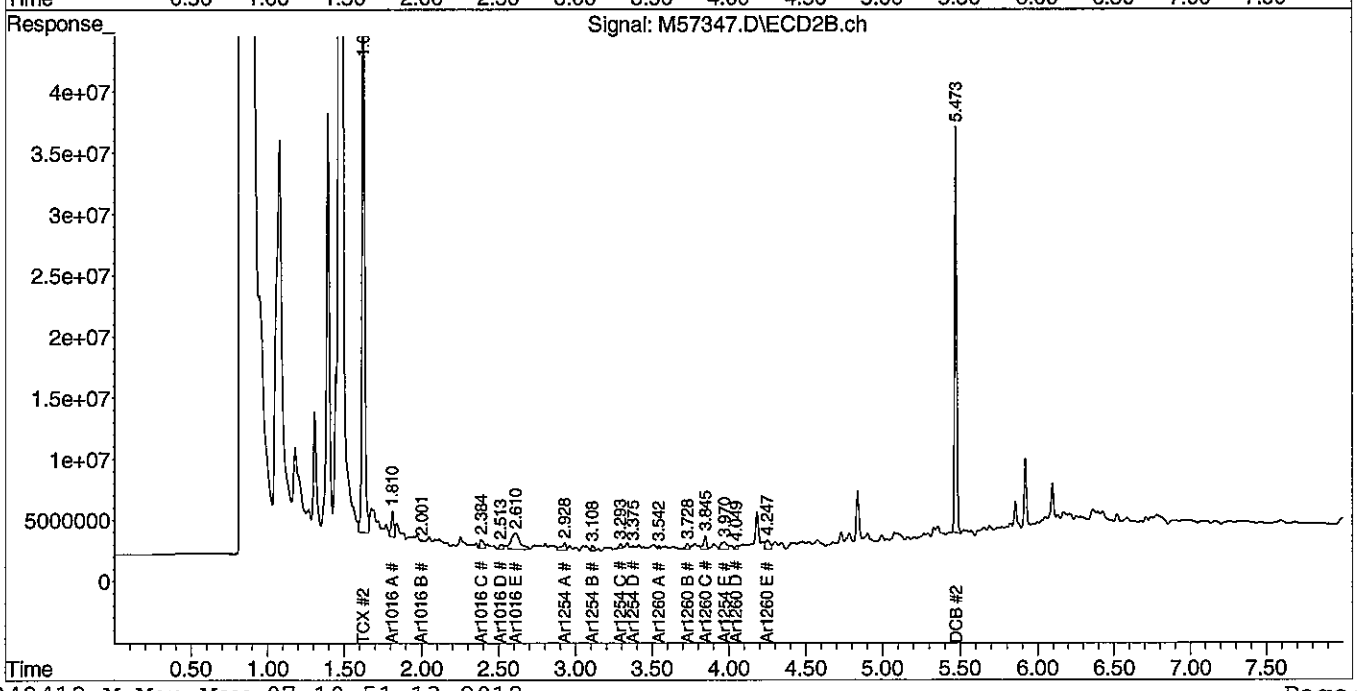
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57347.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 10:53 am
Operator : JK
Sample : 72745-2,,A/C
Misc : SOIL
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 10:51:06 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-3
Matrix:	Solid
Percent Solid:	81
Dilution Factor:	1.2
Collection Date:	04/30/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-255

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	40	U
PCB-1221	40	U
PCB-1232	40	U
PCB-1242	40	U
PCB-1248	40	U
PCB-1254	40	U
PCB-1260	40	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	87	%
Decachlorobiphenyl	64	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

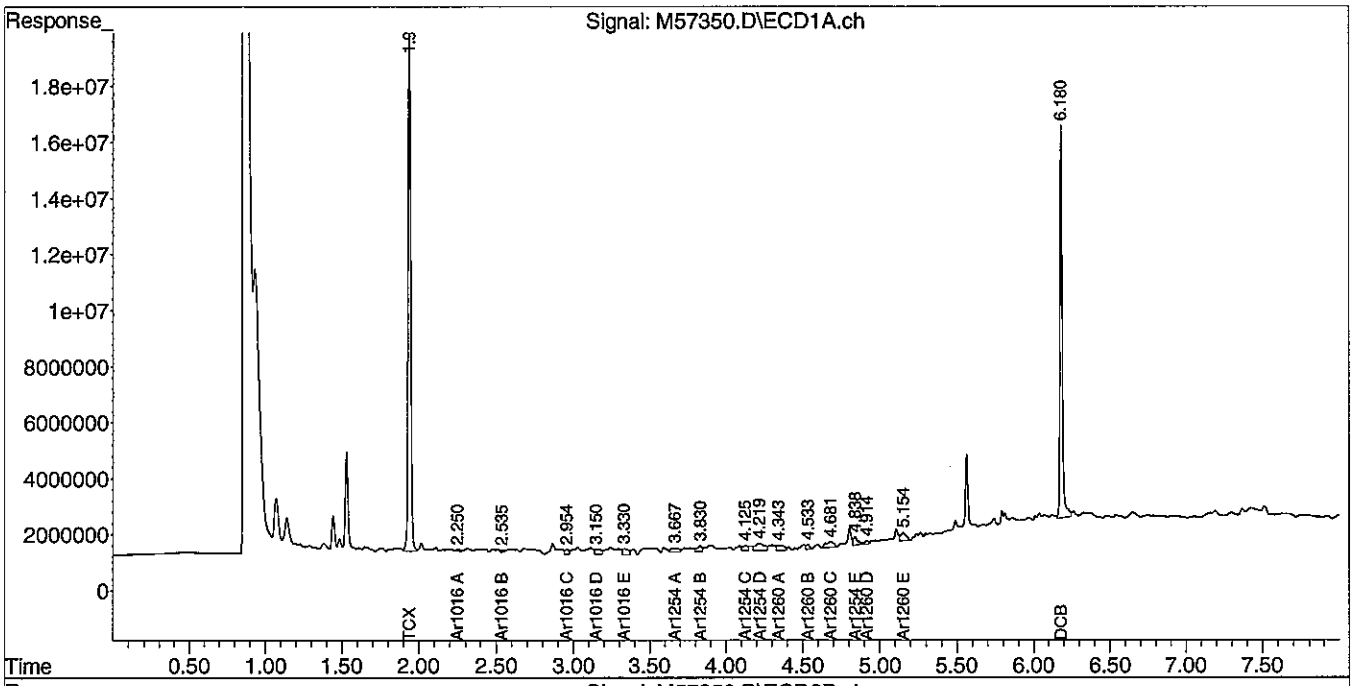
PCB Report

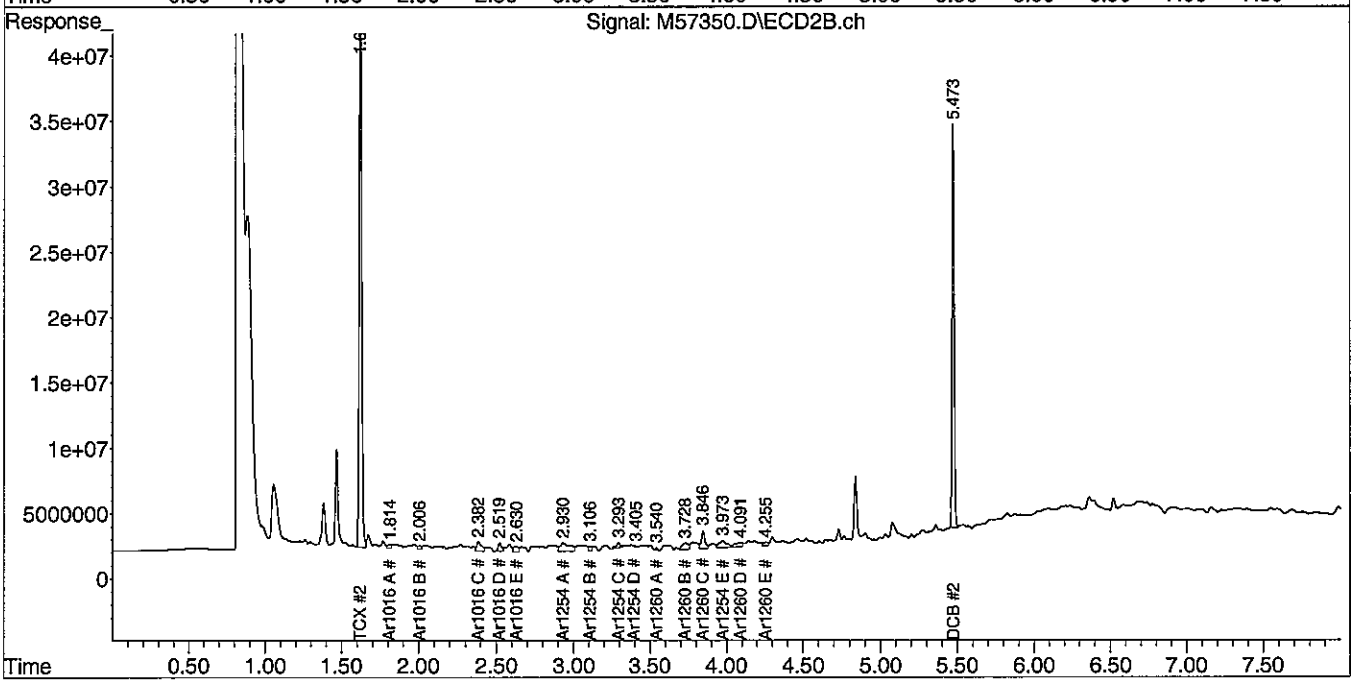
Authorized signature Angelina Rahard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57350.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 11:23 am
Operator : JK
Sample : 72745-3,,A/C
Misc : SOIL
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 10:18:07 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-4
Matrix:	Solid
Percent Solid:	82
Dilution Factor:	1.1
Collection Date:	04/30/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-256

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	63	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

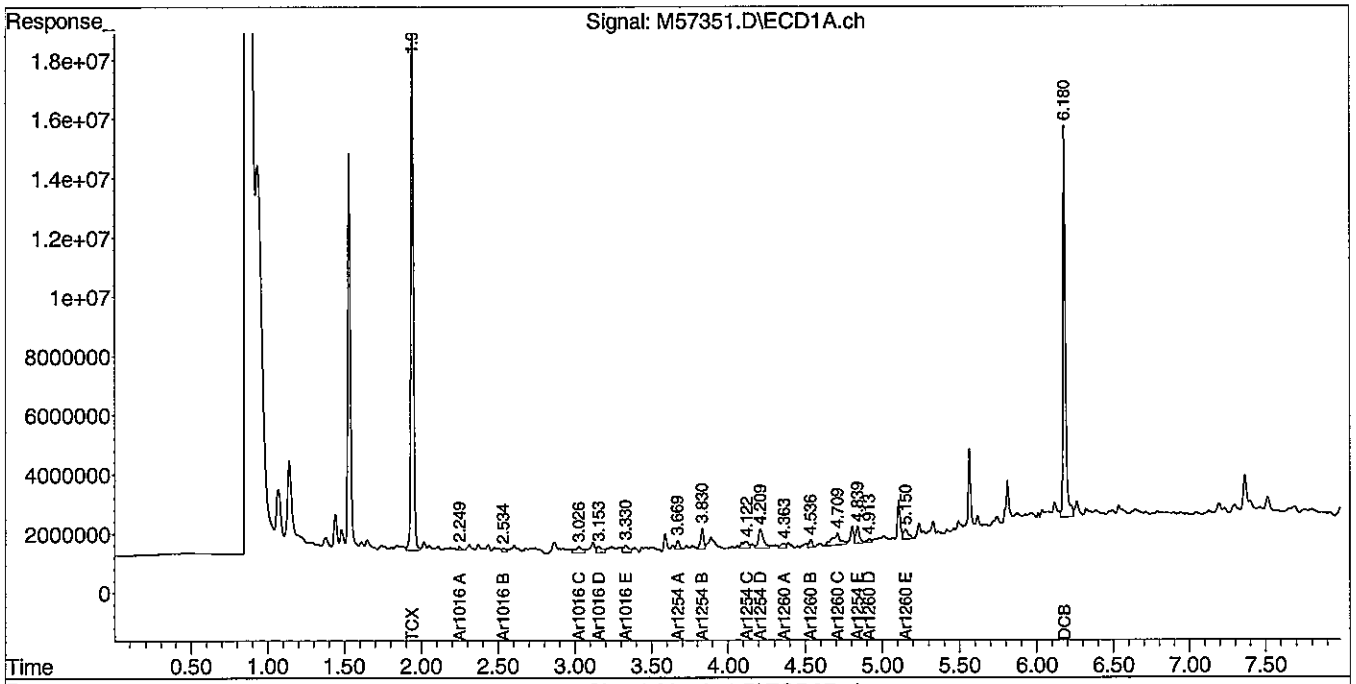
PCB Report

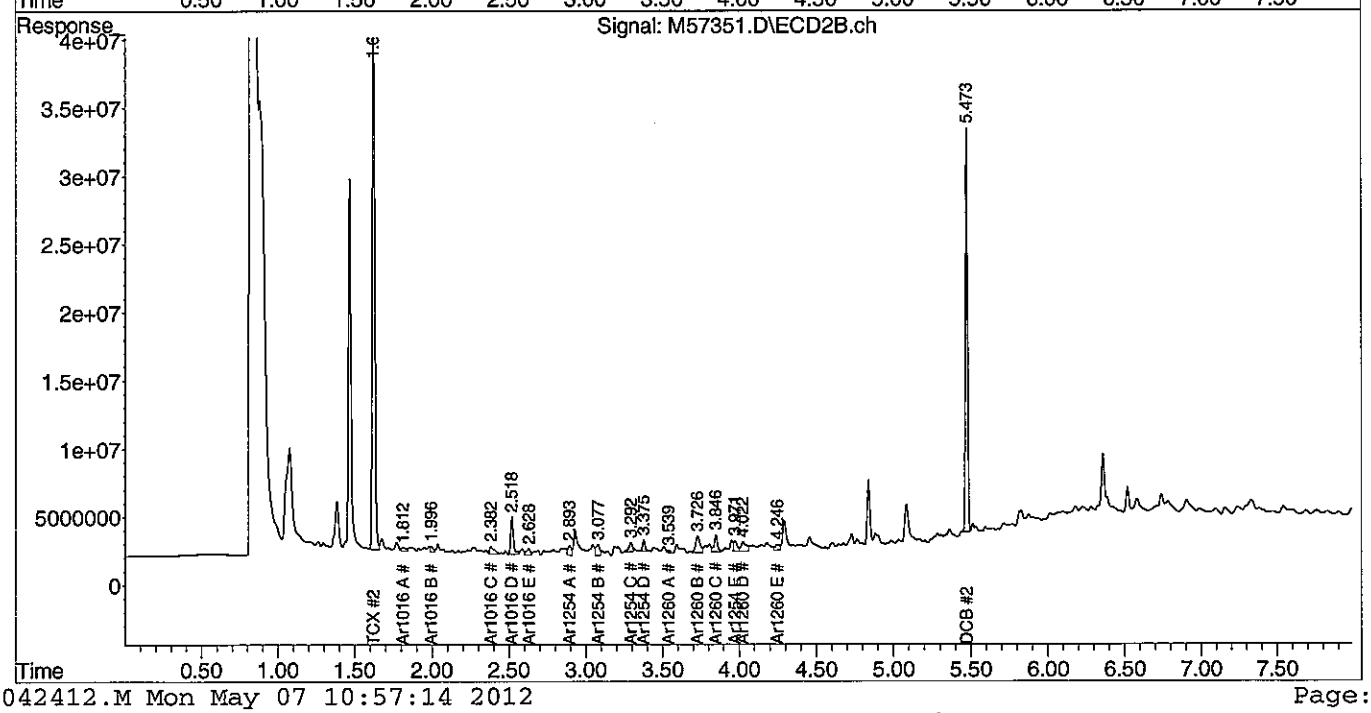
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57351.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 11:33 am
Operator : JK
Sample : 72745-4,,A/C
Misc : SOIL
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 10:18:09 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-5
Matrix:	Solid
Percent Solid:	81
Dilution Factor:	1.2
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-257

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	40	U
PCB-1221	40	U
PCB-1232	40	U
PCB-1242	40	U
PCB-1248	40	U
PCB-1254	40	U
PCB-1260	40	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	85	%
Decachlorobiphenyl	79	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

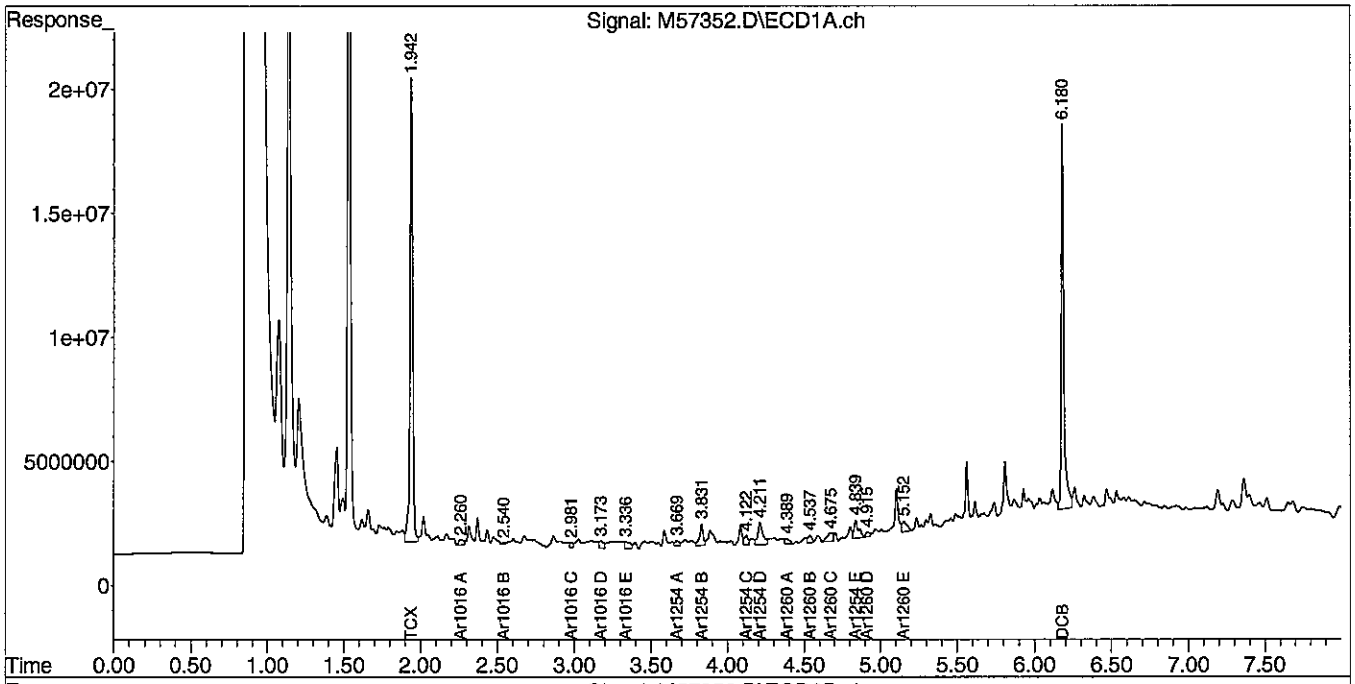
PCB Report

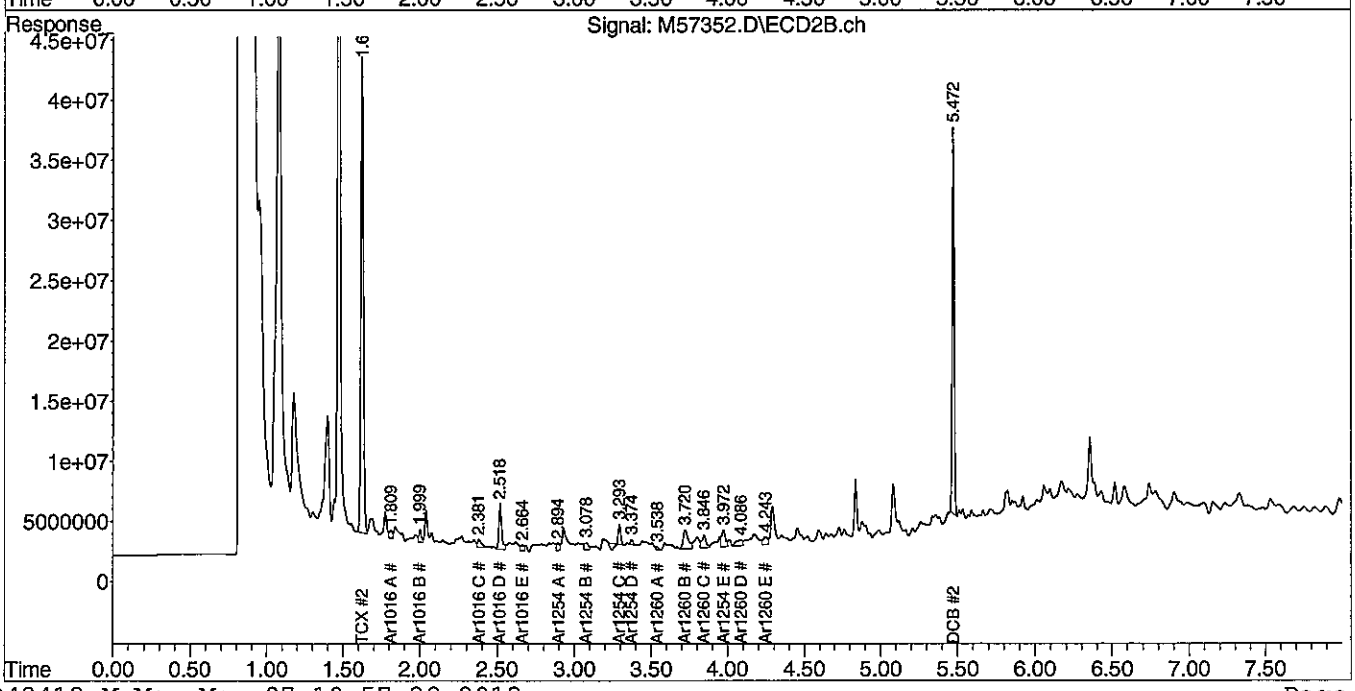
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57352.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 11:43 am
Operator : JK
Sample : 72745-5,,A/C
Misc : SOIL
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 10:18:11 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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41 Hutchins Drive
Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-6
Matrix:	Solid
Percent Solid:	80
Dilution Factor:	1.2
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-258

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	40	U
PCB-1221	40	U
PCB-1232	40	U
PCB-1242	40	U
PCB-1248	40	U
PCB-1254	40	U
PCB-1260	40	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	86	%
Decachlorobiphenyl	78	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

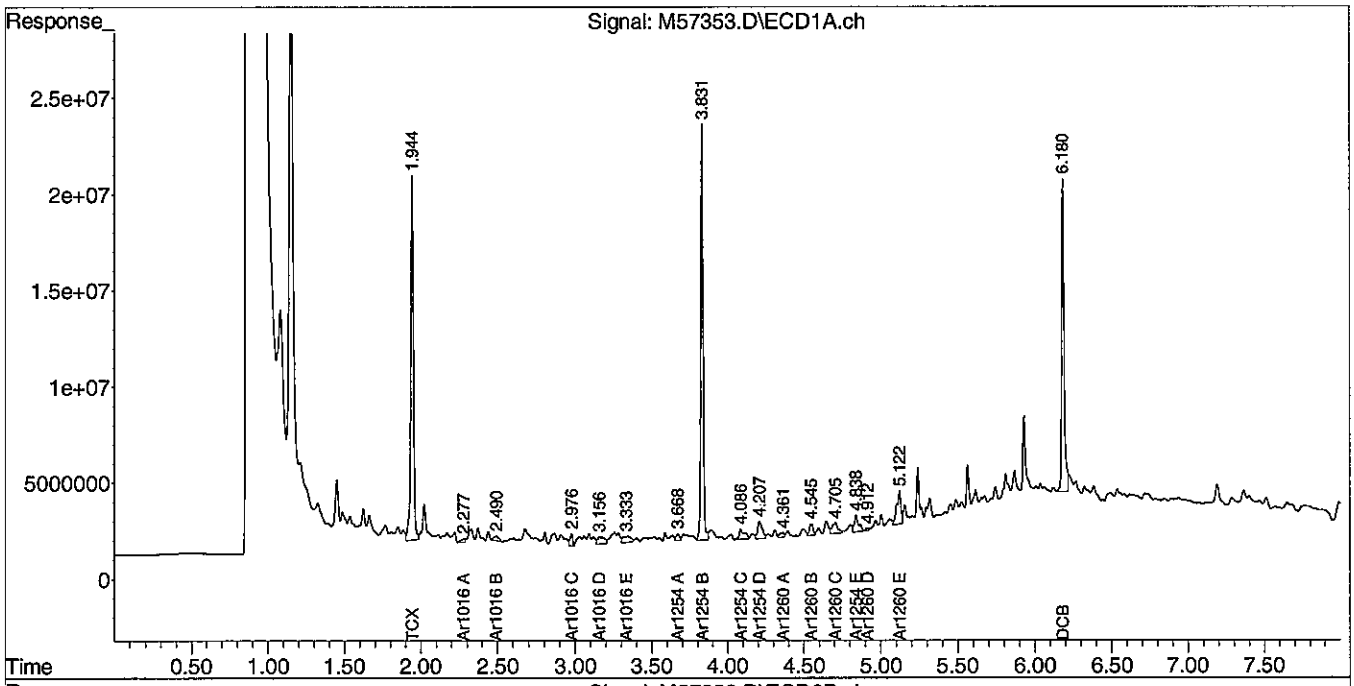
PCB Report

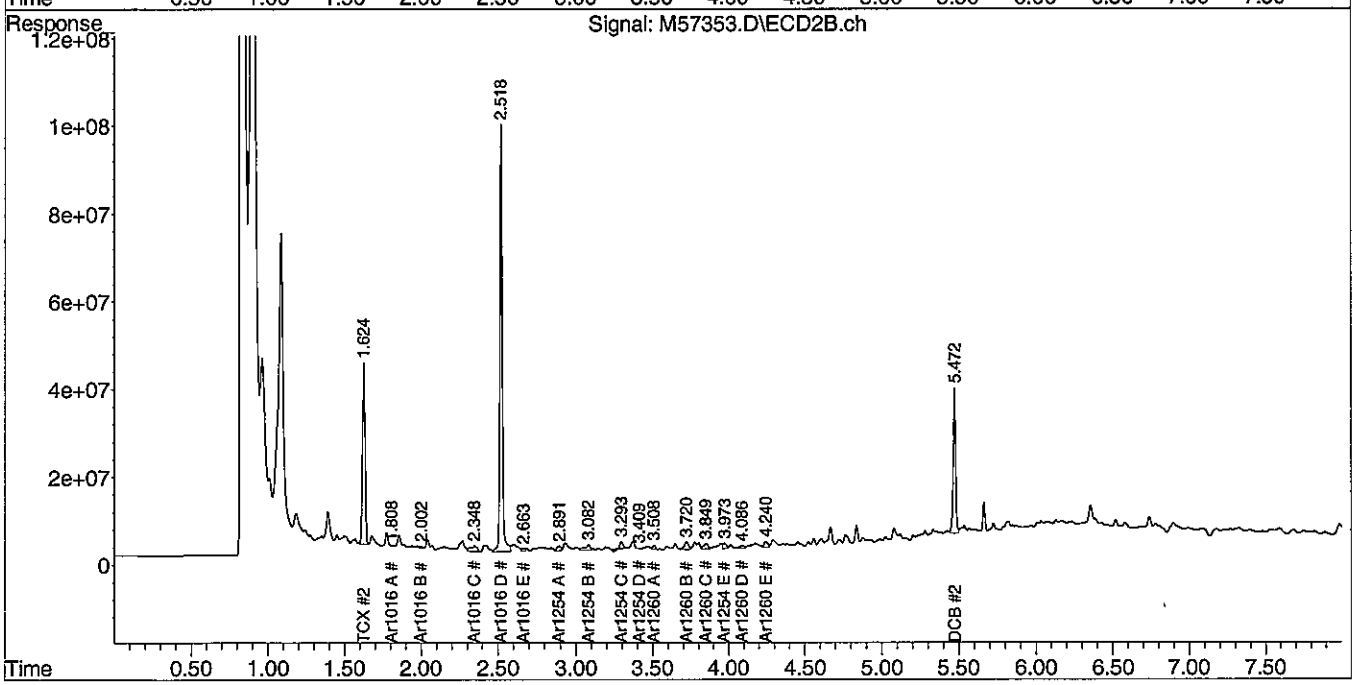
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57353.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 11:53 am
Operator : JK
Sample : 72745-6,,A/C
Misc : SOIL
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 10:57:50 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-7
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.0
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-259

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	80	%
Decachlorobiphenyl	68	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

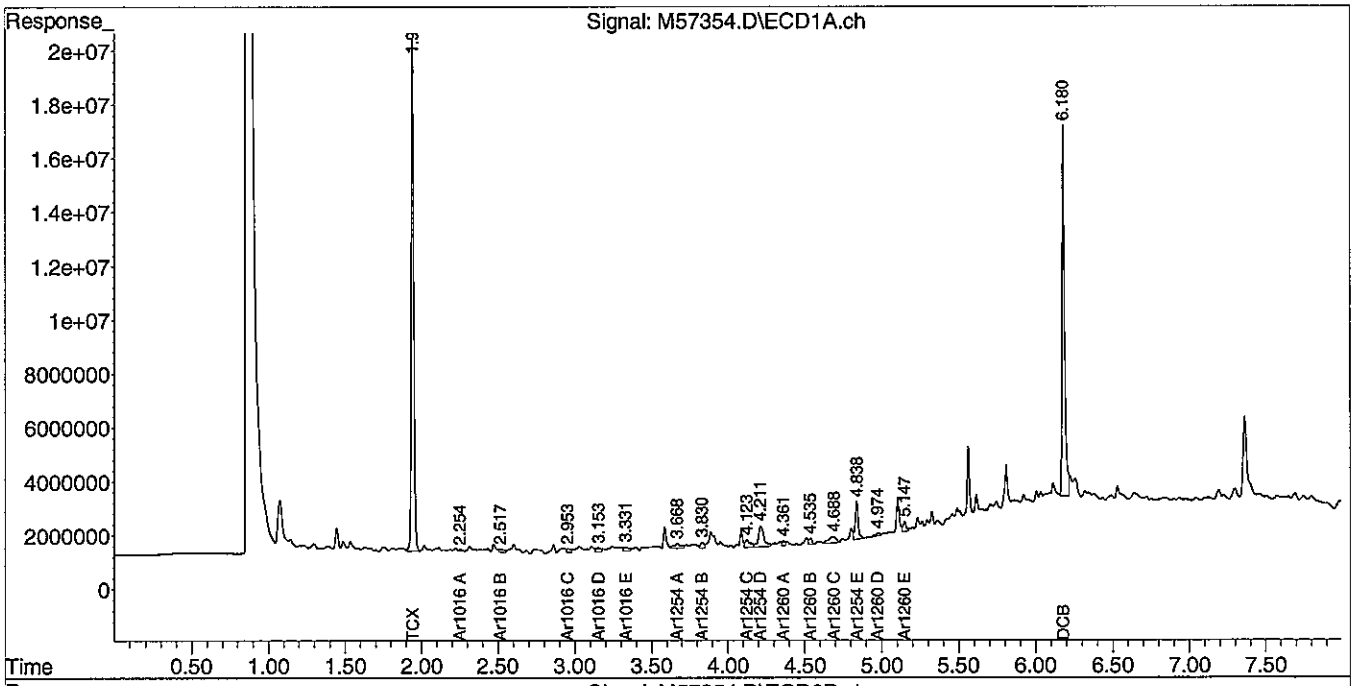
PCB Report

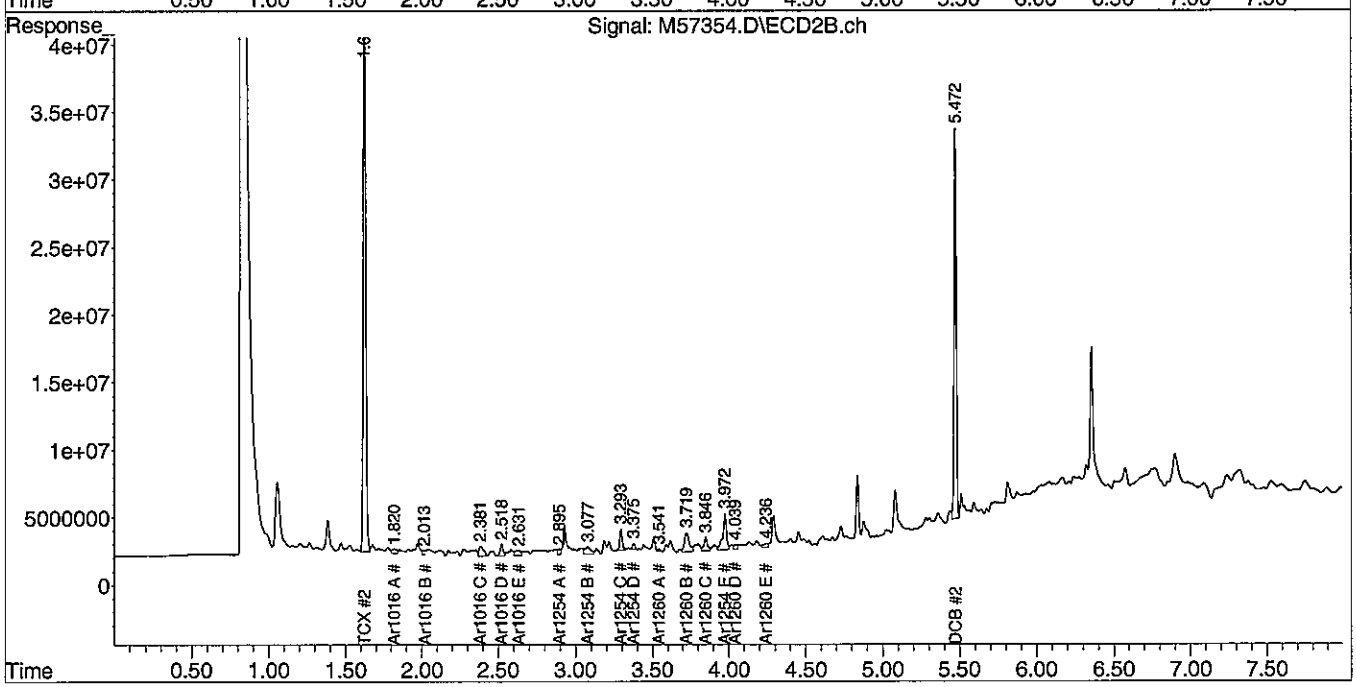
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57354.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 12:03 pm
Operator : JK
Sample : 72745-7,,A/C
Misc : SOIL
ALS Vial : 17 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 11:00:24 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-8
Matrix:	Solid
Percent Solid:	97
Dilution Factor:	1.0
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-260

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**95**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	84	%
Decachlorobiphenyl	61	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72745
Sample: 72745-8,,A/C
Data File: M57355.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	95	88	7.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

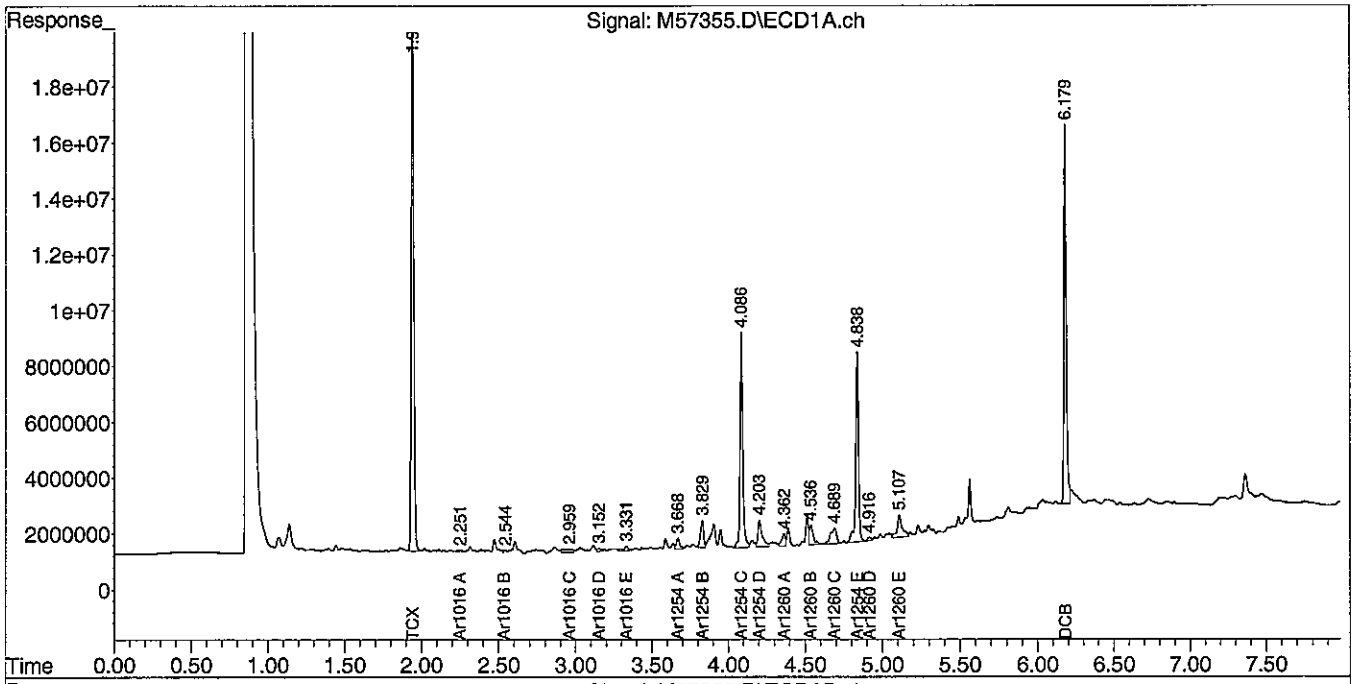
Comments: _____

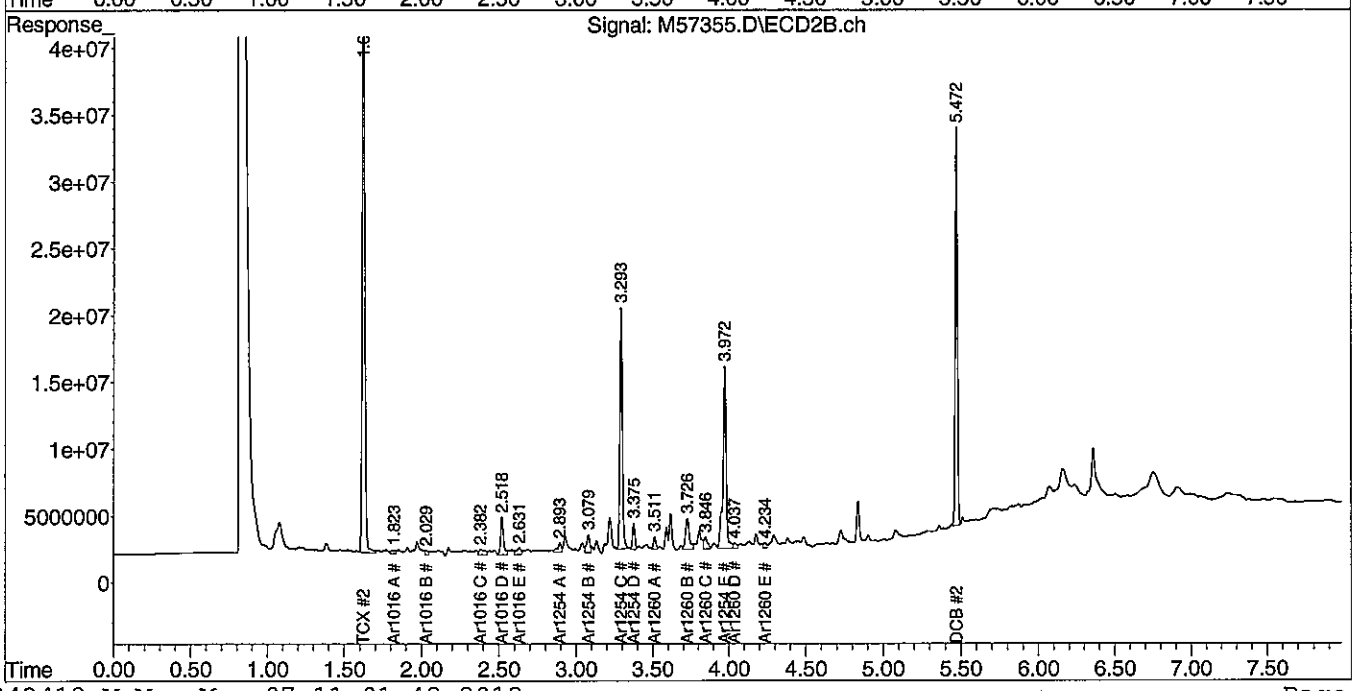
PCB FORM 10

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57355.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 12:14 pm
Operator : JK
Sample : 72745-8,,A/C
Misc : SOIL
ALS Vial : 18 Sample Multiplier: 1

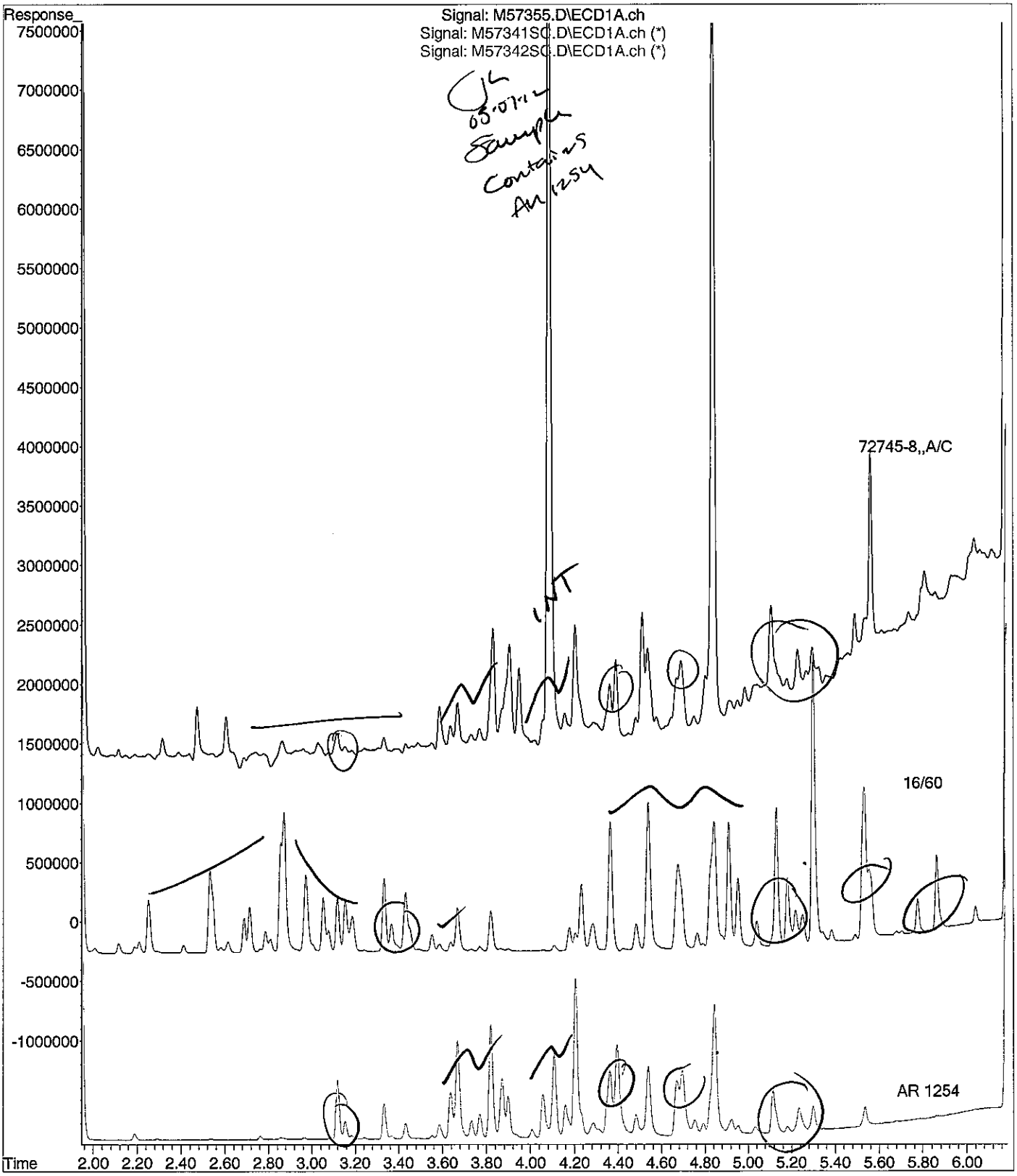
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 11:01:35 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\050412-M\M57355.D
Operator : JK
Acquired : 4 May 2012 12:14 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72745-8,,A/C
Misc Info : SOIL
Vial Number: 18



 5/8/12

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Ms. Amy Wallace
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May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-9
Matrix:	Solid
Percent Solid:	94
Dilution Factor:	1.0
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-261

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**864**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	98	%
Decachlorobiphenyl	86	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72745
Sample: 72745-9,,A/C
Data File: M57356.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	864	769	11.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

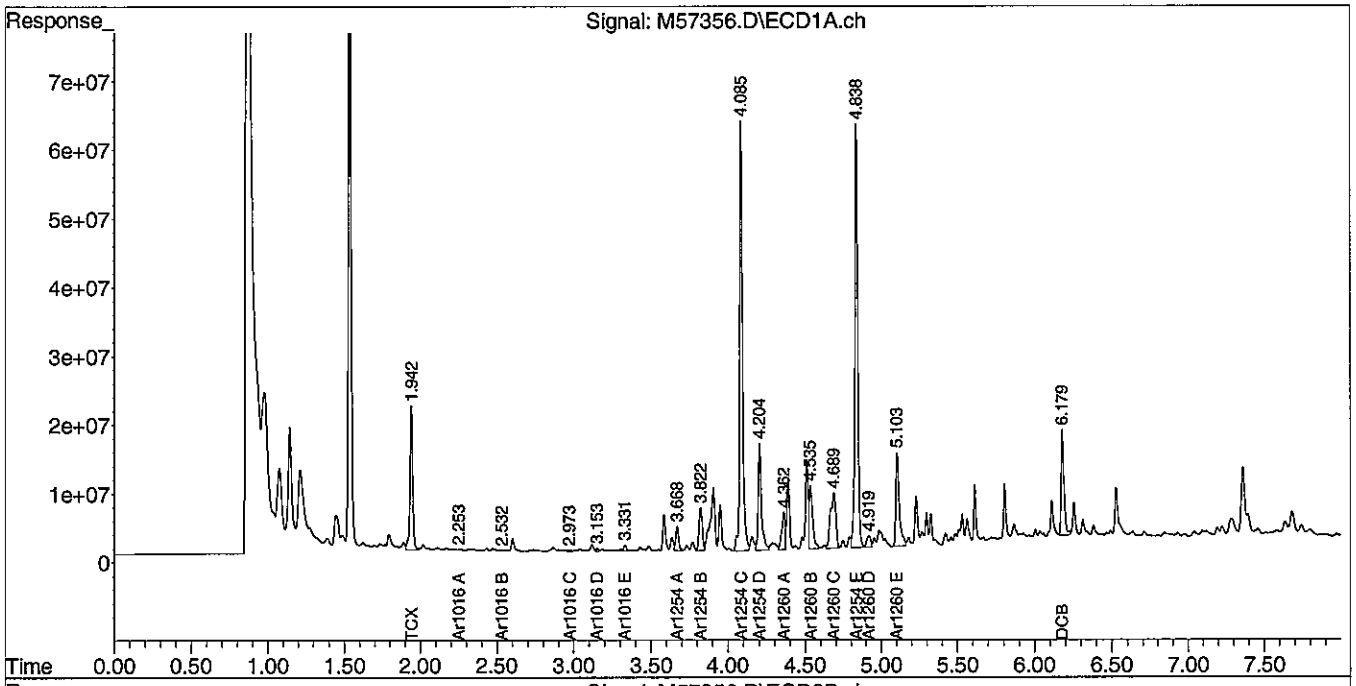
Comments: _____

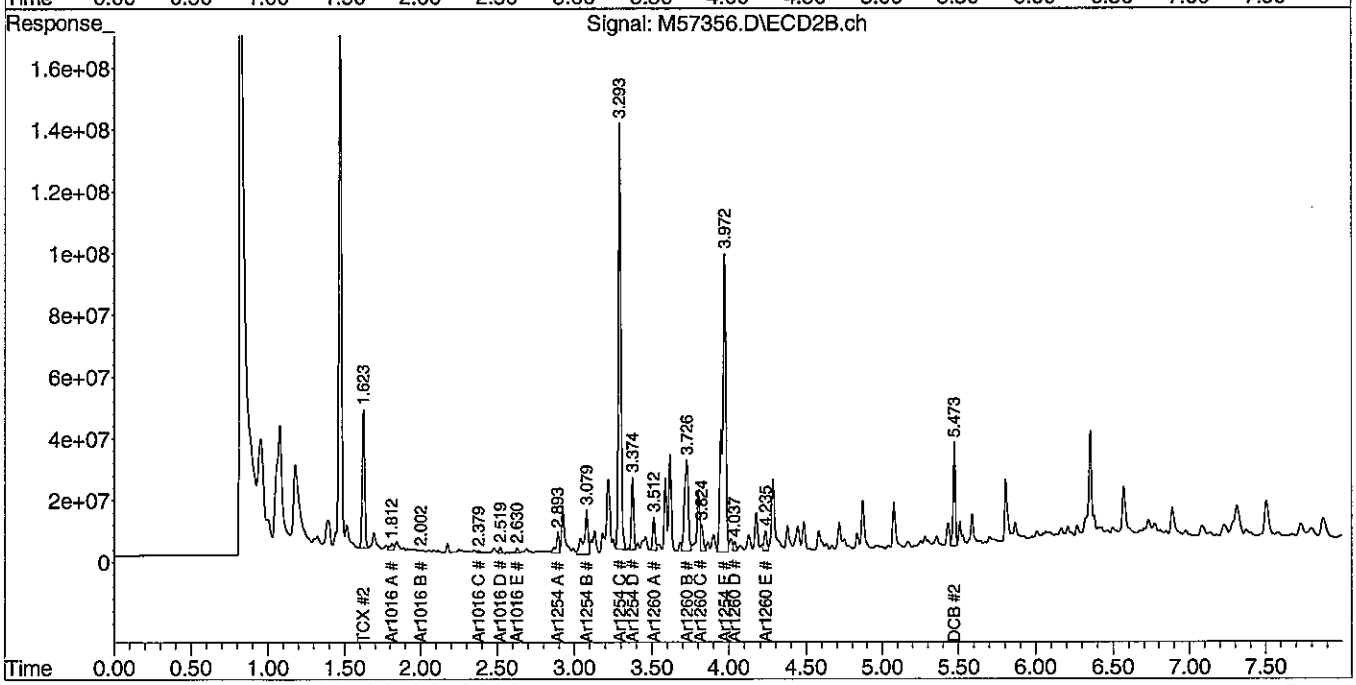
PCB FORM 10

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57356.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 12:24 pm
Operator : JK
Sample : 72745-9,,A/C
Misc : SOIL
ALS Vial : 19 Sample Multiplier: 1

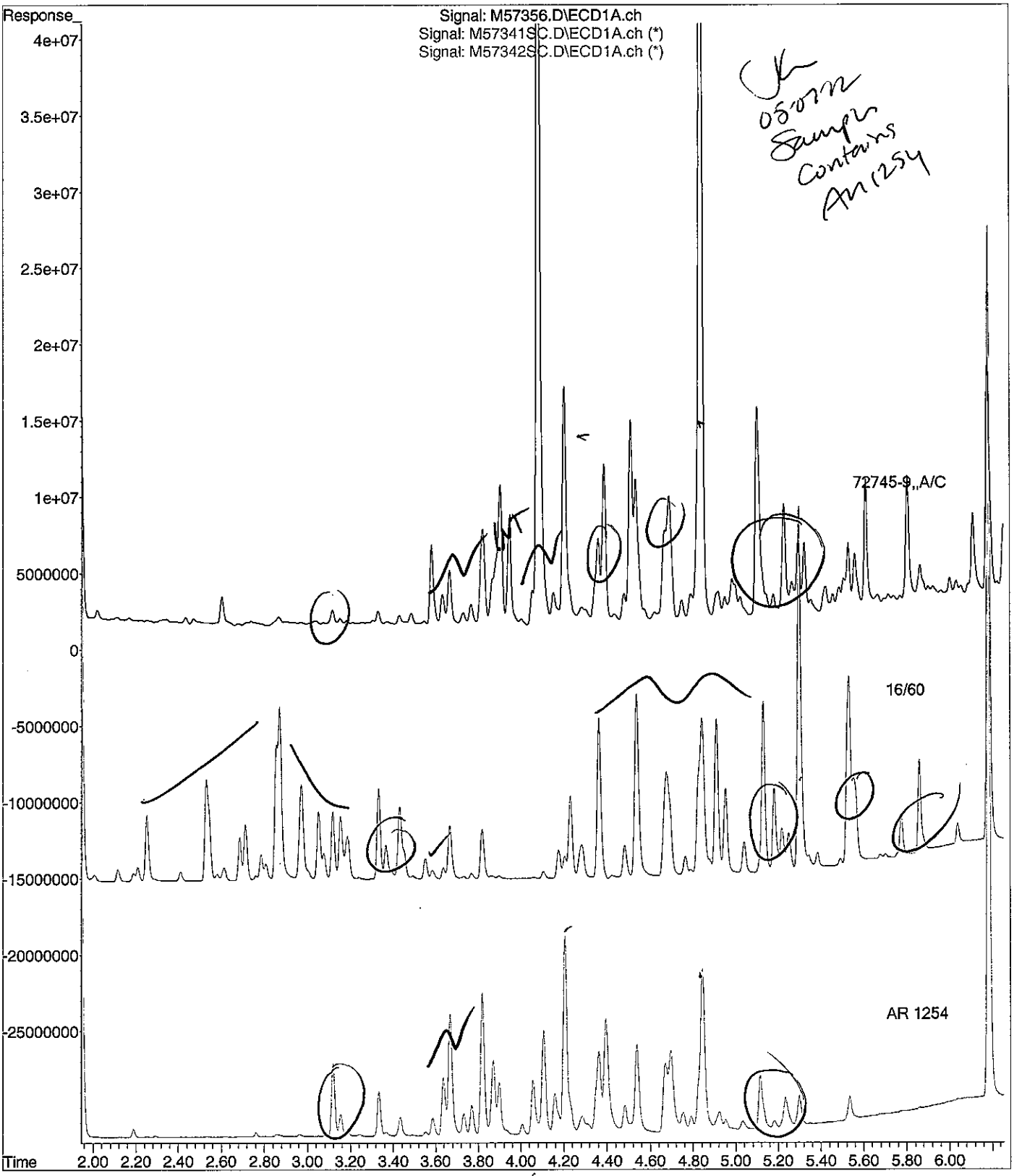
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 11:04:26 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\050412-M\M57356.D
Operator : JK
Acquired : 4 May 2012 12:24 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72745-9,,A/C
Misc Info : SOIL
Vial Number: 19



JK 050712 Sample Contains AR1254

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May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-10
Matrix:	Solid
Percent Solid:	95
Dilution Factor:	1.0
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-262

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	**356**
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	91	%
Decachlorobiphenyl	82	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72745
Sample: 72745-10,,A/C
Data File: M57357.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	356	316	11.9	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

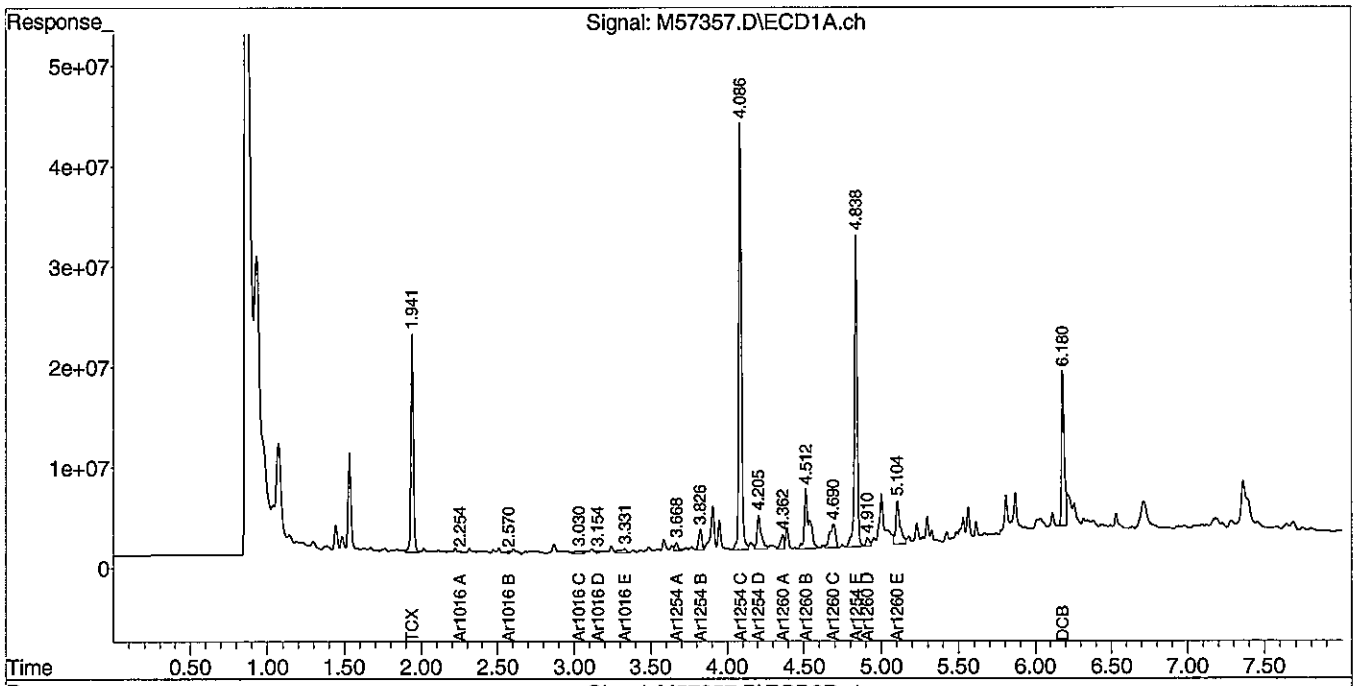
Comments: _____

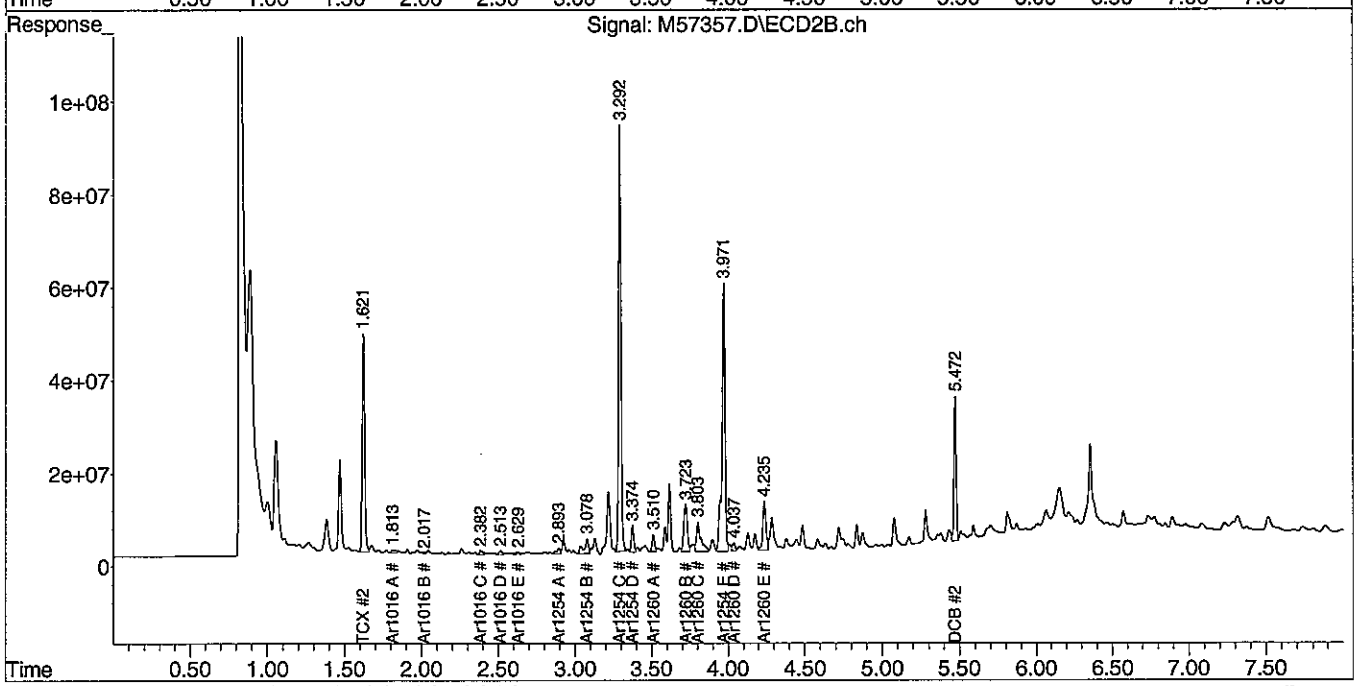
PCB FORM 10

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57357.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 12:34 pm
Operator : JK
Sample : 72745-10,,A/C
Misc : SOIL
ALS Vial : 20 Sample Multiplier: 1

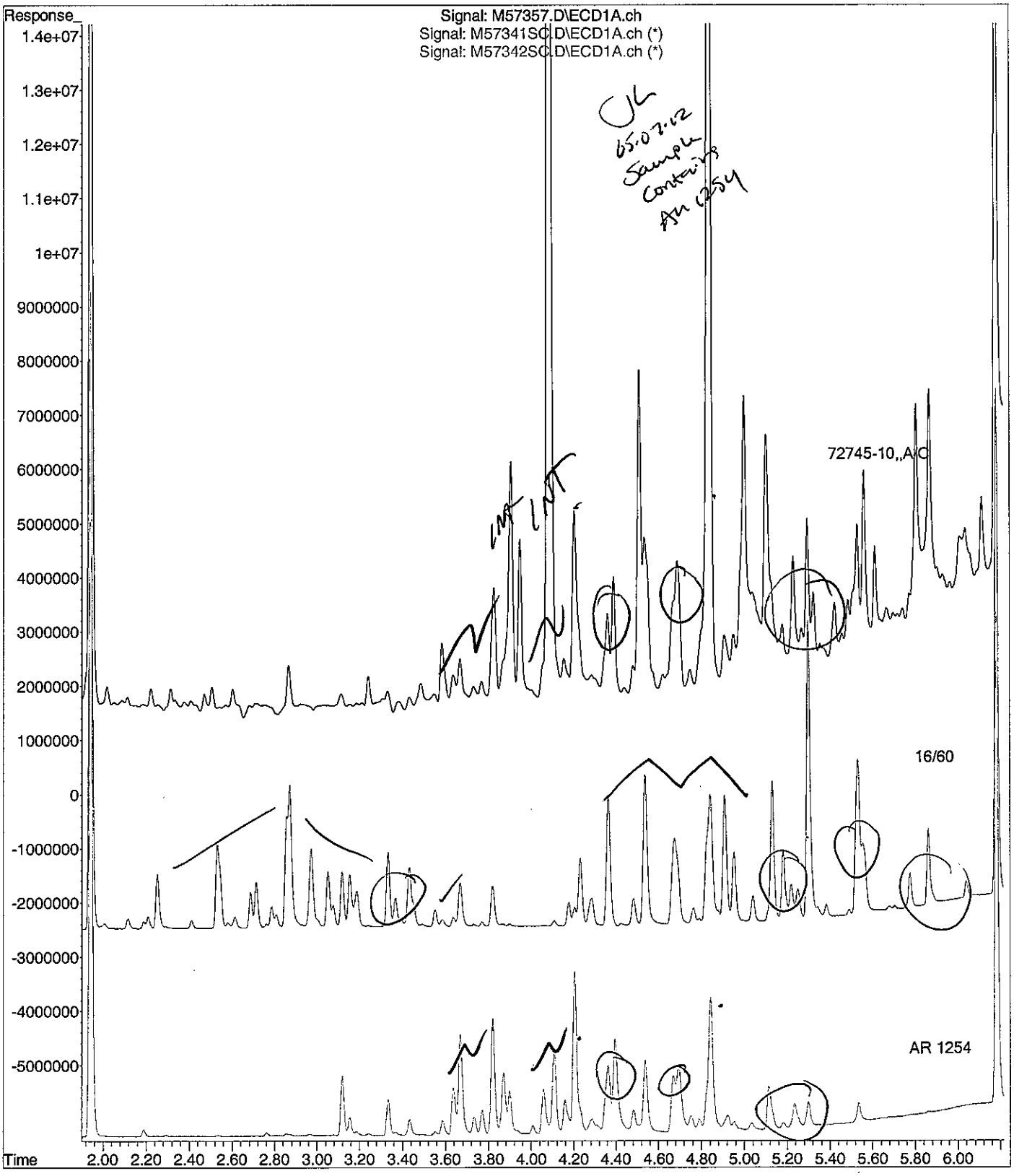
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 11:27:54 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\050412-M\M57357.D
Operator : JK
Acquired : 4 May 2012 12:34 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72745-10,,A/C
Misc Info : SOIL
Vial Number: 20



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May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-11
Matrix:	Solid
Percent Solid:	95
Dilution Factor:	1.0
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-263

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	97	%
Decachlorobiphenyl	68	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

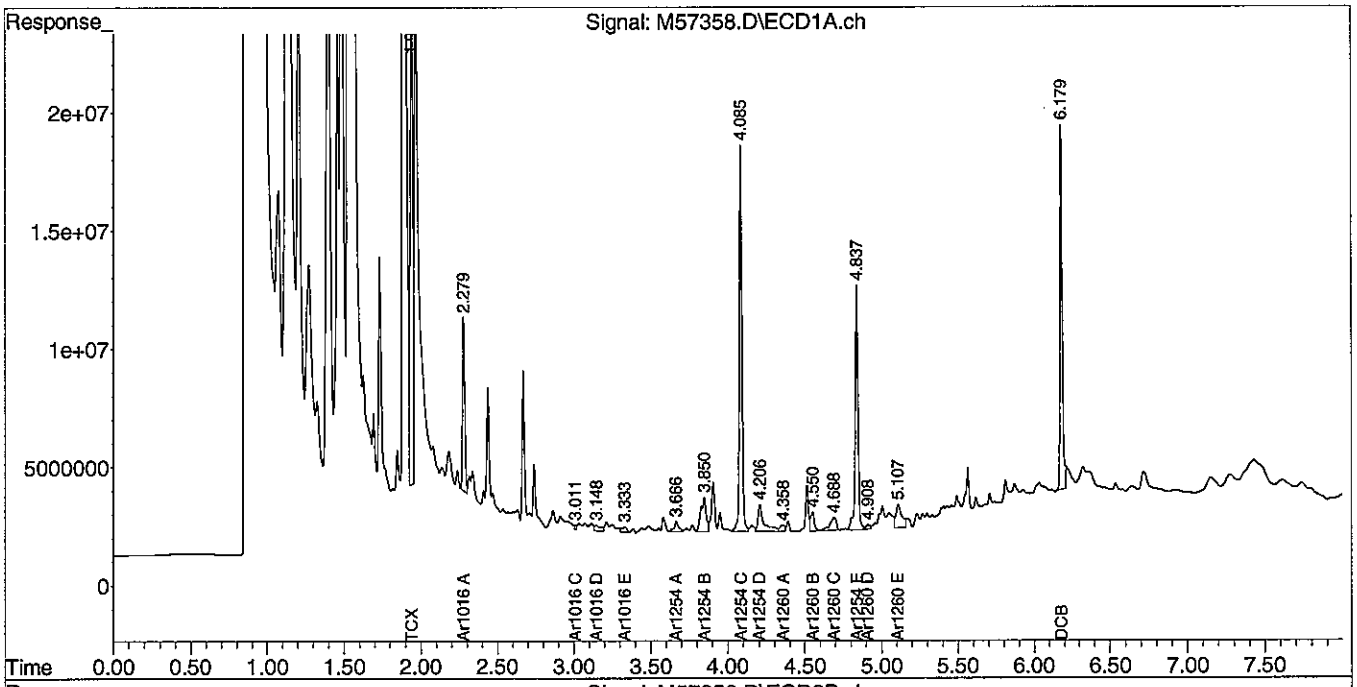
PCB Report

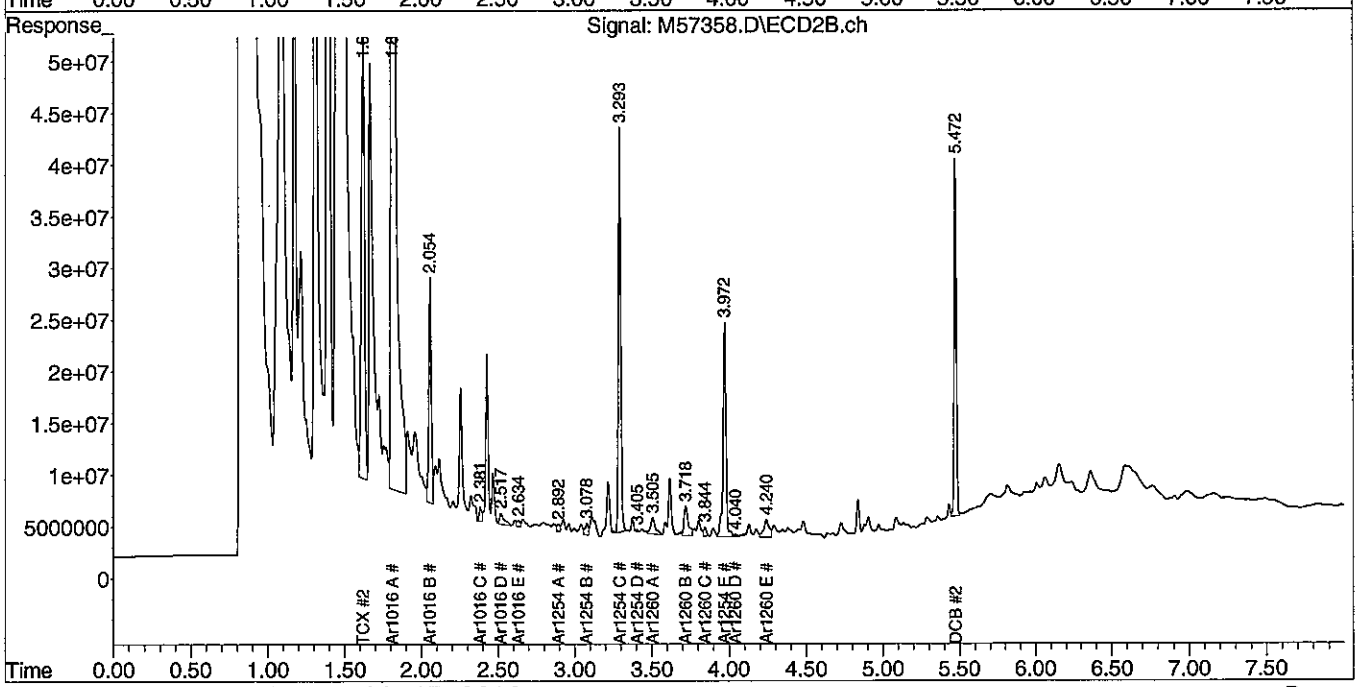
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57358.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 12:44 pm
Operator : JK
Sample : 72745-11,,A/C
Misc : SOIL
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 11:29:41 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
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Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-12
Matrix:	Solid
Percent Solid:	88
Dilution Factor:	1.1
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-264

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	**49**
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	68	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72745
Sample: 72745-12,,A/C
Data File: M57359.D
Dilution Factor: 1.1

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	49	45	8.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

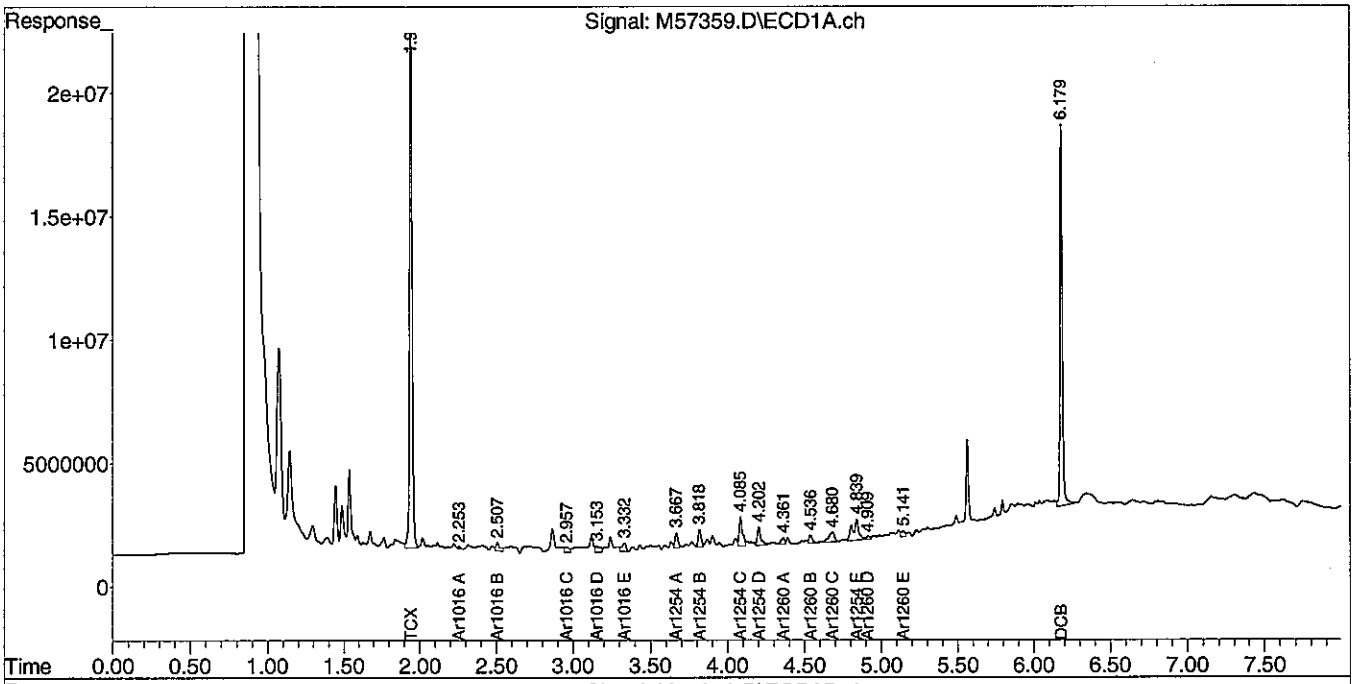
Comments: _____

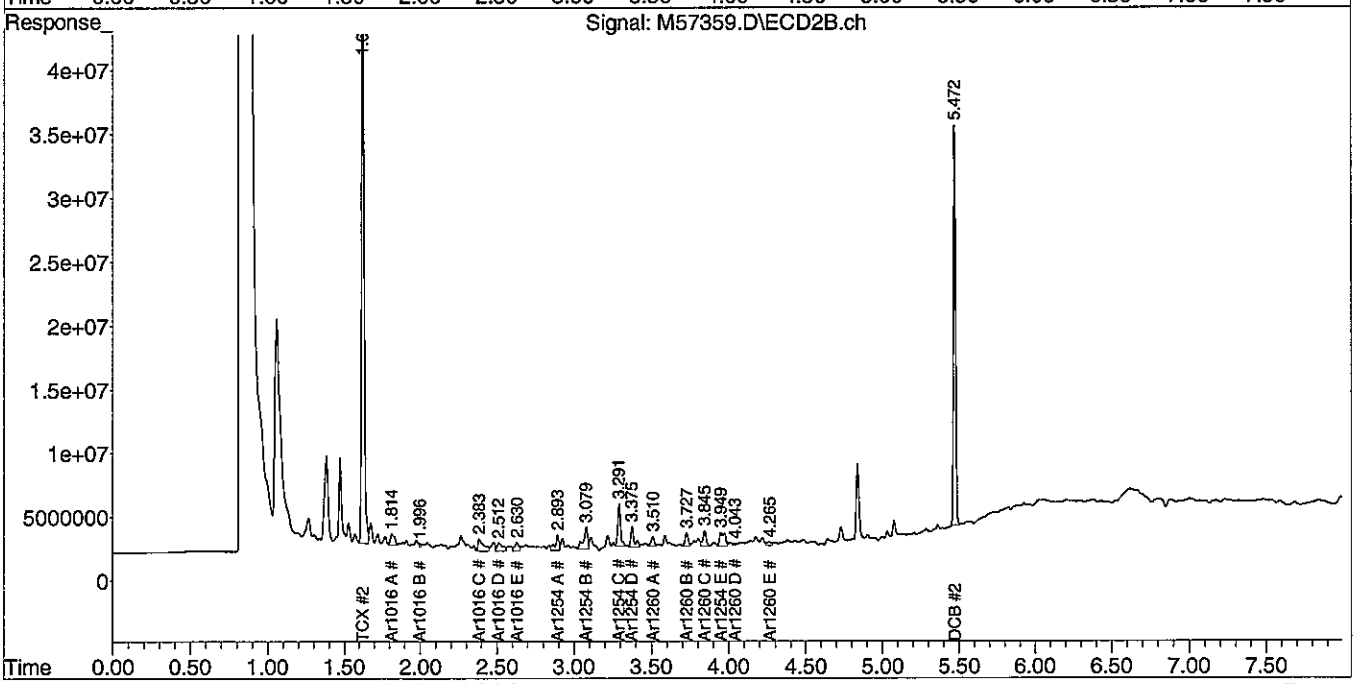
PCB FORM 10

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57359.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 12:54 pm
Operator : JK
Sample : 72745-12,,A/C
Misc : SOIL
ALS Vial : 22 Sample Multiplier: 1

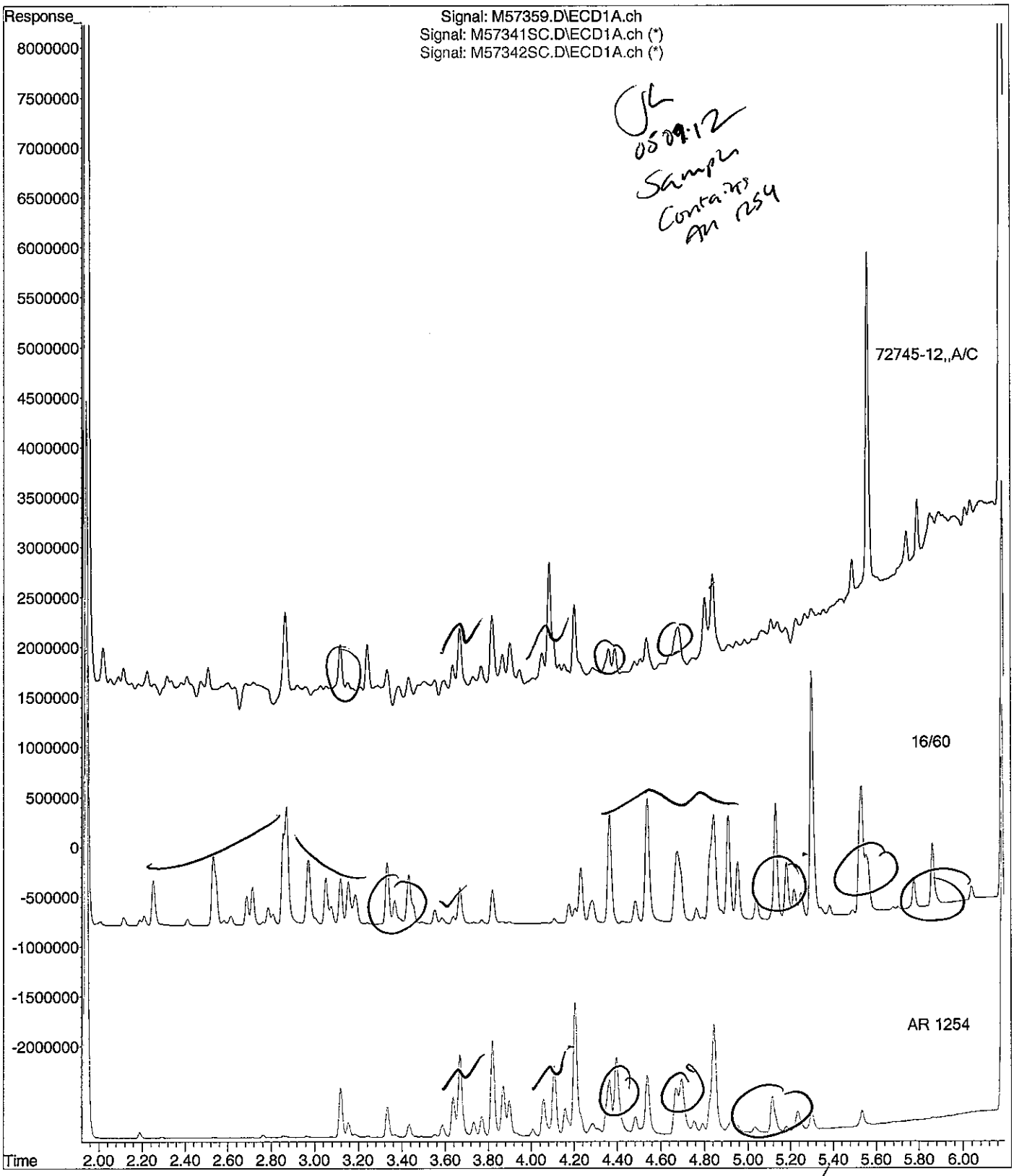
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 11:33:57 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\050412-M\M57359.D
Operator : JK
Acquired : 4 May 2012 12:54 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72745-12,,A/C
Misc Info : SOIL
Vial Number: 22



5/8/12

analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-13
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.0
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-265

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	82	%
Decachlorobiphenyl	64	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

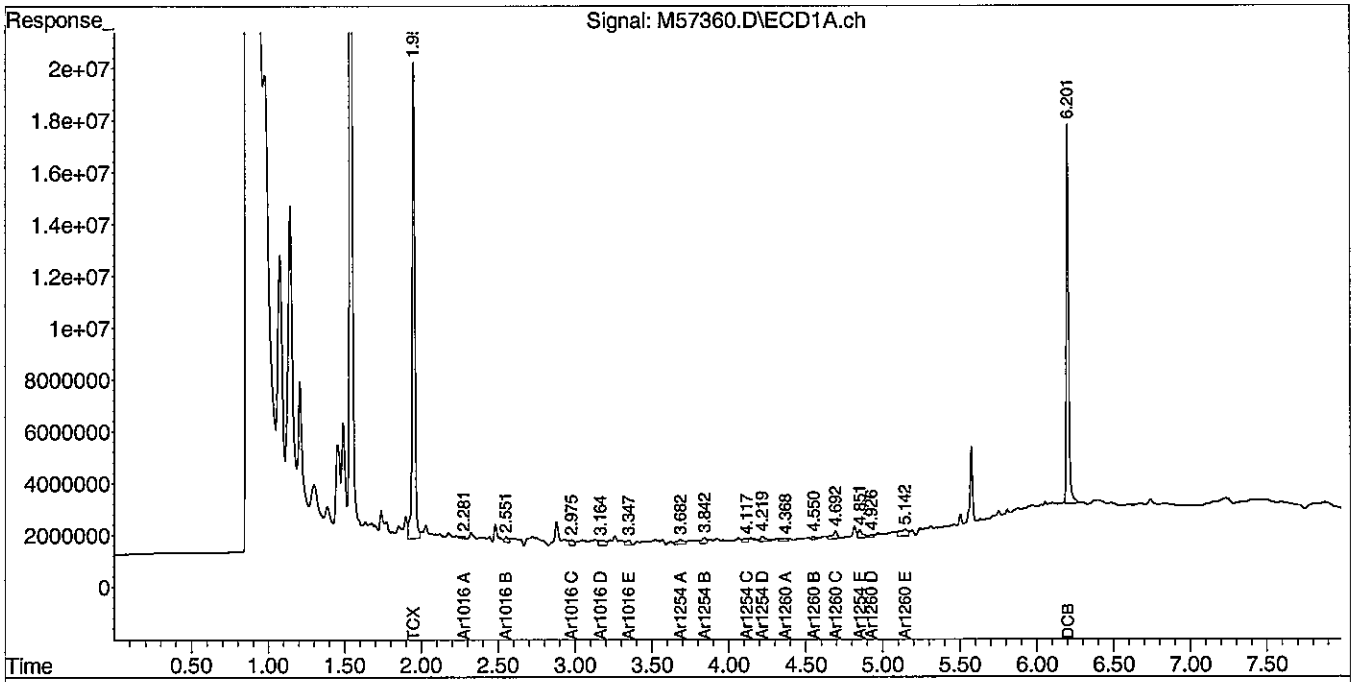
PCB Report

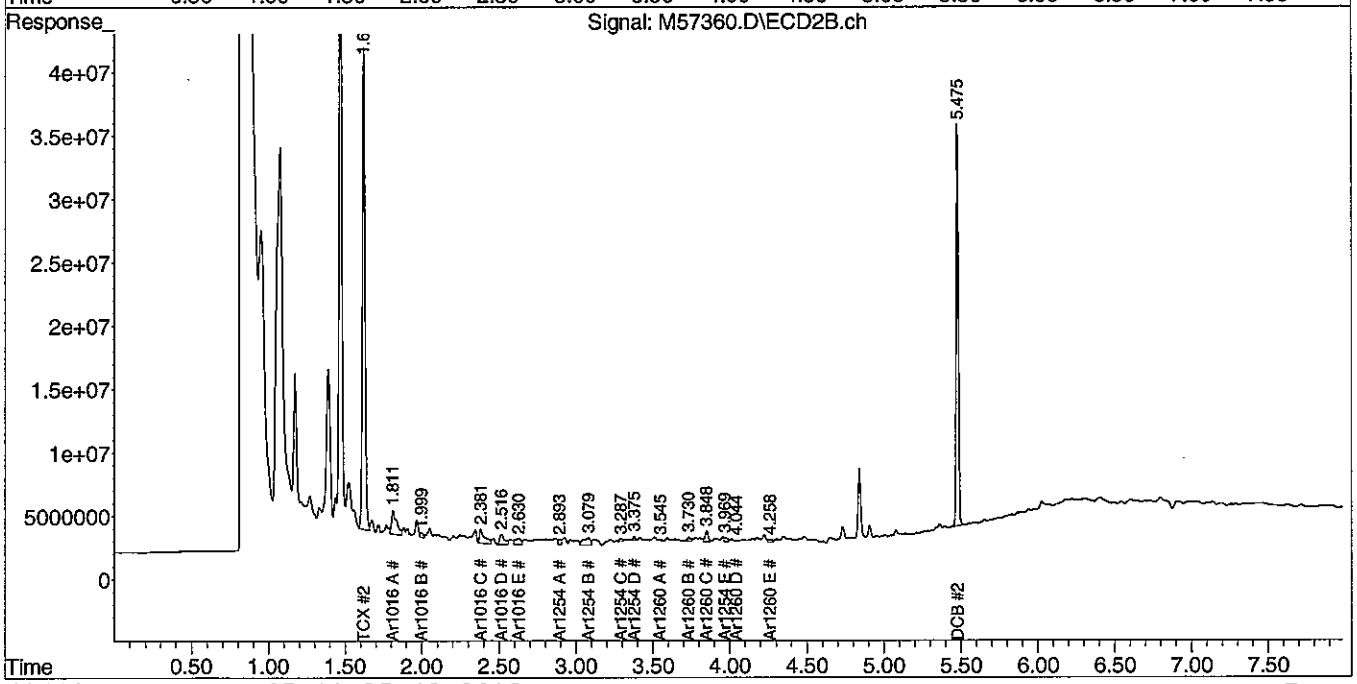
Authorized signature Angeline Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57360.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 1:22 pm
Operator : JK
Sample : 72745-13,,A/C
Misc : SOIL
ALS Vial : 23 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 11:35:36 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-14
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.0
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-266

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	94	%
Decachlorobiphenyl	69	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

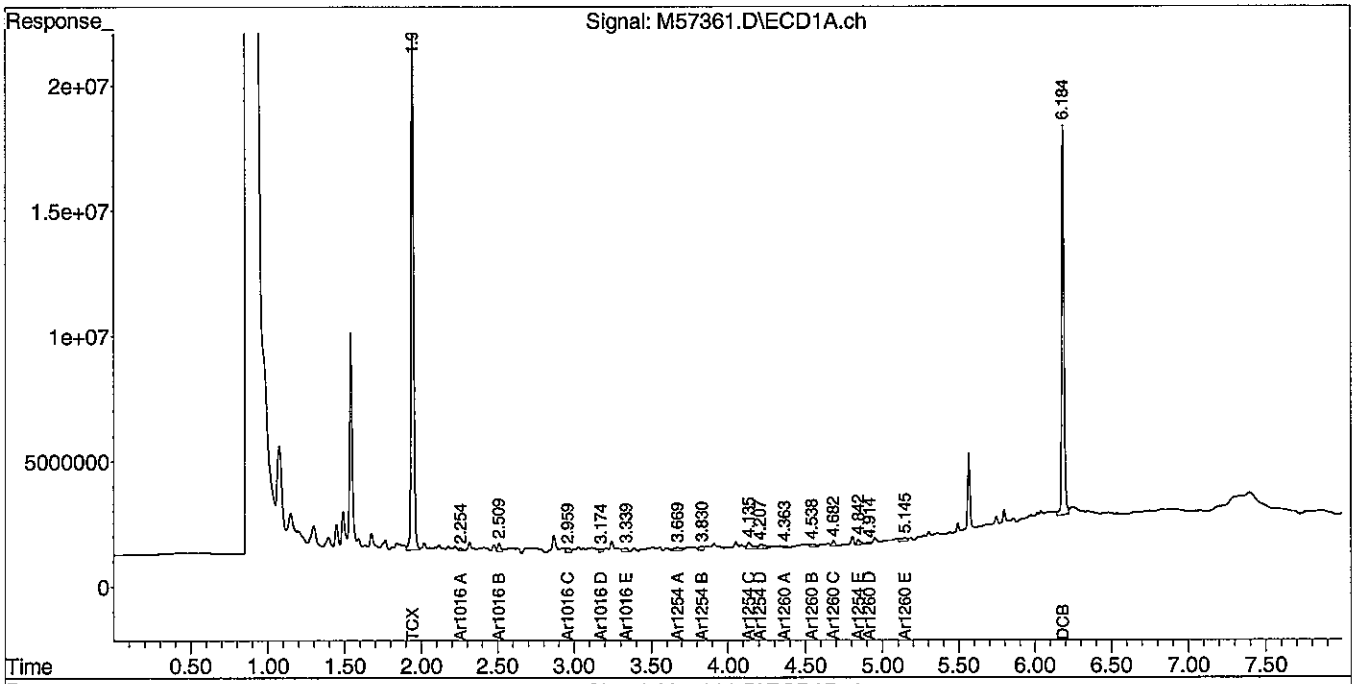
PCB Report

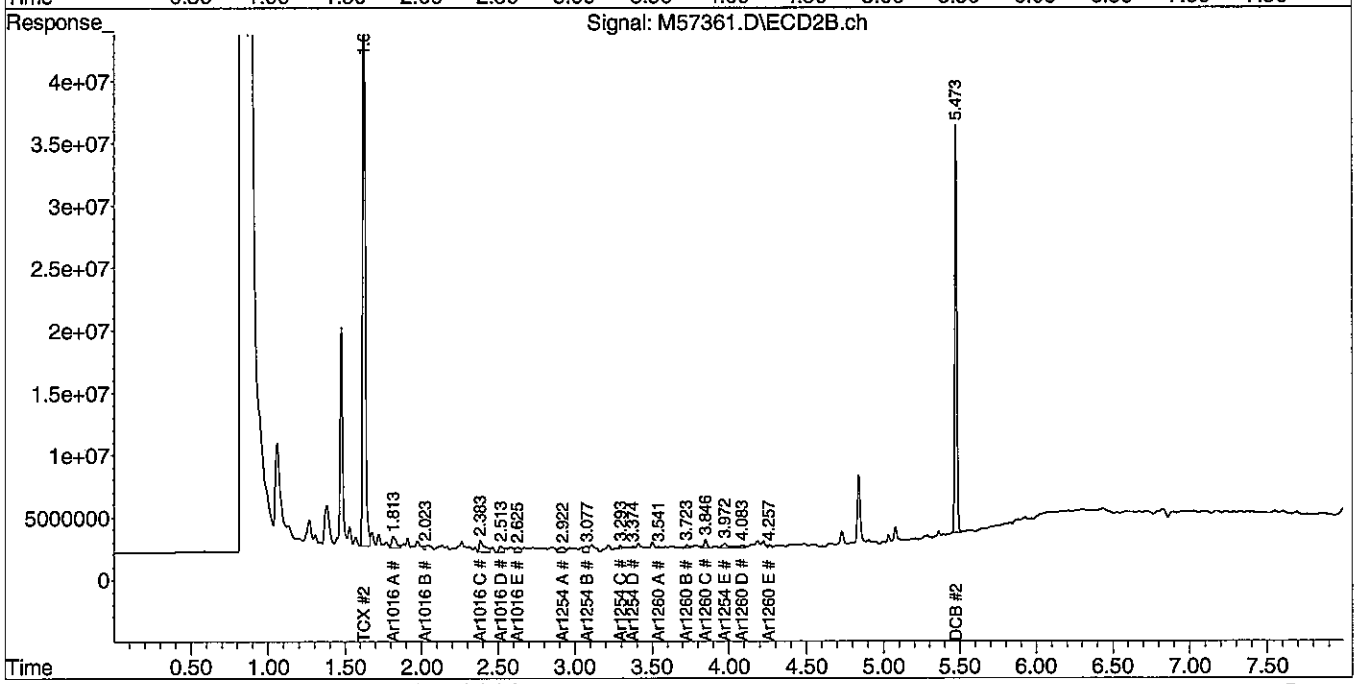
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57361.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 1:32 pm
Operator : JK
Sample : 72745-14,,A/C
Misc : SOIL
ALS Vial : 24 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 10:18:29 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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Ms. Amy Wallace
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Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-15
Matrix:	Solid
Percent Solid:	93
Dilution Factor:	1.0
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-267

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	96	%
Decachlorobiphenyl	72	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

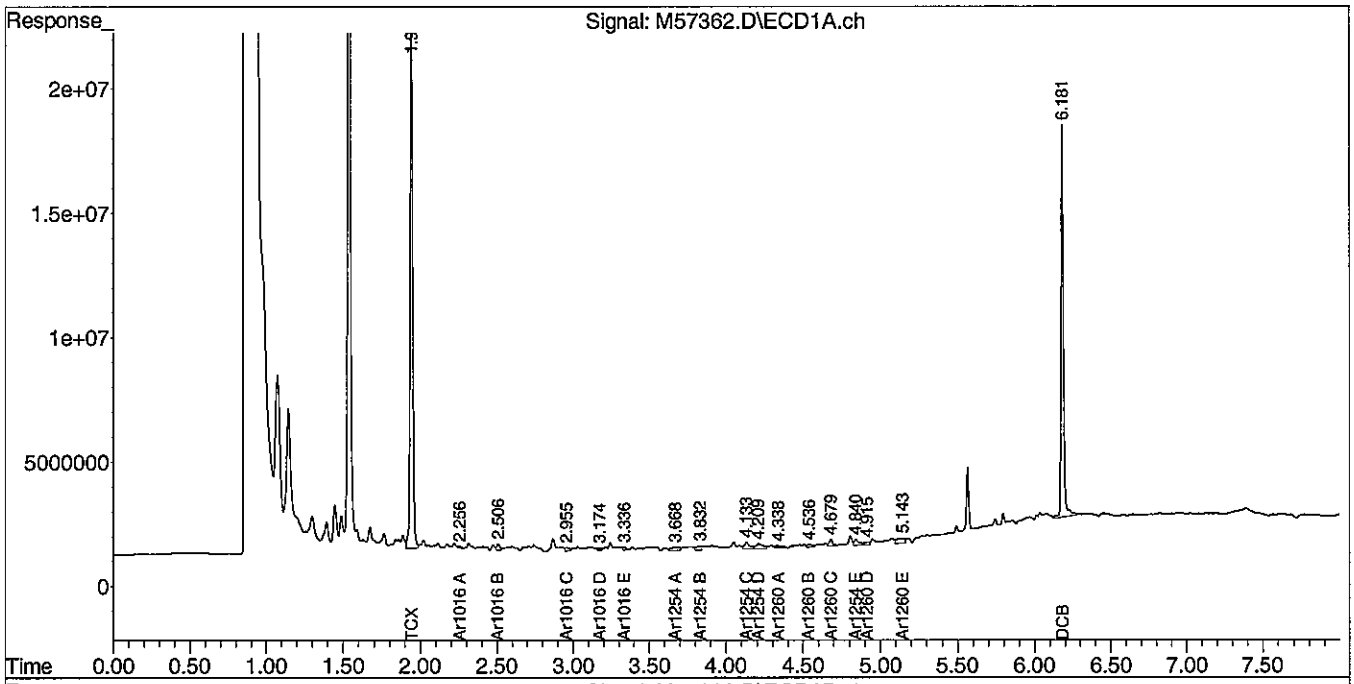
PCB Report

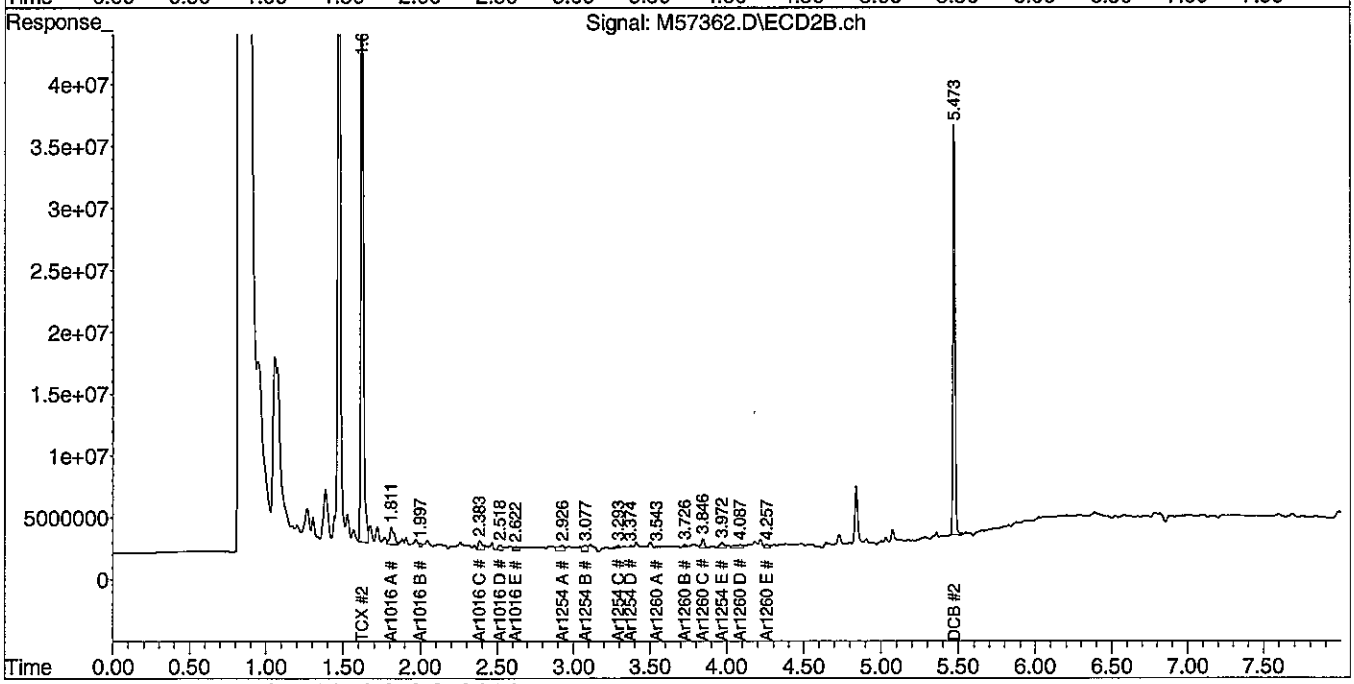
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57362.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 1:42 pm
Operator : JK
Sample : 72745-15,,A/C
Misc : SOIL
ALS Vial : 25 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 10:18:31 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 7, 2012

SAMPLE DATA

Lab Sample ID:	72745-16
Matrix:	Solid
Percent Solid:	83
Dilution Factor:	12
Collection Date:	05/01/12
Lab Receipt Date:	05/02/12
Extraction Date:	05/02/12
Analysis Date:	05/04/12

CLIENT SAMPLE ID

Project Name:	UMaine- Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-268

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	396	U
PCB-1221	396	U
PCB-1232	396	U
PCB-1242	396	U
PCB-1248	396	U
PCB-1254	396	**7830**
PCB-1260	396	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	104	%
Decachlorobiphenyl	102	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72745
Sample: 72745-16,1:10,,A/C
Data File: M57364.D
Dilution Factor: 11.8

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	7832	7757	1.0	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

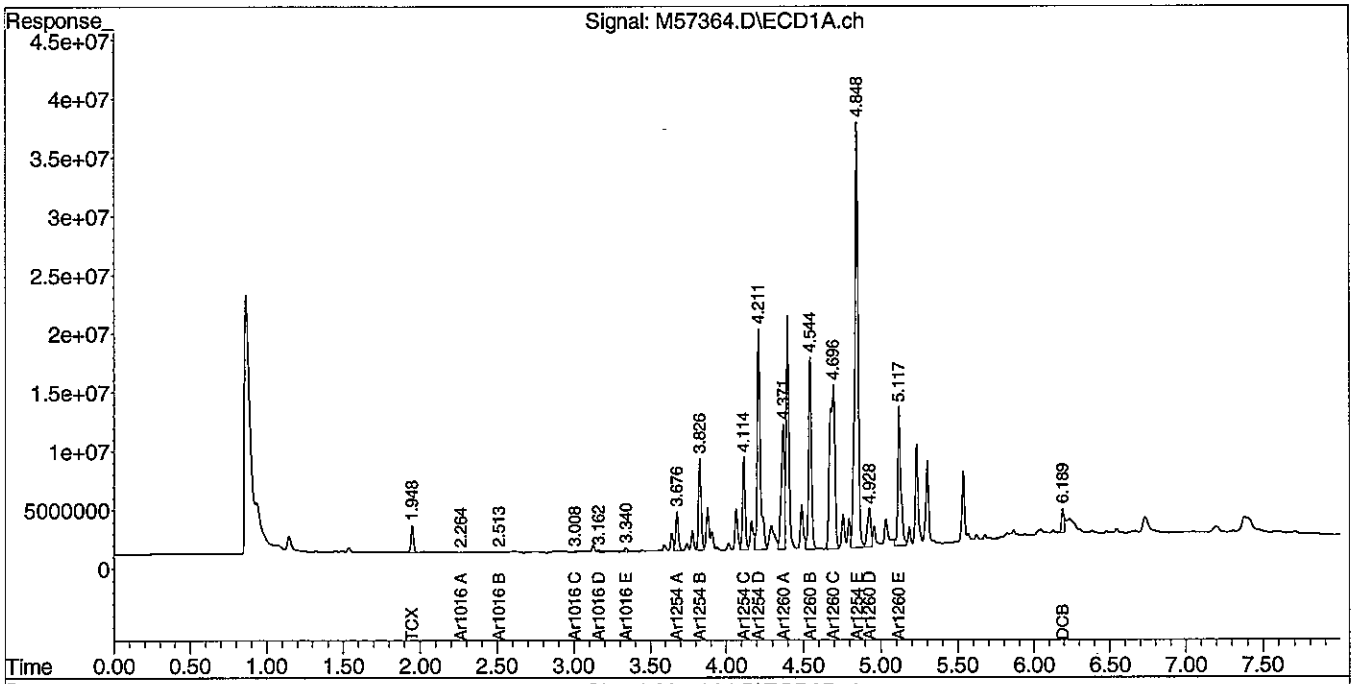
Comments: _____

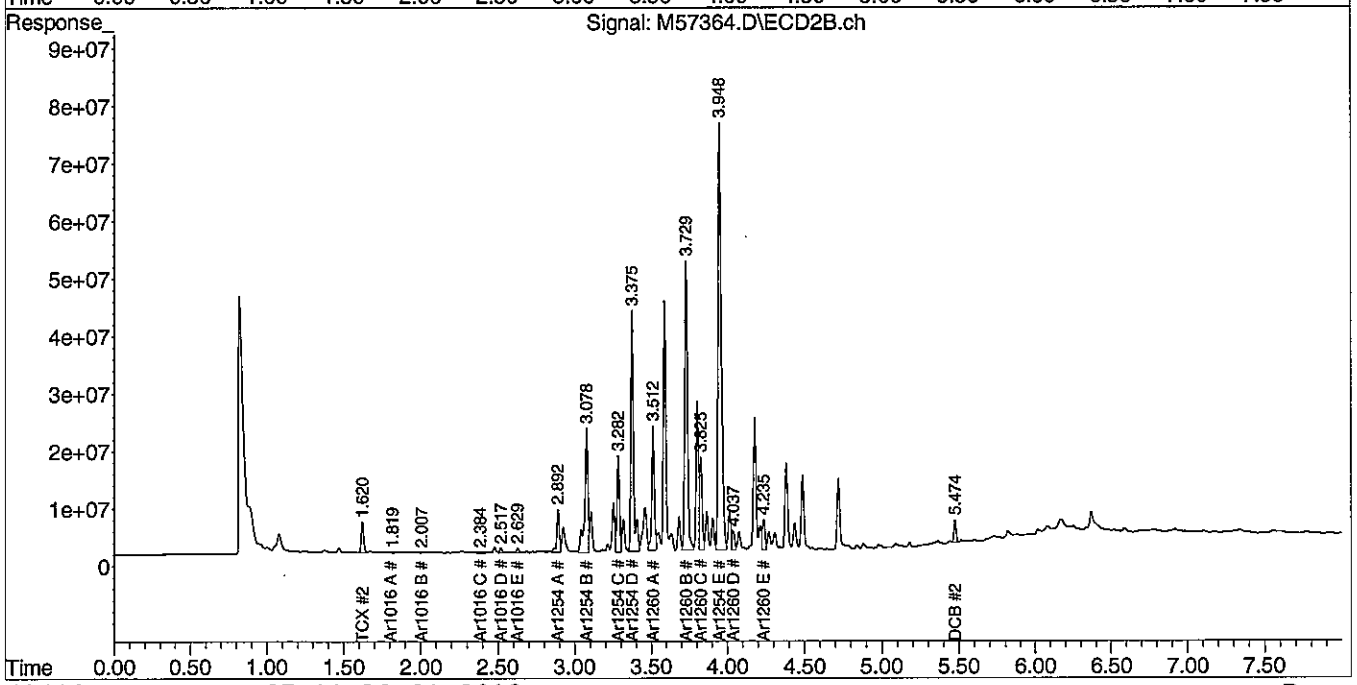
PCB FORM 10

Data Path : C:\msdchem\1\DATA\050412-M\
Data File : M57364.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 4 May 2012 2:06 pm
Operator : JK
Sample : 72745-16,1:10,,A/C
Misc : SOIL
ALS Vial : 27 Sample Multiplier: 1

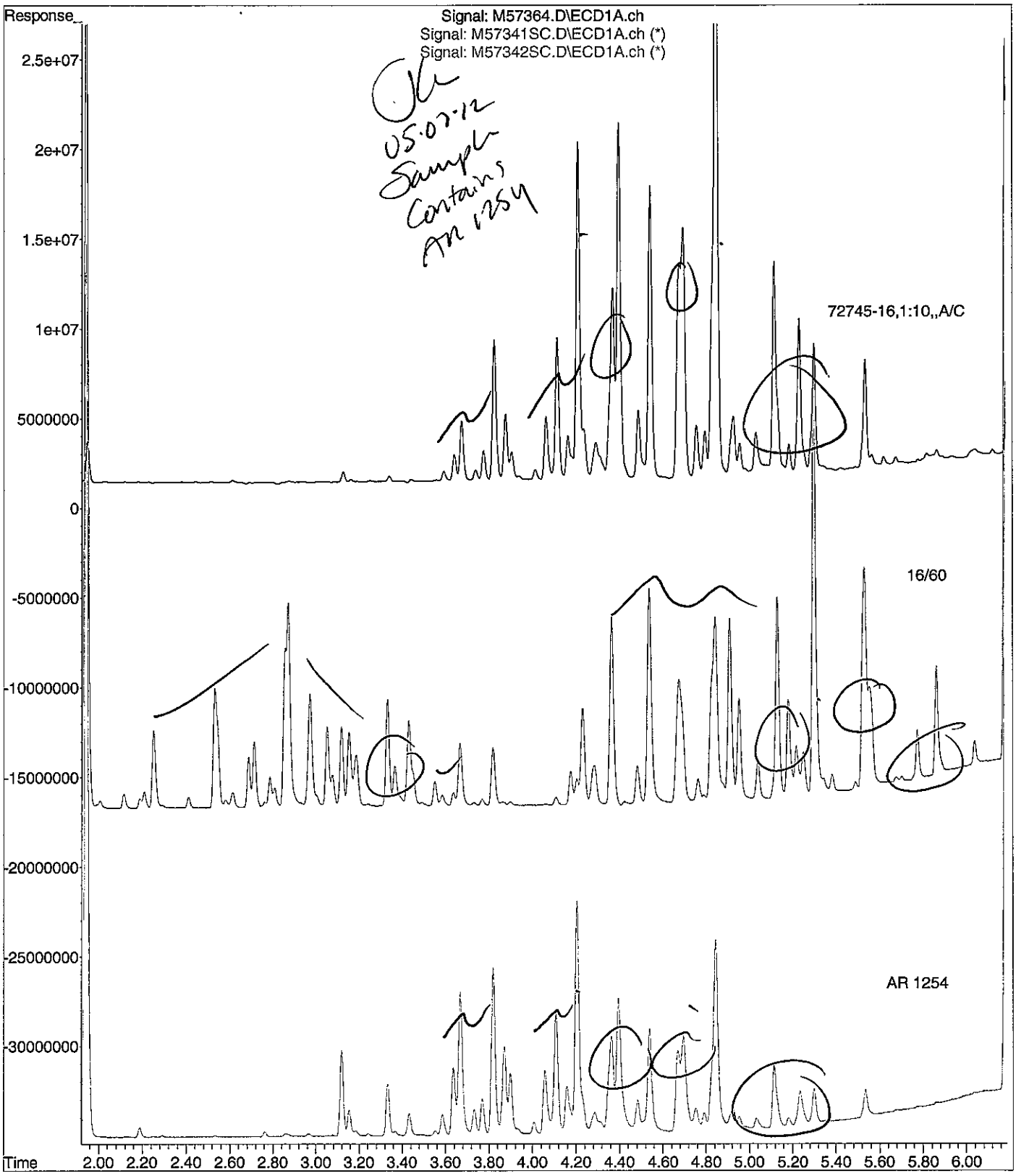
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 07 11:38:53 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon Apr 30 23:57:34 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\050412-M\M57364.D
Operator : JK
Acquired : 4 May 2012 2:06 pm using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72745-16,1:10,,A/C
Misc Info : SOIL
Vial Number: 27



analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72745

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B050212PSOX2,RR,,A/C	83		61		78		65	
L050212PSOX2,RR,,A/C	82		60		79		65	
LD050212PSOX2,RR,,A/C	89		64		84		70	
72745-1,,A/C	104		70		91		69	
72745-2,,A/C	99		66		92		66	
72745-2,MS,,A/C	100		76		85		73	
72745-2,MSD,,A/C	96		69		84		67	
72745-3,,A/C	87		64		83		61	
72745-4,,A/C	81		63		78		58	
72745-5,,A/C	85		79		76		64	
72745-6,,A/C	86		78		79		74	
72745-7,,A/C	80		68		78		58	
72745-8,,A/C	84		61		84		59	
72745-9,,A/C	98		86		83		70	
72745-10,,A/C	91		82		86		64	
72745-11,,A/C	97		68		111		68	
72745-12,,A/C	94		68		90		64	
72745-13,,A/C	82		64		75		64	
72745-14,,A/C	94		69		91		65	
72745-15,,A/C	96		72		93		66	
72745-16,1:10,,A/C	104		102		100		82	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72745

Non-spiked sample: B050212PSOX2,RR,,A/C

Spike: L050212PSOX2,RR,,A/C

Spike duplicate: LD050212PSOX2,RR,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	163	81		173	87		6.4	
PCB 1260	200	200	60	130	30	0	153	76		164	82		7.2	
PCB 1016 #2	200	200	65	140	30	0	148	74		158	79		6.5	
PCB 1260 #2	200	200	60	130	30	0	161	81		173	86		6.8	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72745

Non-spiked sample: 72745-2,,A/C

Spike: 72745-2,MS,,A/C

Spike duplicate: 72745-2,MSD,,A/C

COMPOUND	MS SPIKE ADDED (ug/kg)	MSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	231	226	65	140	30	0	200	87		198	88		0.9	
PCB 1260	231	226	60	130	30	0	203	88		202	89		0.9	
PCB 1016 #2	231	226	65	140	30	0	201	87		177	78		12.7	
PCB 1260 #2	231	226	60	130	30	0	216	93		203	90		6.0	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 3.3°
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: JWS.2.12

Project Name: UMaine-Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Circle and/or Write Required Analysis Followed by Preservation Code
Preservation Code: Please fill in preservation code here

Preservation Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VBS-253	4/30/12	14:55					B						S	1		72745-1
UMSC-VBS-254	4/30/12	15:00					B						S	1		-2
UMSC-VBS-255	4/30/12	15:05					B						S	1		-3
UMSC-VBS-256	4/30/12	15:10					B						S	1		-4
UMSC-VBS-257	5/1/12	12:05					B						S	1		-5
UMSC-VBS-258	5/1/12	12:10					B						S	1		-6
UMSC-VBS-259	5/1/12	7:05					B						S	1		-7
UMSC-VBS-260	5/1/12	7:10					B						S	1		-8
UMSC-VBS-261	5/1/12	7:15					B						S	1		-9
UMSC-VBS-262	5/1/12	7:20					B						S	1		-10

Email Results to:
awallace@woodardcurran.com

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [x] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard: _____ (eg. S-1 or GW-1)

EDD Required: Y** N

Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: Charlie Smith	Date: 5/1/12	Time: 19:00	Received By: General Courier.	
Relinquished By: General Courier	Date: 5/2/12	Time: 8:00	Received By: Gemma Jenny	
Relinquished By:	Date:	Time:	Received By:	

Page ___ of ___

Chain Of Custody Form

analytics environmental laboratory LLC
195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 3.3°C
3) Received in good condition: Y or N
4) pH checked by: NA
5) Labels checked by: JW 5.2.12

Project Name: UMaine-Stewart Commons
Project#: ~~120~~ 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code: Please fill in preservation code here: B

Preseravtion Key: A= HCL, B= 4°C, C= Unpres, D = MeOH, E = HNO3, F = H2SO4, G = Hexane, H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Matrix Key: C = Concrete, WP = Wipe, WW = Wastewater, SW = Surface Water, E = Extract, GW = Groundwater, DW = Drinking Water, S = Soil / Sludge, O = Oil, X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VBS-263	5/1/12	7:25					B							S	1		72745-11
UMSC-VBS-264	5/1/12	11:50					B							S	1		-12
UMSC-VBS-265	5/1/12	11:55					B							S	1		-13
UMSC-VBS-266	5/1/12	12:00					B							S	1		-14
UMSC-VBS-267	5/1/12	13:25					B							S	1		-15
UMSC-VBS-268	5/1/12	13:35					B							S	1		-16

Email Results to: awallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions: ** List requested metals here

Turnaround Time (TAT): ☐ 24 Hours* ☐ 48 Hours* ☐ 72 Hours* ☒ 5 Days* ☐ 10 Days
*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements: *Fee may apply

Report Type: ☐ MCP* ☒ Level II* ☐ CTRCP* ☐ Level III* ☐ DOD* ☐ Level IV* ☐ Standard

State: ☐ NH ☐ MA ☒ ME ☐ CT ☐ RI Other:

State Standard: (eg. S-1 or GW-1)

EDD Required: Y* N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: [signature]	Date: 5/1/12	Time: 19:00	Received By: General Courier
Relinquished By: General Courier	Date: 5/2/12	Time: 8:00	Received By: Jemma Jenis
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72745 COOLER NUMBER: 159

CLIENT: Woodard & Curran NUMBER OF COOLERS: 1

PROJECT: Maine Stewart Commons

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): JLL DATE COOLER RECEIVED/OPENED: 5/2/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: 392121

4. Were custody seals on the outside of cooler? Y N
How many & where: ~~None~~ 1 on lid Seal Date: none Seal Name: none

5. Did the custody seals arrive unbroken and intact upon arrival? Y N
KB 5/2/12

6. COC#: —

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 3.3°C

B. Log-In: Date samples were logged in: 5/2/12 By: KB

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y ~~N/A~~

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were VOA samples absent of greater than pea-sized bubbles? Y N*/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): JL Date: 5.2.12

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST\Edit 4908 Rev. 4, 12/21/11

Insured Delivery

P.O. Box 1072
Portland, ME 04104

385 Main Street
So. Portland, ME 04106
1-800-698-5035
767-6004
FAX: 767-7159
E-mail: generalc@maine.rr.com

General Courier

Portland's Only Total Courier Service!

№ 392121

*When you **need** it there,*
*we **get** it there,*
guaranteed!!

Job #:	Driver:	Route:	Date:
	WD#6	O/N	5-1-12

FROM	SHIP TO
Charles Smith	ANALITICAL LABS
408 N Main St	175 COMMERCE WAY
Brewer	PORTSMOUTH NH

BILLING INFORMATION

DELIVER BY 0830 AM

QUANTITY	DESCRIPTION	PRICE
1 Cooler		

Signature	Time
Gemma Lenig	8:00 am

TAMPER RESISTANT

TAMPER RESISTANT

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

May 15, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72806
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
No exceptions.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Surrogate 2,4,5,6-Tetrachloro-m-xylene could not be determined due to interference. Results are reported with a comment to that affect.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72806

Revision: Rev. 0

Re: UMaine-Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 09 May 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
72806-1	05/08/12	UMSC-VWG-269	EPA 8082 (PCBs only)	
72806-2	05/08/12	UMSC-VWG-270	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: None

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 5/15/2012

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analytics environmental laboratory LLC

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 14, 2012

SAMPLE DATA

Lab Sample ID: B051012PSOX RR
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 05/10/12
Analysis Date: 05/12/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	98	%
Decachlorobiphenyl	85	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

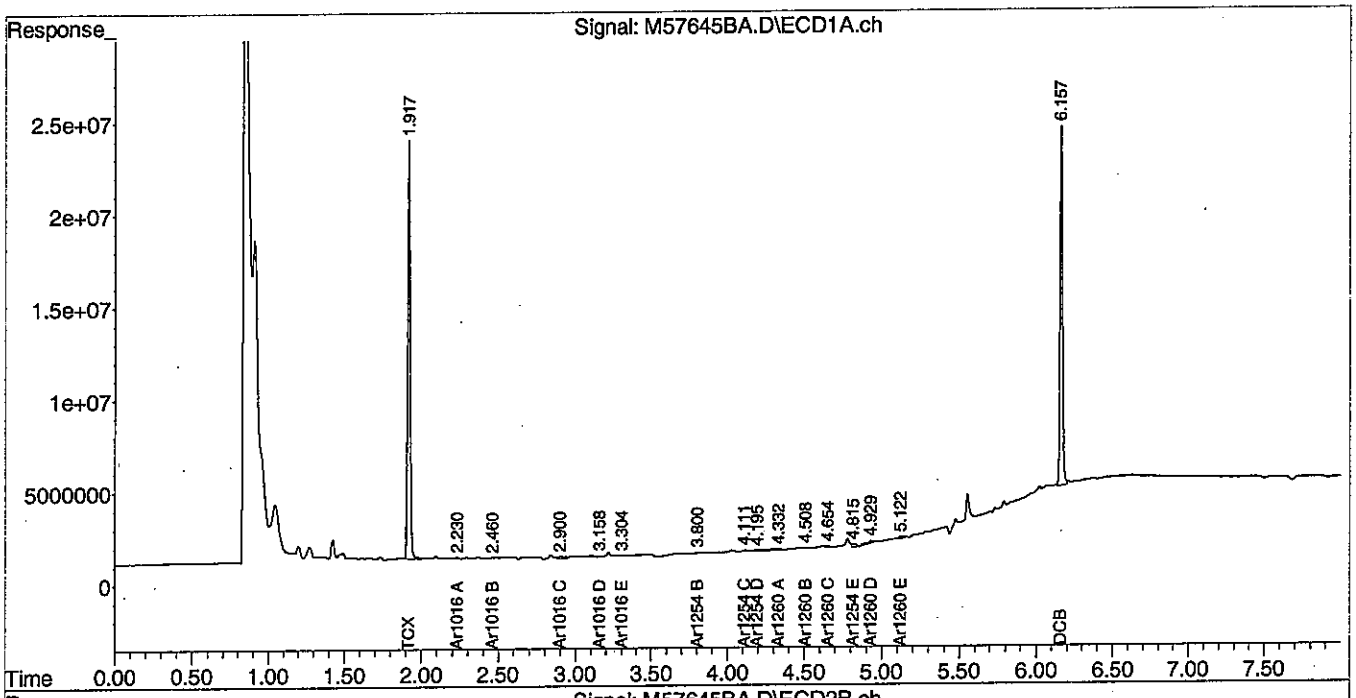
PCB Report

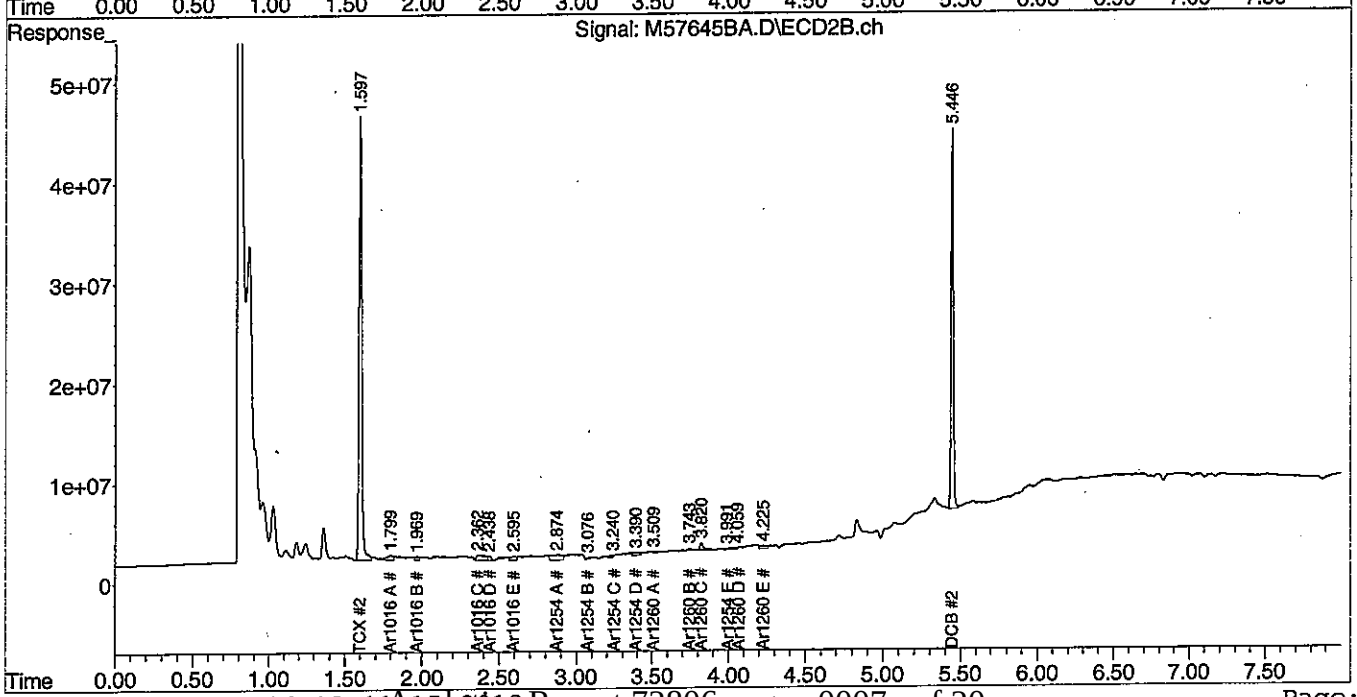
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\051212-M\
Data File : M57645BA.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2012 7:52 am
Operator : AR
Sample : B051012PSOX,,RR4 A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 14 12:11:08 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon May 14 12:08:24 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 14, 2012

SAMPLE DATA

Lab Sample ID:	72806-1
Matrix:	Wipe
Percent Solid:	N/A
Dilution Factor:	1.0
Collection Date:	05/08/12
Lab Receipt Date:	05/09/12
Extraction Date:	05/10/12
Analysis Date:	05/12/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VWG-269

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	**0.8**
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	79	%
Decachlorobiphenyl	63	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS:

PCB Report

Authorized signature Angelina Richard

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72806
Sample: 72806-1,,A/C
Data File: M57650.D
Dilution Factor: 1.0

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/wipe)	SAMPLE RESULT (ug/wipe)	RPD	#
PCB 1254	0.8	0.8	3.3	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

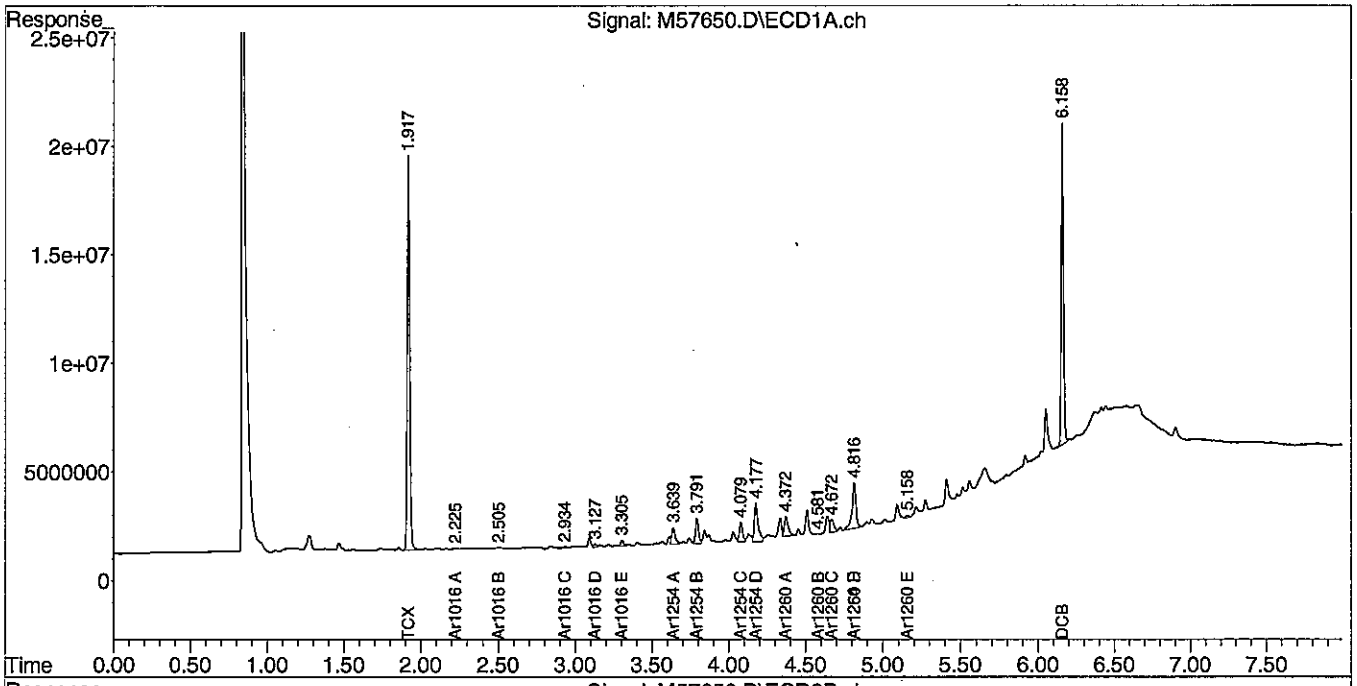
Comments: _____

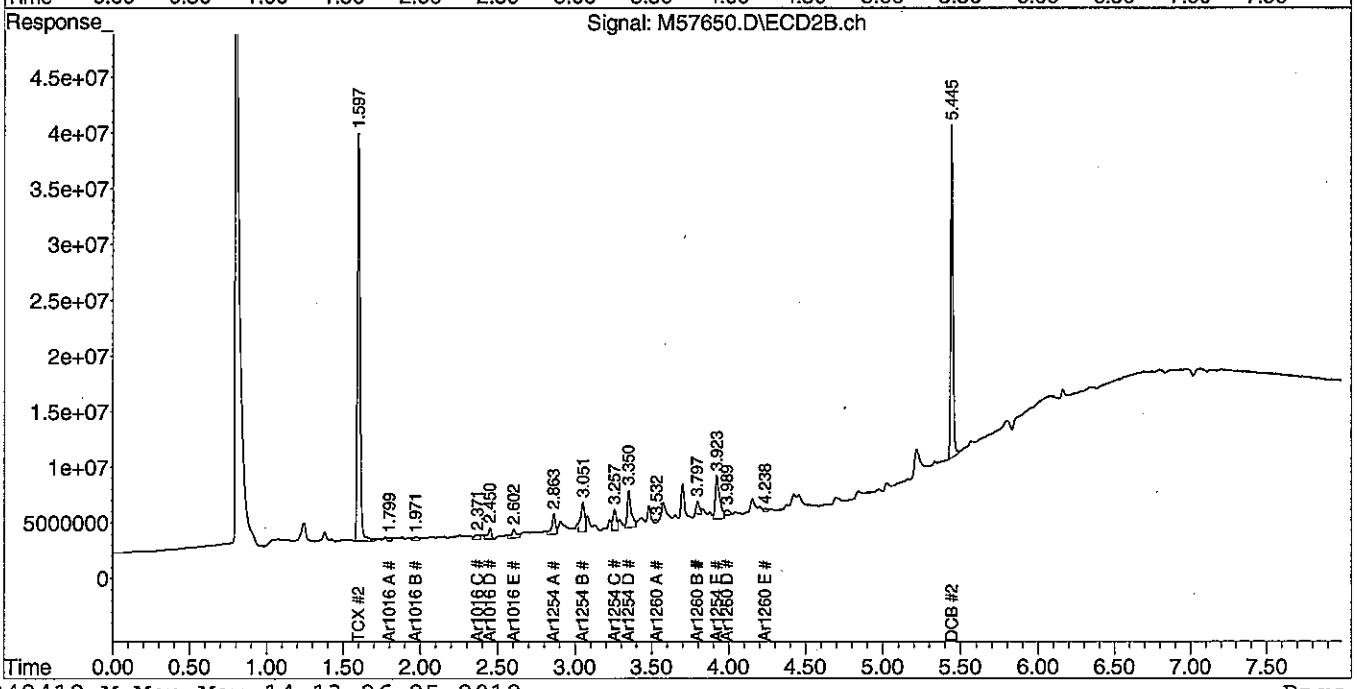
PCB FORM 10

Data Path : C:\msdchem\1\DATA\051212-M\
Data File : M57650.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2012 9:14 am
Operator : AR
Sample : 72806-1,,A/C
Misc : SOIL
ALS Vial : 20 Sample Multiplier: 1

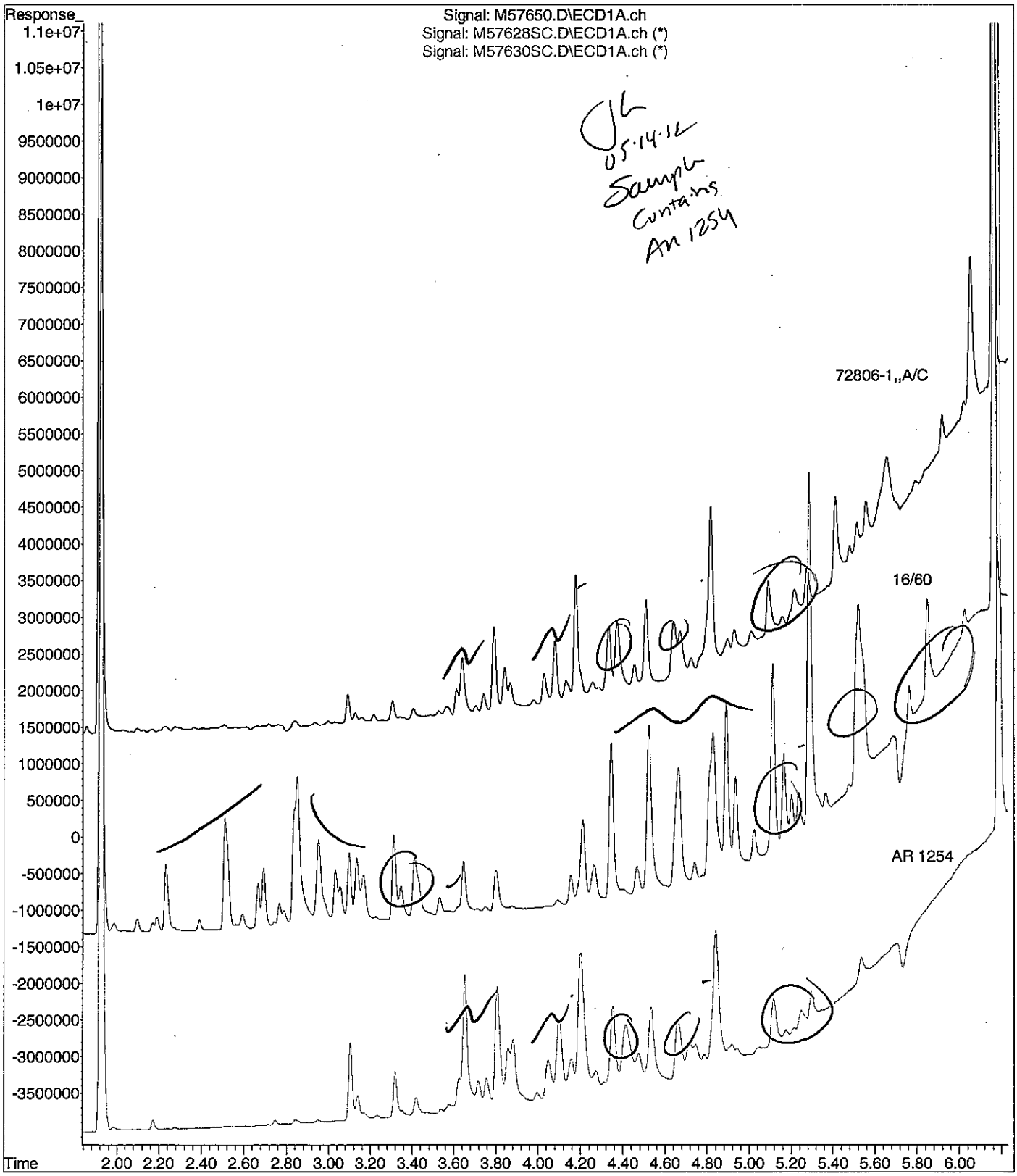
Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 14 13:26:15 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon May 14 13:25:04 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





File :C:\msdchem\1\DATA\051212-M\M57650.D
Operator : AR
Acquired : 12 May 2012 9:14 am using AcqMethod PCB.M
Instrument : Instrument M
Sample Name: 72806-1,,A/C
Misc Info : SOIL
Vial Number: 20



analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 14, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: UMSC-VWG-270

Lab Sample ID: 72806-2
Matrix: Wipe
Percent Solid: N/A
Dilution Factor: 1.0
Collection Date: 05/08/12
Lab Receipt Date: 05/09/12
Extraction Date: 05/10/12
Analysis Date: 05/12/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/wipe	Results µg/wipe
PCB-1016	0.5	U
PCB-1221	0.5	U
PCB-1232	0.5	U
PCB-1242	0.5	U
PCB-1248	0.5	U
PCB-1254	0.5	U
PCB-1260	0.5	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	I*	%
Decachlorobiphenyl	114	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: I=Unable to read surrogate results due to interference.

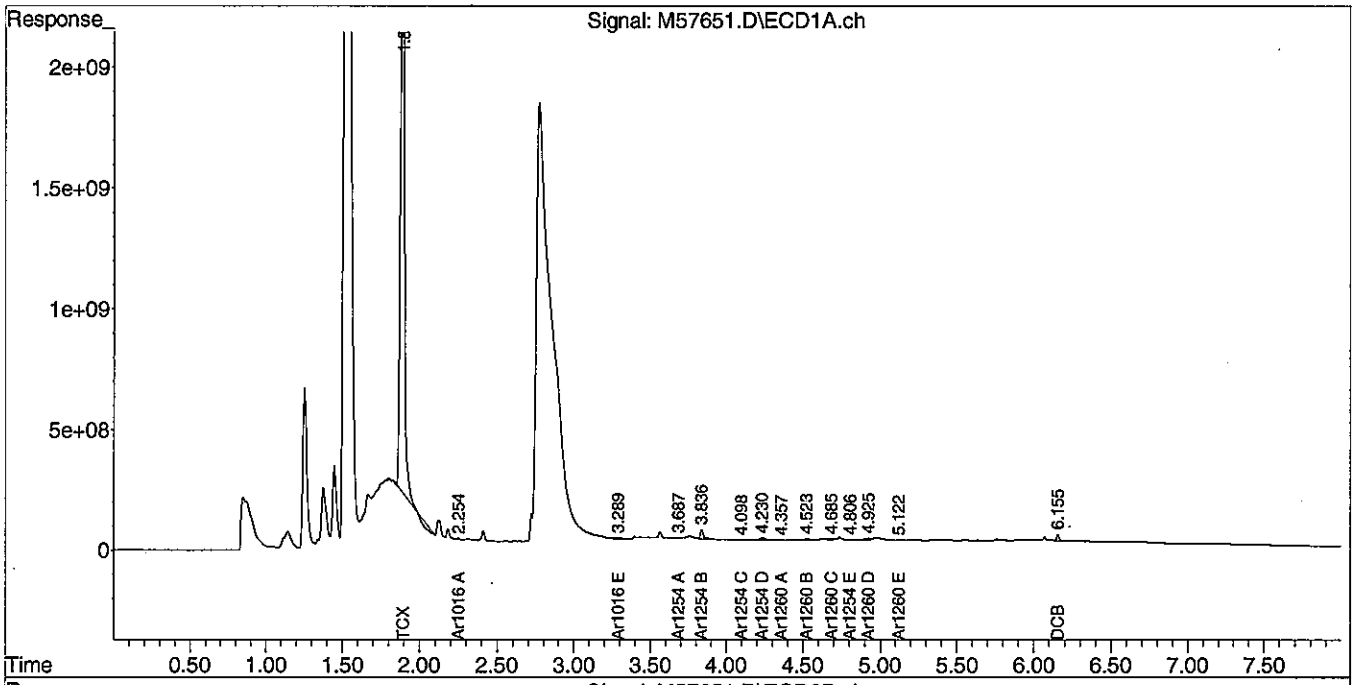
PCB Report

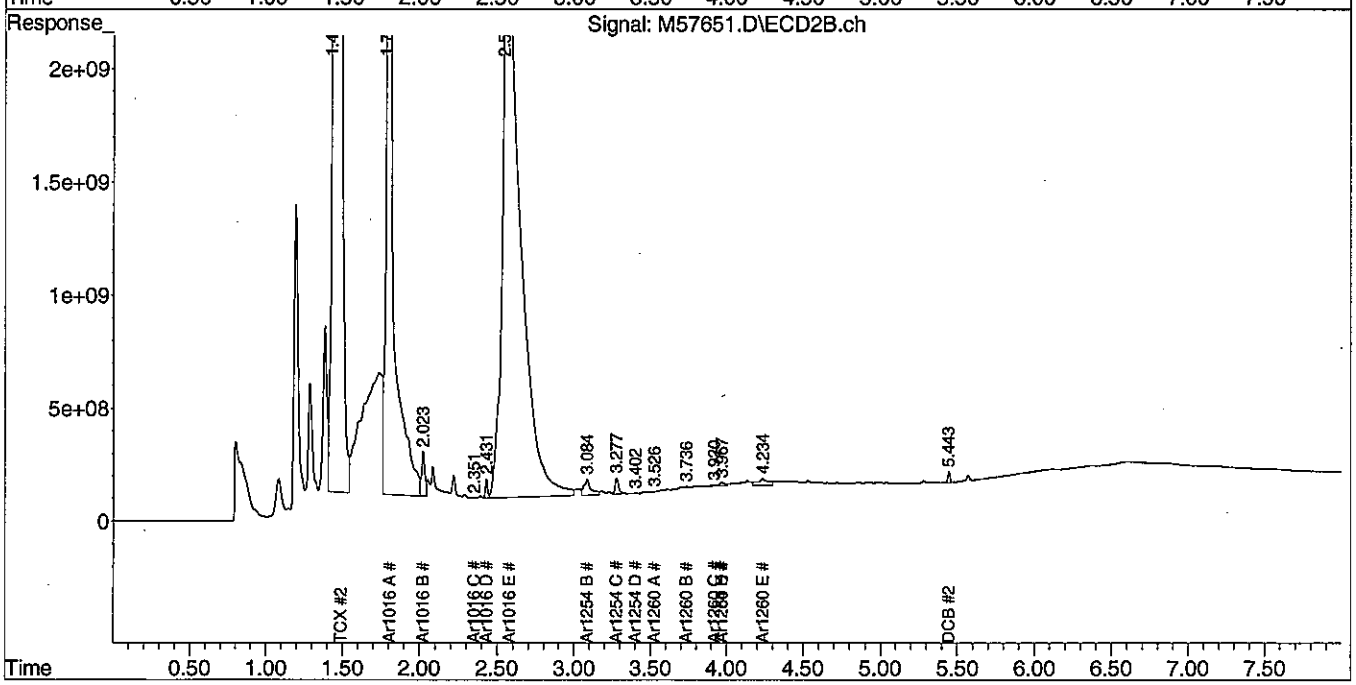
Authorized signature Angelina Richard

Data Path : C:\msdchem\1\DATA\051212-M\
Data File : M57651.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 12 May 2012 9:24 am
Operator : AR
Sample : 72806-2,,A/C
Misc : SOIL
ALS Vial : 21 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 14 13:31:04 2012
Quant Method : C:\msdchem\1\METHODS\PCB042412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Mon May 14 12:08:25 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB WIPE
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72806

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B051012PSOX,,RR4 A/C	98		85		93		81	
L051012PSOXW,,A/C	83		76		65		74	
LD051012PSOXW,,A/C	96		78		85		81	
72806-1,,A/C	79		63		76		65	
72806-2,,A/C	I		114		I		95	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB WIPE
LABORATORY CONTROL/LABORATORY CONTROL DUPLICATE
PERCENT RECOVERY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72806
Non-spiked sample: B051012PSOX,,RR4 A/C
Spike: L051012PSOXW,,A/C
Spike duplicate: LD051012PSOXW,,A/C

COMPOUND	LCS SPIKE ADDED (ug/wipe)	LCSD SPIKE ADDED (ug/wipe)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/wipe)	SPIKE RESULT (ug/wipe)	SPIKE % REC	#	SPIKE DUP RESULT (ug/wipe)	SPIKE DUP % REC	#	RPD	#
PCB 1016	2.0	2.0	65	140	30	0.0	1.7	86		1.9	97		12.0	
PCB 1260	2.0	2.0	60	130	30	0.0	1.9	93		2.0	101		9.2	
PCB 1016 #2	2.0	2.0	65	140	30	0.0	1.7	83		2.0	99		17.7	
PCB 1260 #2	2.0	2.0	60	130	30	0.0	1.9	96		2.1	103		7.3	

Column to be used to flag recovery and RPD values outside of QC limits
* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.
Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments:

PCB FORM 3

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC
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Portsmouth, NH 03801
(800) 929-9906
(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only
Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 2.3°
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: YB 5/9/12

Project Name: UMaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:
Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code
Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608	Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VWG-269	5/8/12	10:45					G							WP	1		72806 - 1
UMSC-VWG-270	5/8/12	11:25					G							WP	1		2

Email Results to:
aWallace@woodardcurran.com

Turnaround Time (TAT)
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☒ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions:
** List requested metals here

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH
☐ MA
☒ ME
☐ CT
☐ RI
Other:

State Standard:
(eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:		Date: 5/8/12	Time: 4:00	Received By: UPS
Relinquished By: UPS		Date: 5/9/12	Time: 1331	Received By:
Relinquished By:		Date:	Time:	Received By:

Page ___ of ___

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72806 COOLER NUMBER: 244

CLIENT: Woodard NUMBER OF COOLERS: 1

PROJECT: Umaine

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): CP DATE COOLER RECEIVED/OPENED: 5/9/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: UPS 1ZX13 095 03 9053 2772

4. Were custody seals on the outside of cooler? Y N
How many & where: — Seal Date: — Seal Name: —

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 2.3

B. Log-In: Date samples were logged in: 5/9/12 By: CP

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were VOA samples absent of greater than pea-sized bubbles? Y N*/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): JB Date: 5/9/12

C:ANLYTICS LLC\AEL DOCUMENTS\FORMS\SMPL CHKLST\Edit 4908 Rev. 4, 12/21/11

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Selec Print button on the print dialog box that appears. Note: If your browser does not support this f select Print from the File menu to print the label.

2. **Fold the printed sheet containing the label at the line so that the entire shipping label i Place the label on a single side of the package and cover it completely with clear plast shipping tape. Do not cover any seams or closures on the package with the label.** Pla label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   UPS locations include the UPS Store®, UPS drop boxes, UPS customer centers, autho retail outlets and UPS drivers.
   Find your closest UPS location at: www.ups.com/dropoff
   Take your package to any location of The UPS Store®, UPS Drop Box, UPS Customer Cen Alliances (Office Depot® or Staples®) or Authorized Shipping Outlet near you. Items sent vi Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the lo nearest you, please visit the Resources area of CampusShip and select UPS Locations.

   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

DWS ID Label

1ZX1309503905327 72

FOLD HERE

JANE VIOLETTE
207-945-5105
BANGOR
WOODARD & CURRAN
BANGOR ME 04401

5 LBS

1 OF 1

SHIP TO:
ANALYTICS ENVIRONMENTAL LABORATORY
6034365111
195 COMMERCE WAY - SUITE E
PORTSMOUTH NH 03801-3251

NH 038 0-01

UPS GROUND
TRACKING #: 1Z X13 095 03 9053 2772

BILLING: P/P

Project#\Phase or G.O.: 214515.00 004
Personal - Enter Y or N: N

CS 14.1.10. WNTTE80 24.0A 01/2012

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906
www.analyticslab.com

May 18, 2012

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

RE: Analytical Results Case Narrative
Analytics # 72838
UMaine –Stewart Commons Proj# 222822

Dear Ms. Wallace;

Enclosed please find the analytical results for samples submitted for the above-mentioned project. The attached Cover Page lists the sample IDs, Lab tracking numbers and collection dates for the samples included in this deliverable.

Samples were analyzed for Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Unless otherwise noted in the Non-conformance Summary listed below, all of the quality control (QC) criteria including initial calibration, calibration verification, surrogate recovery, holding time and method accuracy/precision for these analyses were within acceptable limits.

This Level II data package has been assembled in the following order:

Case Narrative/Non-Conformance Summary
Sample Log Sheet - Cover Page
PCB Form 1 Data Sheet for Samples and Blanks
Chromatograms
PCB Form 10 Confirmation Results
PCB Form 3 MS/MSD (LCS) Recoveries
Chain of Custody (COC) Forms

QC NON-CONFORMANCE SUMMARY

Sample Receipt:
Samples were received at 18.7°C, which was outside laboratory acceptance criteria. The client was notified and analysis continued.

PCBs by EPA Method 8082:
No results were reported below the quantitation limit.

Sample 72838-2 required a dilution due to PCB concentrations that exceeded the calibration range of the instrument.

Surrogate 2,4,5,6-Tetrachloro-m-xylene recovery on column #2 could not be determined on sample 72838-1 due to interference. Results were reported off of the column #1 without qualification.

The laboratory control samples (L051512PSOX/LD051512PSOX) had a high RPD for PCB 1260 on column #1. Column#2 was in control for PCB 1260. Results were reported without qualification.

If you have any questions on these results, please do not hesitate to contact me.

Sincerely,
ANALYTICS Environmental Laboratory, LLC

Stephen L. Knollmeyer
Laboratory Director

analytics environmental laboratory LLC

195 Commerce Way Suite E
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
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Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

Report Number: 72838

Revision: Rev. 0

Re: UMaine-Stewart Commons (Project No: 222822)

Enclosed are the results of the analyses on your sample(s). Samples were received on 14 May 2012 and analyzed for the tests listed. Samples were received in acceptable condition, with the exceptions noted below or on the chain of custody. These results pertain to samples as received by the laboratory and for the analytical tests requested on the chain of custody. The results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report. Please see individual reports for specific methodologies and references.

Lab Number	Sample Date	Station Location	Analysis	Comments
72838-1	05/11/12	UMSC-VBS-271	EPA 8082 (PCBs only)	
72838-2	05/11/12	UMSC-VBK-272	EPA 8082 (PCBs only)	

Sample Receipt Exceptions: Samples received at 18.7 °C which was outside laboratory acceptance criteria. The client was notified and analysis continued.

Analytics Environmental Laboratory is certified by the states of New Hampshire, Maine, Massachusetts, Connecticut, Rhode Island, Virginia, Maryland, and North Carolina, and is accredited by the Deparment of Defense (DOD) ELAP program. A list of actual certified parameters is available upon request.

If you have any questions on these results, please do not hesitate to contact us.

Authorized signature _____
Stephen L. Knollmeyer Lab. Director

Date 05/18/2012

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analytics environmental laboratory LLC

Surrogate Compound Limits

Matrix:	Aqueous	Solid	
Units:	% Recovery	% Recovery	Method
Volatile Organic Compounds - Drinking Water			
1,4-Difluorobenzene	70-130		EPA 524.2
Bromofluorobenzene	70-130		
1,2-Dichlorobenzene-d4	70-130		
Volatile Organic Compounds			
1,2-Dichloroethane-d4	70-120	70-120	EPA 624/8260B
Toluene-d8	85-120	85-120	
Bromofluorobenzene	75-120	75-120	
Semi-Volatile Organic Compounds			
2-Fluorophenol	20-110	35-105	EPA 625/8270C
d5-Phenol	15-110	40-100	
d5-nitrobenzene	40-110	35-100	
2-Fluorobiphenyl	50-110	45-105	
2,4,6-Tribromophenol	40-110	40-125	
d14-p-terphenyl	50-130	30-125	
PAH's by SIM			
d5-nitrobenzene	21-110	35-110	EPA 8270C
2-Fluorobiphenyl	36-121	45-105	
d14-p-terphenyl	33-141	30-125	
Pesticides and PCBs			
2,4,5,6-Tetrachloro-m-xylene (TCX)	46-122	40-130	EPA 608/8082
Decachlorobiphenyl (DCB)	40-135	40-130	
Herbicides			
Dichloroacetic acid (DCAA)	30-150	30-150	
Gasoline Range Organics/TPH Gasoline			
Trifluorotoluene TFT (FID)	60-140	60-140	MEDEP 4217/EPA 8015
Bromofluorobenzene (BFB) (FID)	60-140	60-140	
Trifluorotoluene TFT (PID)	60-140	60-140	
Bromofluorobenzene (BFB) (PID)	60-140	60-140	
Diesel Range Organics/TPH Diesel			
m-terphenyl	60-140	60-140	MEDEP 4125/EPA 8015/CT ETPH
Volatile Petroleum Hydrocarbons			
2,5-Dibromotoluene (PID)	70-130	70-130	MADEP VPH May 2004 Rev1.1
2,5-Dibromotoluene (FID)	70-130	70-130	
Extracatable Petroleum Hydrocarbons			
1-chloro-octadecane (aliphatic)	40-140	40-140	MADEP EPH May 2004 Rev1.1
o-Terphenyl (aromatic)	40-140	40-140	
2-Fluorobiphenyl (Fractionation)	40-140	40-140	
2-Bromonaphthalene (fractionation)	40-140	40-140	

analytics environmental laboratory LLC

PCB
DATA SUMMARIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCB.doc

analytics environmental laboratory LLC

195 Commerce Way
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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 18, 2012

SAMPLE DATA

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons

Project Number: 222822

Field Sample ID: Lab QC

Lab Sample ID: B051512PSOX RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 05/15/12
Analysis Date: 05/17/12

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	69	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

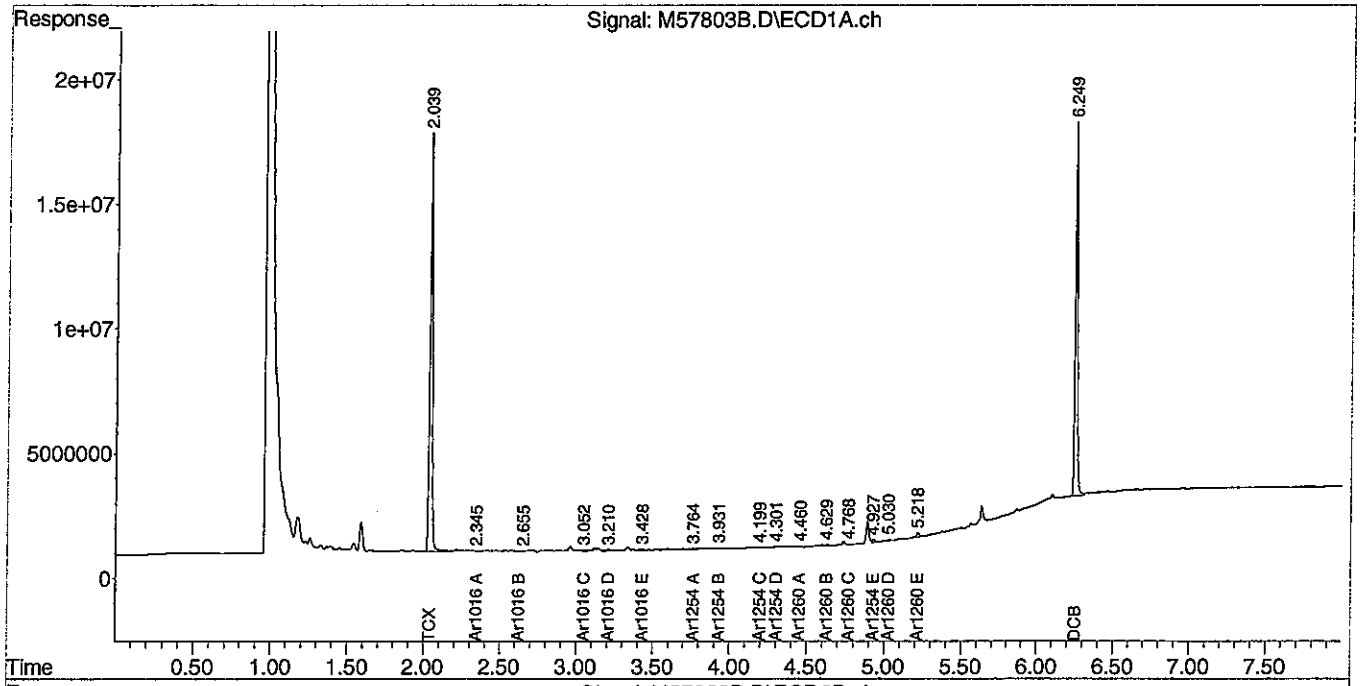
PCB Report

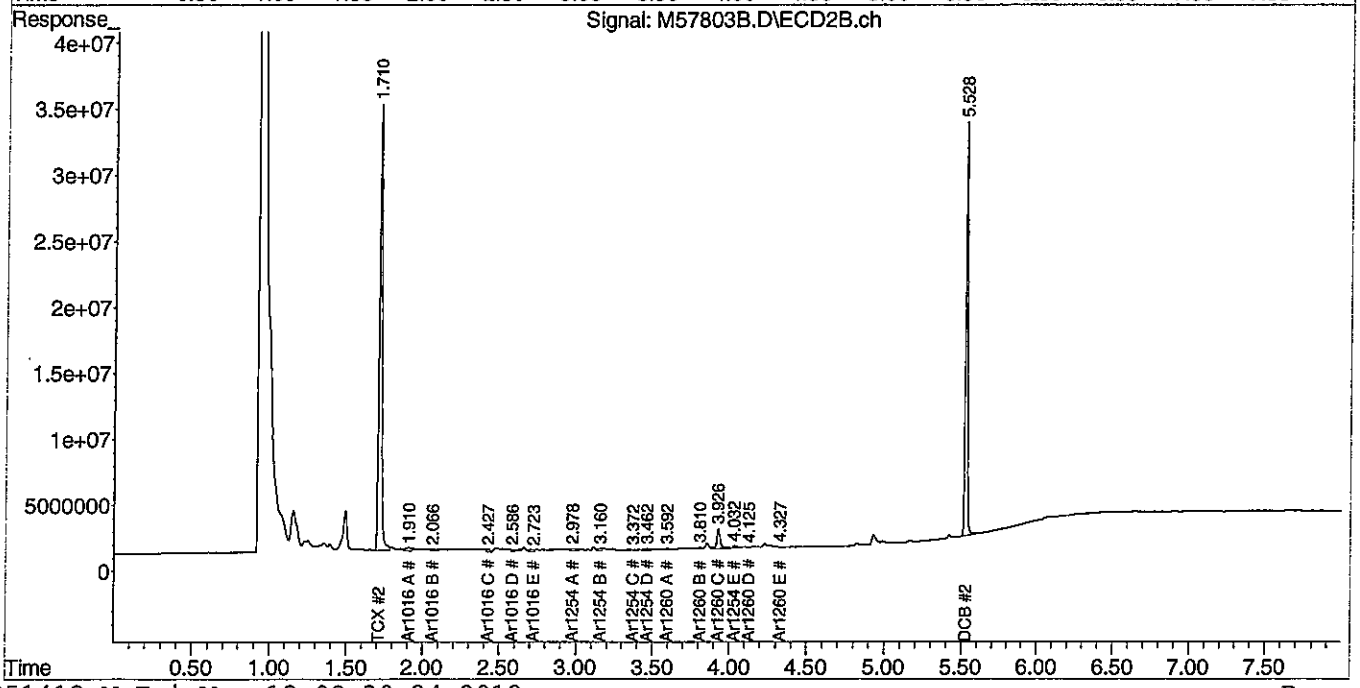
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\051712-M\
Data File : M57803B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2012 10:31 am
Operator : JK
Sample : B051512PSOX,RR,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 08:38:52 2012
Quant Method : C:\msdchem\1\METHODS\PCB051412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue May 15 15:27:52 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 18, 2012

SAMPLE DATA

Lab Sample ID: B051512PSOX RR
Matrix: Soil
Percent Solid: 100
Dilution Factor: 1.0
Collection Date:
Lab Receipt Date:
Extraction Date: 05/15/12
Analysis Date: 05/17/12

CLIENT SAMPLE ID

Project Name: UMaine-Stewart Commons
Project Number: 222822
Field Sample ID: Lab QC

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	33	U
PCB-1221	33	U
PCB-1232	33	U
PCB-1242	33	U
PCB-1248	33	U
PCB-1254	33	U
PCB-1260	33	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	81	%
Decachlorobiphenyl	69	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

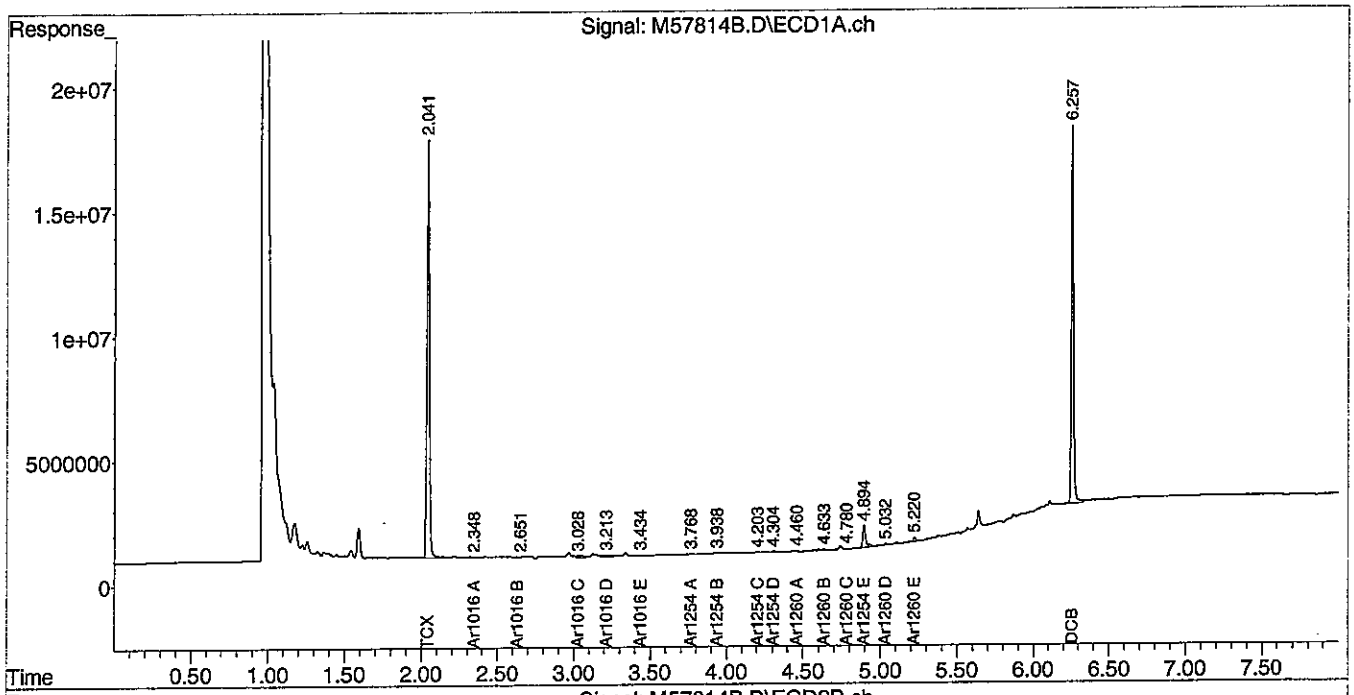
PCB Report

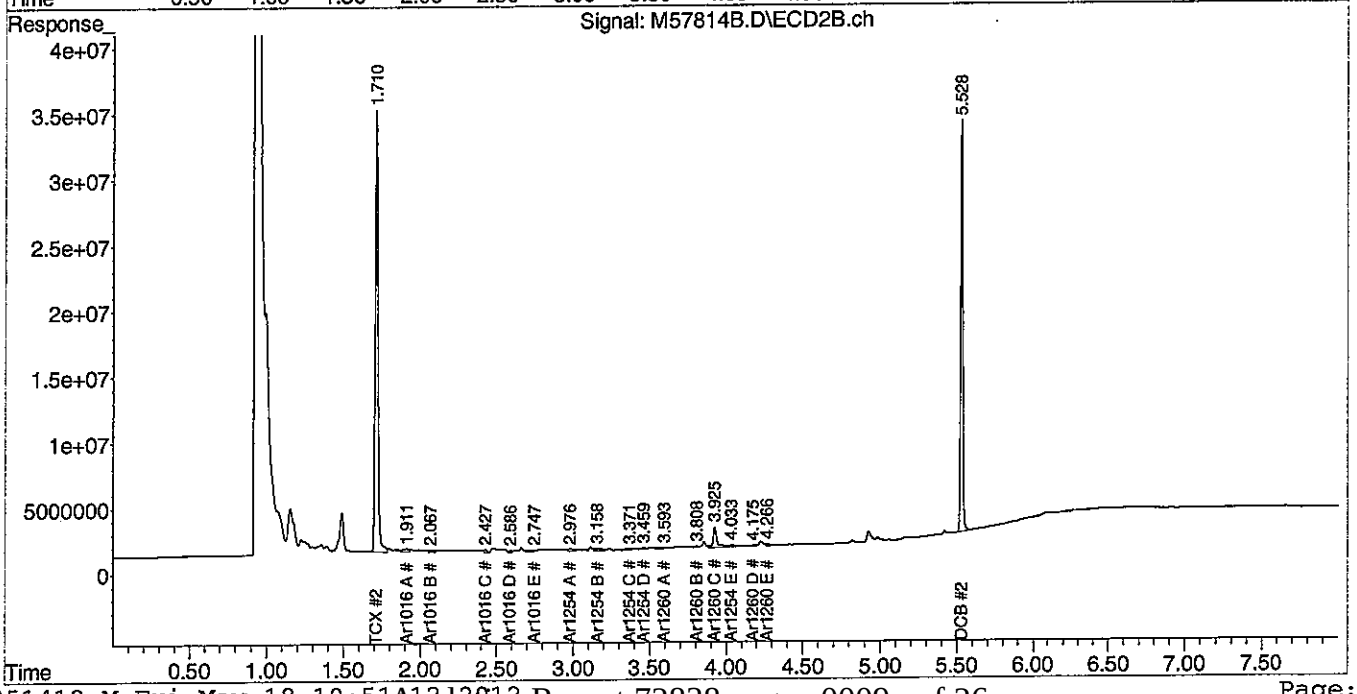
Authorized signature Jemma Lewis

Data Path : C:\msdchem\1\DATA\051712-M\
Data File : M57814B.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2012 12:36 pm
Operator : JK
Sample : B051512PSOX,RR2,,A/C
Misc : SOIL
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:50:30 2012
Quant Method : C:\msdchem\1\METHODS\PCB051412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue May 15 15:27:52 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

195 Commerce Way
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800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 18, 2012

SAMPLE DATA

Lab Sample ID:	72838-1 RR
Matrix:	Solid
Percent Solid:	91
Dilution Factor:	1.1
Collection Date:	05/11/12
Lab Receipt Date:	05/14/12
Extraction Date:	05/15/12
Analysis Date:	05/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBS-271

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	36	U
PCB-1221	36	U
PCB-1232	36	U
PCB-1242	36	U
PCB-1248	36	U
PCB-1254	36	U
PCB-1260	36	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	98	%
Decachlorobiphenyl	89	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082. Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C. Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.

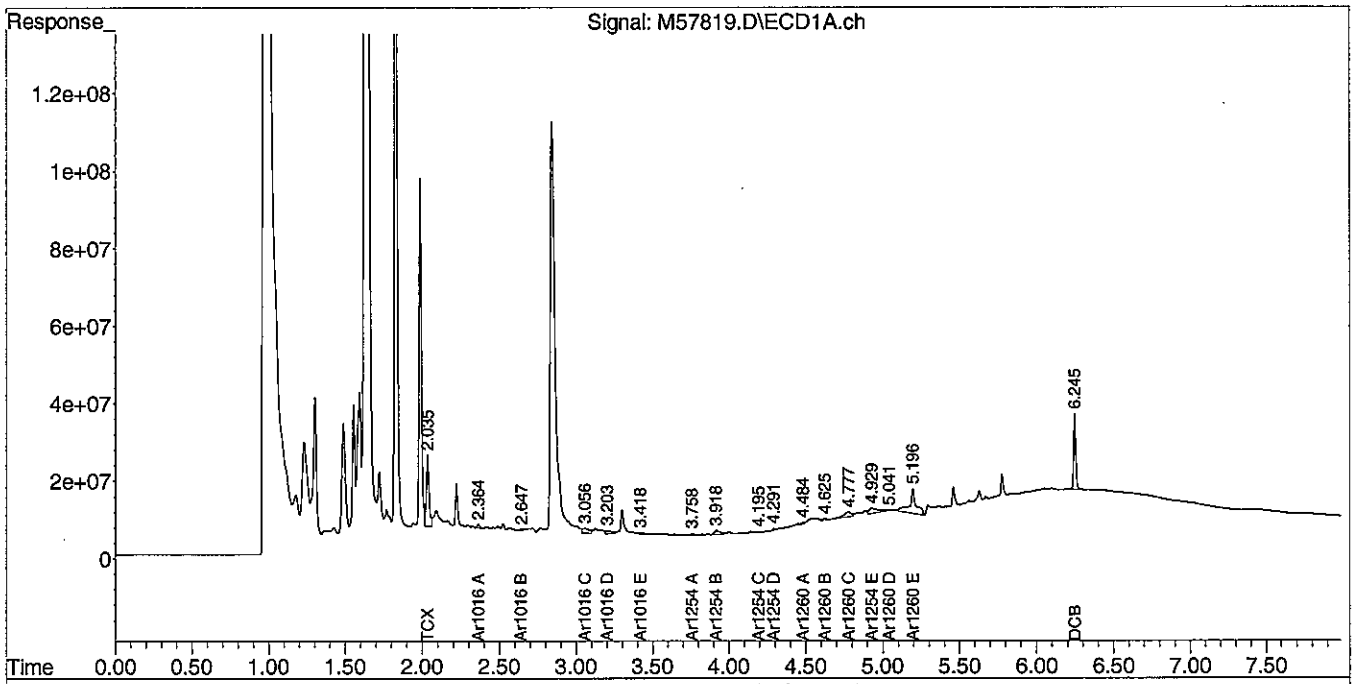
PCB Report

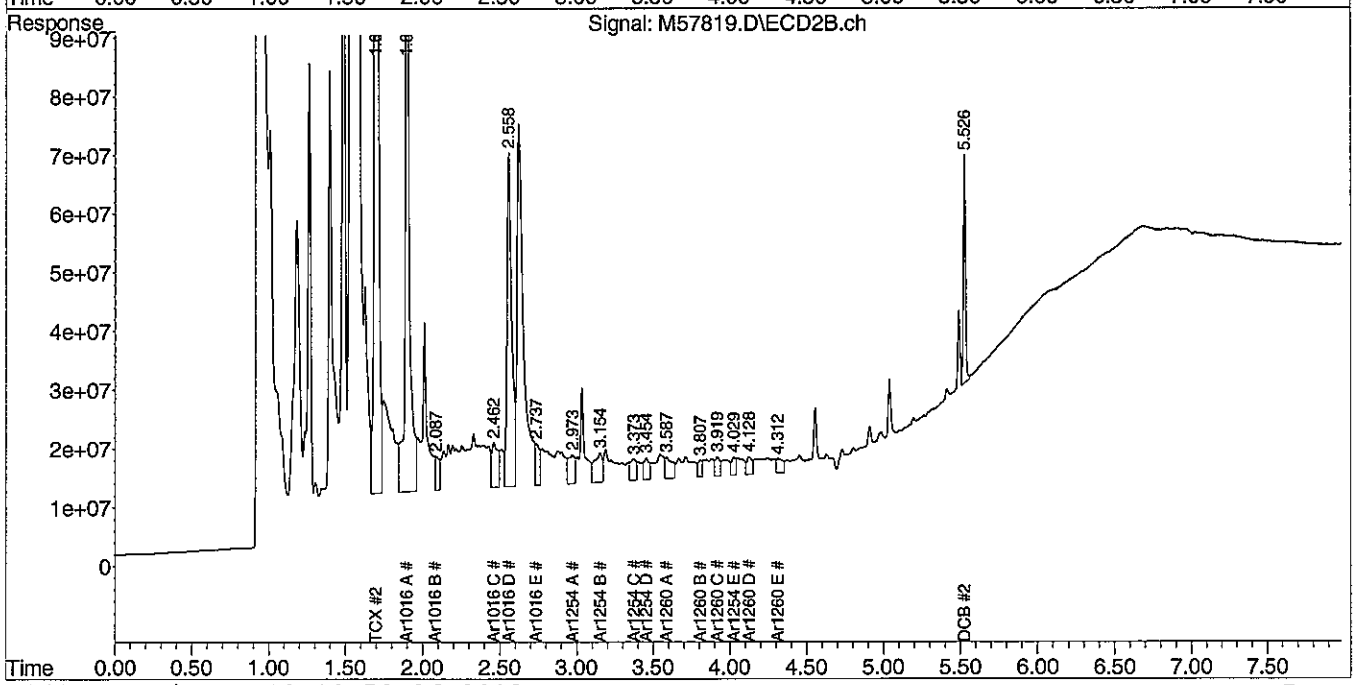
Authorized signature Jenna Lewis

Data Path : C:\msdchem\1\DATA\051712-M\
Data File : M57819.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2012 1:26 pm
Operator : JK
Sample : 72838-1,RR,,A/C
Misc : SOIL
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:58:19 2012
Quant Method : C:\msdchem\1\METHODS\PCB051412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue May 15 15:27:52 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

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Portsmouth, New Hampshire 03801
603-436-5111 Fax 603-430-2151
800-929-9906

Ms. Amy Wallace
Woodard & Curran
41 Hutchins Drive
Portland ME 04102

May 18, 2012

SAMPLE DATA

Lab Sample ID:	72838-2
Matrix:	Solid
Percent Solid:	97
Dilution Factor:	684000
Collection Date:	05/11/12
Lab Receipt Date:	05/14/12
Extraction Date:	05/15/12
Analysis Date:	05/17/12

CLIENT SAMPLE ID

Project Name:	UMaine-Stewart Commons
Project Number:	222822
Field Sample ID:	UMSC-VBK-272

PCB ANALYTICAL RESULTS

COMPOUND	Quantitation Limit µg/kg	Results µg/kg
PCB-1016	22572000	U
PCB-1221	22572000	U
PCB-1232	22572000	U
PCB-1242	22572000	U
PCB-1248	22572000	U
PCB-1254	22572000	**407000000**
PCB-1260	22572000	U

Surrogate Standard Recovery

2,4,5,6-Tetrachloro-m-xylene	*	%
Decachlorobiphenyl	*	%

U=Undetected J=Estimated E=Exceeds Calibration Range B=Detected in Blank

METHODOLOGY: Sample analysis conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 8082.
Sample preparation conducted according to Test Methods for Evaluating Solid Waste, SW-846 Method 3540C.
Sample cleanup was conducted according to SW-846 Method 3665A.

COMMENTS: Results are expressed on a dry weight basis.
* The surrogates were diluted out.

PCB Report

Authorized signature Jemma Lewis

PCB
COLUMN RELATIVE PERCENT DIFFERENCE

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72838
Sample: 72838-2,1:100000,,A/C
Data File: M57821.D
Dilution Factor: 683579.3

	Column #1	Column #2		
COMPOUND	SAMPLE RESULT (ug/kg)	SAMPLE RESULT (ug/kg)	RPD	#
PCB 1254	406874074	380441770	6.7	

Column to be used to flag RPD values greater than QC limit of 40%

* Values outside QC limits

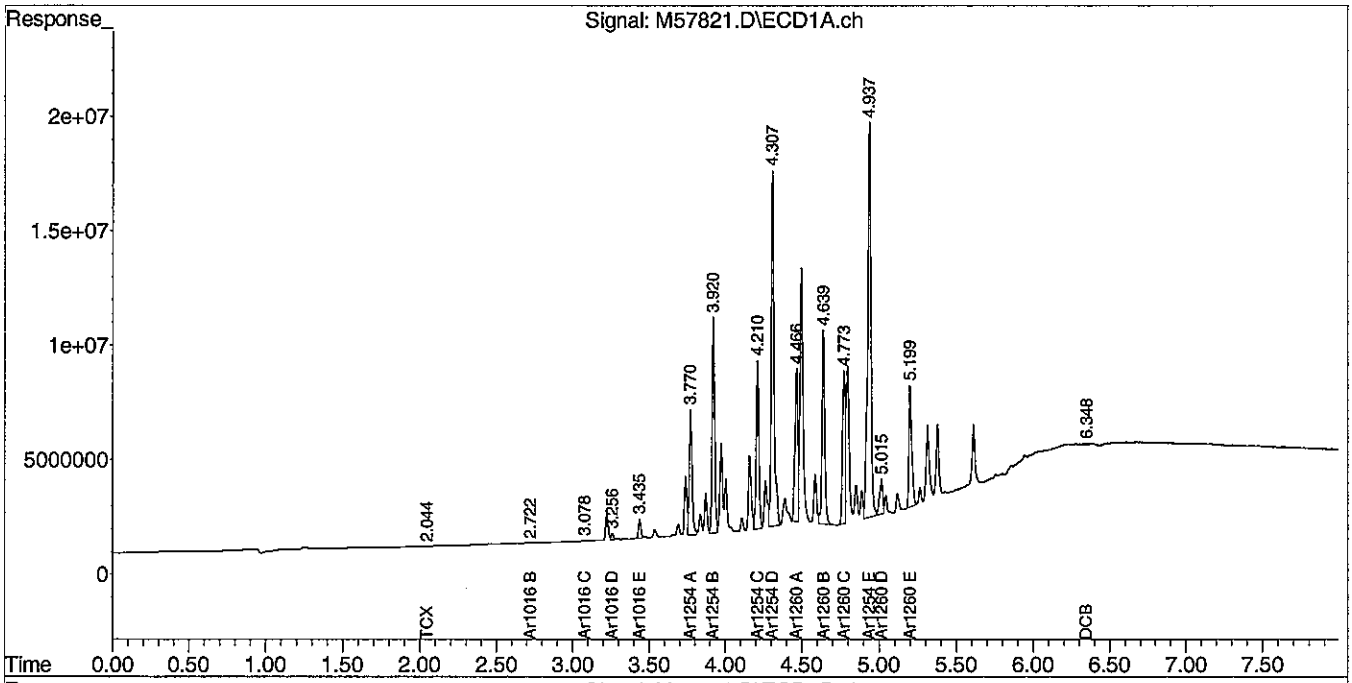
Comments: _____

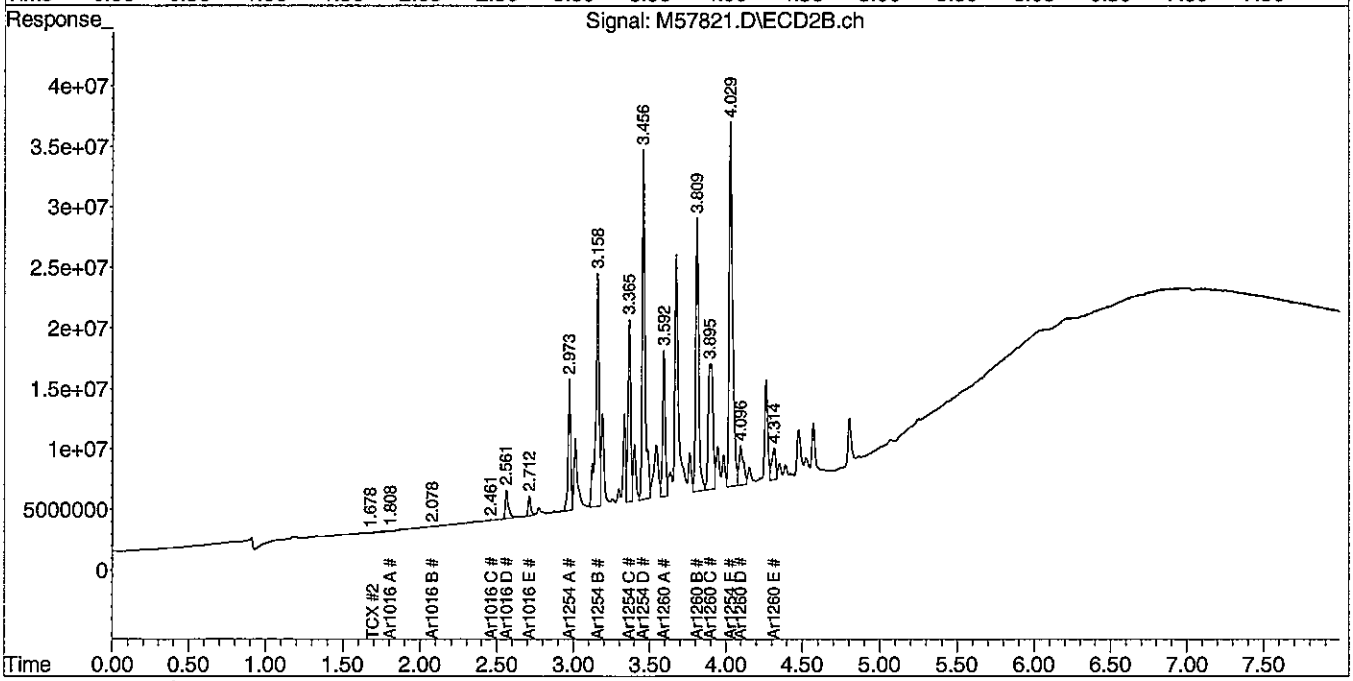
PCB FORM 10

Data Path : C:\msdchem\1\DATA\051712-M\
Data File : M57821.D
Signal(s) : Signal #1: ECD1A.ch Signal #2: ECD2B.ch
Acq On : 17 May 2012 2:51 pm
Operator : JK
Sample : 72838-2,1:100000,,A/C
Misc : SOIL
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: events.e
Integration File signal 2: events2.e
Quant Time: May 18 10:59:14 2012
Quant Method : C:\msdchem\1\METHODS\PCB051412.M
Quant Title : SW-846 METHOD 8082 Aroclor 1016/1260/1254
QLast Update : Tue May 15 15:27:52 2012
Response via : Initial Calibration
Integrator: ChemStation

Volume Inj. : 2 uL
Signal #1 Phase : STX-CLPPesticides Signal #2 Phase: STX-CLPPesticides
Signal #1 Info : 30 m x 0.25mm x 0 Signal #2 Info : 30 m x 0.25mm x 0.25 um





analytics environmental laboratory LLC

PCB
QC FORMS

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:PCBQC.doc

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72838

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B051512PSOX,RR,,A/C	81		69		79		71	
L051512PSOX,,A/C	77		66		76		68	
LD051512PSOX,,A/C	86		93		87		100	

		Lower Limit	Upper Limit
SMC #1 =	TCX	40	130
SMC #2 =	DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
SYSTEM MONITORING COMPOUNDS
SUMMARY

Instrument ID: M
GC Column #1: STX-CLPesticides I
Column ID: 0.25 mm
GC Column #2: STX-CLPesticides II
Column ID: 0.25 mm

SDG: 72838

	Column #1				Column #2			
SAMPLE ID	SMC 1 (%)	#	SMC 2 (%)	#	SMC 1 (%)	#	SMC 2 (%)	#
B051512PSOX,RR2,,A/C	81		69		78		71	
72838-1,MS,,A/C	100		92		I		93	
72838-1,MSD,,A/C	93		81		I		82	
72838-1,RR,,A/C	98		89		I		90	
72838-2,1:100000,,A/C	D		D		D		D	

	Lower Limit	Upper Limit
SMC #1 = TCX	40	130
SMC #2 = DCB	40	130

Column to be used to flag recovery values outside of QC limits
* Values outside QC limits
D System Monitoring Compound diluted out

PCB SOIL
LABORATORY CONTROL SAMPLE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72838

Non-spiked sample: B051512PSOX,RR,,A/C

Spike: L051512PSOX,,A/C

Spike duplicate: LD051512PSOX,,A/C

COMPOUND	LCS SPIKE ADDED (ug/kg)	LCSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	200	200	65	140	30	0	151	75		191	96		23.6	
PCB 1260	200	200	60	130	30	0	147	74		213	107		36.8	*
PCB 1016 #2	200	200	65	140	30	0	142	71		166	83		15.9	
PCB 1260 #2	200	200	60	130	30	0	160	80		209	105		26.8	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

LCS/LCSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

PCB SOIL
MATRIX SPIKE/DUPLICATE
PERCENT RECOVERY

Instrument ID: M

GC Column #1: STX-CLPesticides I

Column ID: 0.25 mm

GC Column #2: STX-CLPesticides II

Column ID: 0.25 mm

SDG: 72838

Non-spiked sample: 72838-1,RR,,A/C

Spike: 72838-1,MS,,A/C

Spike duplicate: 72838-1,MSD,,A/C

COMPOUND	MS SPIKE ADDED (ug/kg)	MSD SPIKE ADDED (ug/kg)	LOWER LIMIT	UPPER LIMIT	RPD LIMIT	NON-SPIKE RESULT (ug/kg)	SPIKE RESULT (ug/kg)	SPIKE % REC	#	SPIKE DUP RESULT (ug/kg)	SPIKE DUP % REC	#	RPD	#
PCB 1016	219	212	65	140	30	0	213	97		190	90		11.2	
PCB 1260	219	212	60	130	30	0	280	128		219	103		24.2	
PCB 1016 #2	219	212	65	140	30	0	177	81		169	79		4.5	
PCB 1260 #2	219	212	60	130	30	0	226	103		200	94		11.9	

Column to be used to flag recovery and RPD values outside of QC limits

* Values outside QC limits

MS/MSD spike added values have been weight adjusted.

Non-spike result of "0" used in place of "U" to allow calculation of spike recovery.

Comments: _____

_____

analytics environmental laboratory LLC

CHAIN OF CUSTODIES

AnalyticsLLC:AEL Documents LLC:Pkg Dividers:COC.doc

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 18.7°
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: JB 5/14/12

Project Name: Umaine - Stevart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:

Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VBS-271	5/11/12	11:35					B						S	1		72838-1

Email Results to:
awallace@woodardcurran.com

Comments, Additional Analyses, or Special Instructions
4 day TAT per client instruction.
-KEJ 05/15/12

** List requested metals here

Turnaround Time (TAT)
- [ ] 24 Hours*
- [ ] 48 Hours*
- [ ] 72 Hours*
- [x] 5 Days*
- [ ] 10 Days

*Fee may apply; lab approval required

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
- [ ] MCP*
- [x] Level II*
- [ ] CTRCP*
- [ ] Level III*
- [ ] DOD*
- [ ] Level IV*
- [ ] Standard

State:
- [ ] NH
- [ ] MA
- [x] ME
- [ ] CT
- [ ] RI

Other:

State Standard:
(eg. S-1 or GW-1)

EDD Required: Y* N

Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler:	Date: 5/11/12	Time: 13:45	Received By:	UPS
Relinquished By: UPS	Date: 5/14/12	Time: 1330	Received By:	
Relinquished By:	Date:	Time:	Received By:	

Page ____ of ____

Chain Of Custody Form

analytics environmental laboratory LLC

195 Commerce Way, Suite E
Portsmouth, NH 03801
(800) 929-9906

(603) 436-5111
(603) 430-2151 Fax

For Analytics Use Only

Samples were:
1) Shipped or hand-delivered
2) Temperature (°C): 18.7
3) Received in good condition: Y or N
4) pH checked by: N/A
5) Labels checked by: JB 5/14/12

Project Name: Umaine - Stewart Commons
Project#: 222822
Company: Woodard & Curran
Report to: Amy Wallace
Address: 41 Hutchins Dr
Portland, ME 04102
Phone: 207-774-2112
Quote #:
PO# (if required):

Preservation Code:

Preseravtion Key:
A= HCL
B= 4°C
C= Unpres
D = MeOH
E = HNO3
F = H2SO4
G = Hexane
H = Other

Circle and/or Write Required Analysis Followed by Preservation Code

Please fill in preservation code here

Matrix Key:
C = Concrete
WP = Wipe
WW = Wastewater
SW = Surface Water
E = Extract
GW = Groundwater
DW = Drinking Water
S = Soil / Sludge
O = Oil
X = Other

Sample Identification	Sample Date	Sample Time	Field Filtered? Y or N	VOC: 8260 524.2 624	SVOC: 8270 625 PAH only SIM	Pesticides: 8081 608	PCB: 8082 608 Soxhlet? Y or N	TPH: 8015 (Gas Range) ME4217	TPH: 8015 (Diesel Range) 8100M ME4125	EPH: Full or Ranges only TETPH	VPH: Full or Ranges only	Metals: RCRA8 PP13 TAL23 Other**	Matrix	No. of Containers	pH checked	Analytics Sample #
UMSC-VBK-272	5/11/12	12:10					G						X	1		72838-2

Email Results to:
awallace@woodardcurran.com

Turnaround Time (TAT)
☐ 24 Hours* ☐ 48 Hours*
☐ 72 Hours* ☐ 5 Days*
☐ 10 Days
*Fee may apply; lab approval required

Comments, Additional Analyses, or Special Instructions: ** List requested metals here
X = Caulking
~~XX HOLD XX~~
~~DO NOT ANALYZE~~ off Hold as per AW - CP 5/14/12
4 day TAT per client instruction - KEJ 05/15/12

Please note: For volatile analyses, a trip blank has been provided in the cooler. If you want the trip blank run and reported please write the trip blank on the COC. Trip Blank analyses will be charged unless other arrangements have been made.

Project Requirements:
*Fee may apply

Report Type:
☐ MCP* ☒ Level II*
☐ CTRCP* ☐ Level III*
☐ DOD* ☐ Level IV*
☐ Standard

State:
☐ NH
☐ MA
☒ ME
☐ CT
☐ RI
Other:

State Standard:
(eg. S-1 or GW-1)
EDD Required: Y* N
Type:

Sampler Name (Print): Charlie Smith

Relinquished By Sampler: [signature]	Date: 5/11/12	Time: 13:45	Received By: UPS
Relinquished By: UPS	Date: 5/14/12	Time: 1330	Received By: [signature]
Relinquished By:	Date:	Time:	Received By:

Page ___ of ___

ANALYTICS SAMPLE RECEIPT CHECKLIST

analytics environmental laboratory LLC

AEL LAB#: 72838

COOLER NUMBER: No cooler

CLIENT: Woodard

NUMBER OF COOLERS: 0

PROJECT: Umaine

A: PRELIMINARY EXAMINATION:

1. Cooler received by(initials): CP

DATE COOLER RECEIVED/OPENED: 5/14/12

2. Circle one: Hand delivered (If so, skip 3) Shipped

3. Did cooler come with a shipping slip? Y N

3a. Enter carrier name and airbill number here: UPS 1ZX13 095 03 9835 6332

4. Were custody seals on the outside of cooler? Y N
How many & where: _____ Seal Date: _____ Seal Name: _____

5. Did the custody seals arrive unbroken and intact upon arrival? Y N/A

6. COC#: _____

7. Were Custody papers filled out properly (ink,signed, legible, project information etc)? Y N

8. Were custody papers sealed in a plastic bag? Y N

9. Did you sign the COC in the appropriate place? Y N

10. Was enough ice used to chill the cooler? Y N Temp. of cooler: 18.7°

B. Log-In: Date samples were logged in: 5/14/12 By: CP

11. Were all bottles sealed in separate plastic bags? Y N

12. Did all bottles arrive unbroken and were labels in good condition? Y N

13. Were all bottle labels complete(ID,Date,time,etc.) Y N

14. Did all bottle labels agree with custody papers? Y N

15. Were the correct containers used for the tests indicated: Y N

16. Were samples received at the correct pH? Y N/A

17. Was sufficient amount of sample sent for the tests indicated? Y N

18. Were all samples submitted within holding time? Y N

19. Were VOA samples absent of greater than pea-sized bubbles? Y N/A
(Note:Pea-sized bubbles or smaller are acceptable and are not considered to adversely affect volatiles data.)

*If NO, List Sample ID's, Lab #s: _____

When bubbles are present in VOA samples they are labelled from smallest (or no bubbles) to largest. Lab to analyze VOA samples with no bubbles or smallest bubbles first

20. Laboratory labeling verified by (initials): BB Date: 5/14/12

analytics environmental laboratory LLC

SAMPLE RECEIPT
NON-COMPLIANCE NOTIFICATION
(SENT VIA FACSIMILE)

DATE 5/14/12 FROM Sample Rec't

FAX CONTACT Amy Wallace FAX NUMBER _____

CLIENT Woodard LAB NUMBER 72838

The exceptions noted below were found on the sample(s) received on the attached Chain of Custody (COC) form. These exceptions may render the data results as non-defensible. Analytics will continue to proceed with the analysis of the sample(s) unless notified in writing to stop the analysis. This document may become part of the final report.

Please check the appropriate box and sign below and fax back to "Sample Receipt" at 603-430-2151.

Exceptions:

- [x] Sample(s) not on ice or not at $4^{o}C \pm 2^{o}C$ – @ 18.7°C with melted bag of ice but not in cooler
- [ ] Sample(s) received unpreserved or not at the proper pH. (pH was adjusted at the laboratory)
- [ ] Sample(s) received in incorrect containers
- [ ] Insufficient sample volume received (Detection limits may be elevated due to this exception)
- [ ] Trip Blank provided in cooler, but not recorded on the chain of custody
- [ ] Other: _____

Acknowledgment:

- [ ] **Please do not analyze/report Trip Blank, proceed with other analyses**
- [ ] **Proceed with the analysis.**
- [ ] **Please stop the analysis and wait for further instructions.**

Signed:_____ **Print Name:**_____

Date:_____

UPS CampusShip: View/Print Label

1. **Ensure there are no other shipping or tracking labels attached to your package.** Select the Print button on the print dialog box that appears. Note: If your browser does not support this function select Print from the File menu to print the label.

2. **Fold the printed sheet containing the label at the line so that the entire shipping label is visible. Place the label on a single side of the package and cover it completely with clear plastic shipping tape. Do not cover any seams or closures on the package with the label.** Place the label in a UPS Shipping Pouch. If you do not have a pouch, affix the folded label using clear plastic shipping tape over the entire label.

3. **GETTING YOUR SHIPMENT TO UPS**
   UPS locations include the UPS Store®, UPS drop boxes, UPS customer centers, authorized retail outlets and UPS drivers.
   Find your closest UPS location at: www.ups.com/dropoff
   Take your package to any location of The UPS Store®, UPS Drop Box, UPS Customer Center, UPS Alliances (Office Depot® or Staples®) or Authorized Shipping Outlet near you. Items sent via UPS Return Services(SM) (including via Ground) are also accepted at Drop Boxes. To find the location nearest you, please visit the Resources area of CampusShip and select UPS Locations.

   Customers with a Daily Pickup
   Your driver will pickup your shipment(s) as usual.

FOLD HERE

JANE VIOLETTE
207-945-5105
BANGOR
WOODARD & CURRAN
BANGOR ME 04401

4 LBS

1 OF 1

SHIP TO:
ANALYTICS ENVIRONMENTAL LABORATORY
6034365111
195 COMMERCE WAY - SUITE E
PORTSMOUTH NH 03801-3251

NH 038 0-01

UPS GROUND
TRACKING #: 1Z X13 095 03 9835 6332

BILLING: P/P

Project#\Phase or G.O.: 214515.00 004
Personal - Enter Y or N: N

CS 14.1.10. WNTIE80 24.0A 01/2012

From: "Amy Wallace" <awallace@woodardcurran.com>
Subject: **RE: pending samples**
Date: May 15, 2012 10:55:18 AM EDT
To: "Kate Zaleski" <kzaleski@analyticslab.com>

That is fine, thank you.

-----Original Message-----
From: Kate Zaleski [mailto:kzaleski@analyticslab.com]
Sent: Tuesday, May 15, 2012 10:54 AM
To: Amy Wallace
Subject: Re: pending samples

Amy,
Attached is the COC and sample receipt checklist for the samples received yesterday. Looks like the login dept noted the temperature was high. We will continue with analysis unless we hear otherwise from you.

Thanks,
Kate

APPENDIX C: WASTE SHIPMENT RECORDS

APPENDIX C

PCB Waste Shipment Summary
Former Stewart Commons Dining Hall - University of Maine, Orono

PCB > 50 ppm waste
(CWM Chemical Services, Model City, NY)

Shipment Number	Manifest Number	Weight (Kilograms)	
1	1036414	5,706	
2	1036415	5,906	
3	1036416	5,479	
4	1036448	771	
5	1559420	136	
		17,998	(kilograms)
		19.84	**(tons)**

PCB < 50 ppm waste
(Turnkey Recycling & Environmental Enterprises, Rochester, NH)

Shipment Number	Manifest Number	Weight (Tons)	
1	20595	15.39	
2	20596	14.78	
3	20597	13.95	
4	20598	13.85	
5	20618	13.59	
6	20620	15.15	
7	20621	12.94	
8	20637	11.89	
9	20660	18.81	
10	20665	9.14	
		139.49	**(tons)**

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: MED060996451
2. Page 1 of 1
3. Emergency Response Phone: 800 968-1102
4. Manifest Tracking Number: 001036414 GBF

5. Generator's Name and Mailing Address
University of Maine Orono
5701 College Ave.
Orono ME 04469
Att: Carolyn McDonough
Safety & Env. Mgt Dept.- 5725 East Anne

Generator's Site Address (if different than mailing address)
U of ME - ORONO
Stewart Commons/Gannett Road
Orono ME 04469

SC

Generator's Phone: 207 581-4141

6. Transporter 1 Company Name: ENPRO SERVICES, INC.
U.S. EPA ID Number: MAD980670004

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 14107
U.S. EPA ID Number: NYD049836679
Facility's Phone: 716 754-8231

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. UN3432, Polychlorinated biphenyls, solid 9, PGII	001	CM	1336	K	B007 M002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
(ENPRO PO 14653)
1X(T) PCB/debris NY301460 Wgt is estimated ERG#171 (out of service date 12/31/2012)
recd STOCK 8 1x55 1641
ENPRO JOB# 6040-12

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: Joel Jon Wilkerson
Signature:
Month 05 Day 04 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: John Chet
Signature:
Month 05 Day 04 Year 12
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space: ☒ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Alternate Received STOCK
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: Judy Pritchard
Signature:
Month 5 Day 8 Year 12

GENERATOR | INT'L | TRANSPORTER | DESIGNATED FACILITY

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

TRANSPORTER'S COPY

www.enpro.com www.tsdf.com www.hazardouswaste.com www.enpro.com

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

189840 SCALE 1

Cubic Yards

SC

001036414GBF
6040.12
12580P
5706K

GROSS 56600 LB
06:32 AM 05/08/12
SCALE 2
GROSS 44020 LB
08:10 AM 05/08/12

Receipt # 8165641 | Trailer License Plate # and State

Service Req. # | Profile # | Permit #

Transporter Name | Tractor/Trailer/Roll-off # 10011

Driver's Name | Generator

Scheduled Arrival: Date | Time

Actual Arrival: Date | Time In 624 | Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials | Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory — Time In | Time Out | Initials | Comments

Stabilization — Time In | Time Out | Initials | Gross Wt. | Comments

Landfill — Time In | Time Out | Initials | Comments

Other — Time In | Time Out | Initials | Comments

Aqueous Treatment — Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (*please initial*)

- Smoking or eating in prohibited areas
- Failure to obey instructions of facility personnel
- Failure to wear appropriate PPE
- Unsafe driving practices
- Leaving truck unattended
- Failure to display overweight flag
- Improper tarping or detarpin
- Overweight upon arrival
- Other (specify)

Security Guard Initials:
(*Indicating receipt of Wash Bay pass, if necessary*)

Driver's Comments

WASTE MANAGEMENT

CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
(716) 286-1550
(716) 286-0211 Fax

UNIVERSITY OF MAINE
ATTN: SAFETY/ENV MDT DEPT.,CAROLYN MCDONOUGH
MED060996451
5725 EAST ANNE
ORONO ME 04469

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF MAINE on 05/08/12 as described on Shipping Document number 001036414GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY301460
CWM Tracking ID: 8165164101
CWM Unit #: 1*0
Disposal Date: 05/08/12

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, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 354226
05/09/12

For questions please call
our Customer Service Dept.
at (800) 843-3604

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: MED088098451
2. Page 1 of: 1
3. Emergency Response Phone: 800 966-1102
4. Manifest Tracking Number: 001036415 GBF

5. Generator's Name and Mailing Address: University of Maine Orono, 5701 College Ave, Orono ME 04469 — Att: Carolyn McDonough, Safety & Env. Mgt Dept., 6726 East Annex
Generator's Site Address (if different than mailing address): U of ME - ORONO, Stewart Commons/Garnell Road, Orono ME 04469
Generator's Phone: 207 581-4141

6. Transporter 1 Company Name: ENPRO SERVICES, INC.
U.S. EPA ID Number: MAD980870004

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 14107
Facility's Phone: 716 754-8231
U.S. EPA ID Number: NYD049836679

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. UN3432, Polychlorinated biphenyls, solid, 9, PGII	001	CM	43/36	K	B007 M003
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
(ENPRO PO 14853)
1(T) PCB/debris 1(Y)301480 Wgt is estimated ERG#171 (out of service date 05/4/12)
ENPRO JOB# 6040-12

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: JOHN WILKERSON
Signature:
Month: 05 Day: 04 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: Albert Hound
Signature:
Month: 05 Day: 04 Year: 12
Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

18. Discrepancy
18a. Discrepancy Indication Space ☑ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Weight actual 5900 lb
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. H133 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: Bill Parfunk
Signature:
Month: 5 Day: 9 Year: 12

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

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

TRANSPORTER'S COPY

www.enpro.com www.tsdf.com www.hazardouswaste.com www.enpro.com

Transporter Log
CWM Chemical Services, Inc.
Model City, NY

189855

SC _____ Cubic Yards

0010364156B
6040-12

SCALE 1
GROSS 48790 LB
SCALE 2
06:29 AM 05/09/12
GROSS 35760 LB
09:05 AM 05/09/12

Receipt # 21451657 | Trailer License Plate # and State 64919 [illegible]

Service Req. # _____ Profile # _____ Permit # _____

Transporter Name [illegible] | Tractor/Trailer/Roll-off # [illegible]

Driver's Name [illegible] | Generator [illegible]

Scheduled Arrival: Date [illegible] Time [illegible]

Actual Arrival: Date [illegible] Time In [illegible] Time Out _____

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials [illegible] Comments _____

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas
_____ Leaving truck unattended
_____ Failure to obey instructions of facility personnel
_____ Failure to display overweight flag
_____ Failure to wear appropriate PPE
_____ Improper tarping or detarpin
_____ Unsafe driving practices
_____ Overweight upon arrival
_____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

WASTE MANAGEMENT

CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
(716) 286-1550
(716) 286-0211 Fax

UNIVERSITY OF MAINE
ATTN: SAFETY/ENV MDT DEPT.,CAROLYN MCDONOUGH
MED060996451
5725 EAST ANNE
ORONO ME 04469

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF MAINE on 05/09/12 as described on Shipping Document number 001036415GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY301460
CWM Tracking ID: 8165165701
CWM Unit #: 1*0
Disposal Date: 05/09/12

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, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 354243
05/10/12

For questions please call
our Customer Service Dept.
at (800) 843-3604

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: MED060996451
2. Page 1 of 1
3. Emergency Response Phone: 800 966-1102
4. Manifest Tracking Number: 001036416 GBF

5. Generator's Name and Mailing Address: Att: Carolyn McDonough
University of Maine Orono
5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Anne
Orono ME 04469
Generator's Phone: 207 581-4141

Generator's Site Address (if different than mailing address):
U of ME - ORONO
Stewart Commons/Gannett Road
Orono ME 04469

6. Transporter 1 Company Name: ENPRO SERVICES, INC
U.S. EPA ID Number: MAD980670004

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 14107
Facility's Phone: 716 754-8231
U.S. EPA ID Number: NYD049836879

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. UN3432, Polychlorinated biphenyls, solid 9, PGII	001	CM	9071	K	B007 M002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: 1)(1) PCB/dioxins NY301460 Wgt is estimated ERG#171 (out of service date [illegible])
(ENPRO PO 14653)
5479K
ENPRO JOB# 6040-12

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: X
Signature:
Month Day Year

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: Signature: Month Day Year
Transporter 2 Printed/Typed Name: Signature: Month Day Year

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: Signature: Month Day Year

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

TRANSPORTER'S COPY

GENERATOR — INT'L — TRANSPORTER — DESIGNATED FACILITY

www.enpro.com www.tsdf.com www.hazardouswaste.com www.hazardouswaste.com www.hazardouswaste.com www.hazardouswaste.com

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

189955

Cubic Yards

Receipt #

Trailer License Plate # and State

Service Req. #

Profile #

Permit #

6040-12

Transporter Name

Tractor/Trailer/Roll-off #

Driver's Name

Generator

Scheduled Arrival: Date Time

Actual Arrival: Date Time In Time Out

001036416 GBF

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In | Time Out | Initials | Comments

Stabilization

Time In | Time Out | Initials | Gross Wt. | Comments

Landfill

Time In | Time Out | Initials | Comments

Other

Time In | Time Out | Initials | Comments

Aqueous Treatment

Time In | Time Out | Signature (NO Initials) | Comments

Facility Personnel (please initial)

- Smoking or eating in prohibited areas
- Failure to obey instructions of facility personnel
- Failure to wear appropriate PPE
- Unsafe driving practices
- Other (specify)
- Leaving truck unattended
- Failure to display overweight flag
- Improper tarping or detarpin
- Overweight upon arrival

Security Guard Initials:
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

White: Records Green & Canary: Accts Rec Pink: Environmental

WASTE MANAGEMENT

CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
(716) 286-1550
(716) 286-0211 Fax

UNIVERSITY OF MAINE
ATTN: SAFETY/ENV MDT DEPT.,CAROLYN MCDONOUGH
MED060996451
5725 EAST ANNE
ORONO ME 04469

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF MAINE on 05/16/12 as described on Shipping Document number 001036416GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY301460
CWM Tracking ID: 8165175601
CWM Unit #: 1*0
Disposal Date: 05/16/12

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, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 354387
05/17/12

For questions please call
our Customer Service Dept.
at (800) 843-3604

SR#4812584

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: MED060996451
2. Page 1 of 6
3. Emergency Response Phone: 800 986-1102
4. Manifest Tracking Number: 001036448 GBF

5. Generator's Name and Mailing Address: University of Maine Orono, 5701 College Ave., Orono ME 04469, Safety & Env. Mgt Dept.- 5725 East Anne, Alt: Carolyn McDonough
Generator's Site Address (if different than mailing address): U of ME - ORONO, Stewart Commons/Gannett Road, Orono ME 04469
Generator's Phone: 207 581-4141

6. Transporter 1 Company Name: ENPRO SERVICES, INC.
U.S. EPA ID Number: MAD980670004

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 14107
Facility's Phone: 716 754-8231
U.S. EPA ID Number: NYD049836679

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. UN3432, Polychlorinated biphenyls, solid 9, PGII	001	CM	7000	K	B007 M002
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information: 1)(T) PCB/debris NY301460 Wgt is estimated ERG#171 (out of service date 05/17/2012) (ENPRO PO 14653)
road 771K / 8165181D
ENPRO JOB# 6040-12

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: X SCOTT WILKERSON
Signature: [signature]
Month 05 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: JOHN CHAP
Signature: [signature]
Month 05 Day 18 Year 12
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

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. 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: Jacky Pachinski
Signature: [signature]
Month 5 Day 22 Year 12

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

TRANSPORTER'S COPY

www.enpro.com www.tsdf.com www.hazardouswaste.com www.enpro.com

Transporter Log

CWM Chemical Services, Inc.
Model City, NY

190008

Cubic Yards

Receipt #

Trailer License Plate # and State

Service Req. #

Profile #

Permit #

Transporter Name

Tractor/Trailer/Roll-off #

Driver's Name

Generator

Scheduled Arrival: Date Time

Actual Arrival: Date Time In Time Out

Arrived during Blackout? Y / N Notified DEC? Y / N

Receiving: Initials Comments

☐ Leaker ☐ Permit Violation ☐ Placarding/Veh. I.D. Violation

☐ Other (specify _____

☐ Bulk to Landfill ☐ No wet line ☐ Flatbed ☐ Stabilization ☐ Drums ☐ Tanker ☐ Transformers

Laboratory

Time In	Time Out	Initials	Comments

Stabilization

Time In	Time Out	Initials	Gross Wt.	Comments

Landfill

Time In	Time Out	Initials	Comments

Other

Time In	Time Out	Initials	Comments

Aqueous Treatment

Time In	Time Out	Signature (NO Initials)	Comments

Facility Personnel (*please initial*)

_____ Smoking or eating in prohibited areas

_____ Leaving truck unattended

_____ Failure to obey instructions of facility personnel

_____ Failure to display overweight flag

_____ Failure to wear appropriate PPE

_____ Improper tarping or detarpin

_____ Unsafe driving practices

_____ Overweight upon arrival

_____ Other (specify) _____

Security Guard Initials: _____
(Indicating receipt of Wash Bay pass, if necessary)

Driver's Comments

WASTE MANAGEMENT

CWM CHEMICAL SERVICES, LLC
1550 Balmer Road
Model City, NY 14107
(716) 286-1550
(716) 286-0211 Fax

UNIVERSITY OF MAINE
ATTN: SAFETY/ENV MDT DEPT.,CAROLYN MCDONOUGH
MED060996451
5725 EAST ANNE
ORONO ME 04469

CERTIFICATE OF DISPOSAL

CWM CHEMICAL SERVICES, L.L.C., EPA ID: NYD049836679, has received waste material from UNIVERSITY OF MAINE on 05/22/12 as described on Shipping Document number 001036448GBF Sequence number 01. CWM CHEMICAL SERVICES, L.L.C. hereby certifies that the above described material was landfilled in accordance with the 40 CFR part 761 as it pertains to the land disposal of polychlorinated biphenyl contaminated materials.

Profile Number: NY301460
CWM Tracking ID: 8165181001
CWM Unit #: 1*0
Disposal Date: 05/22/12

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, acting under my direct instructions, made the verification that this information is true accurate and complete.

MICHAEL D MAHAR
DISTRICT MANAGER
Certificate # 354561
05/23/12

For questions please call
our Customer Service Dept.
at (800) 843-3604

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: M E D 0 6 0 9 9 6 4 5 1
2. Page 1 of: 1
3. Emergency Response Phone: 800 966-1102
4. Manifest Tracking Number: 001559420 GBF

5. Generator's Name and Mailing Address
University of Maine Orono
5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Annex
Orono ME 04469
Att: Carolyn McDonough
Generator's Phone: 2 0 7 5 8 1 - 4 1 4 1

Generator's Site Address (if different than mailing address)
U of ME - ORONO
Stewart Commons/Gannett Road
Orono ME 04469

6. Transporter 1 Company Name: ENPRO SERVICES, INC.
U.S. EPA ID Number: M A D 9 8 0 6 7 0 0 0 4

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

8. Designated Facility Name and Site Address
ENPRO SERVICES OF VERMONT, INC.
54 AVENUE D
WILLISTON VT 05495
Facility's Phone: 802 860-1200
U.S. EPA ID Number: V T R 0 0 0 5 1 7 0 5 2

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. UN3432, Polychlorinated biphenyls, solid, Mixture 9, PGII	002	CF	136	K	M002 VT01
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
1)(S,T)PCB caulking/ debris -TPACK VT-0812-10470
ERG#171 ENPRO PO# 19753-61

OUT OF SERVICE DATE: 8/1/12

ENPRO JOB# 7936-12

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: Thomas P. Sukfutty
Signature:
Month Day Year: 8 21 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: John A. Massey
Signature: John A. Massey
Month Day Year: 08 21 12
Transporter 2 Printed/Typed Name:
Signature:
Month Day Year:

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. H141 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: Kathleen D Michaudi
Signature:
Month Day Year: 8 30 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)

www.hazardouswaste.com www.enpro.com www.tsdf.com www.hazardouswaste.com

Certificate of Disposal

ENPRO SERVICES OF VERMONT, INC.

This is to certify that all material from University of Maine Orono, 5701 College Ave, Orono ME 04469 per Manifest Number: 001559420GBF received by ENPRO SERVICES OF VERMONT, INC., WILLISTON VT 05495 on August 30, 2012 has been recycled/disposed of in a manner consistant with acceptable engineering standards and in compliance with applicable permits, authorizations, rules, and regulations issued or set forth by State and Federal authorities.

Waste Streams Received:

UNIV OF ME PCB Caulking and Debris

Authorization Signature

ENPRO

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MED069094511 Manifest Document No. 20595

2. Page 1 of 1

3. Generator's Name and Mailing Address
University of Maine Orono
5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Annex
Orono ME 04469
Attn: Carolyn McDonough

4. Generator's Phone (207) 581-4141

A. Non Hazardous Manifest Document Number: NHZ001 20595

B. S.G.I. (Gen. Site Address): [illegible] Road, Orono ME 04469

C. S.T.I. (Lic. Plate #): [illegible]

D. Transporter's Phone: 978-455-1045

5. Transporter 1 Company Name: ENPRO SERVICES, INC.

6. US EPA ID Number: MAD986070004

7. Transporter 2 Company Name

8. US EPA ID Number

E. S.T.I. (Lic. Plate #)

F. Transporter's Phone

9. Designated Facility Name and Site Address
WASTE MANAGEMENT OF NH INC.
90 ROCHESTER NECK ROAD
ROCHESTER NH 03839

10. US EPA ID Number: DESSWSP9S001

G. State Facility's ID: 90 ROCHESTER NECK ROAD, ROCHESTER NH 03839

H. Facility's Phone: 603-332-4775

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON DOT, NON RCRA REGULATED MATERIAL	001	CM	00015	T	State NONE / State NONE
b.					State / State
c.					State / State
d.					State / State

J. Additional Descriptions for Materials Listed Above
(S) soil w/trace PCB approval #[illegible]/NH - wgt est estimated
(Lab)

K. Handling Codes for Wastes Listed Above: a. Interim / Final; b. Interim / Final; c. Interim / Final; d. Interim / Final

15. Special Handling Instructions and Additional Information
EMERGENCY 1) (ENPRO PO 14320)
ENPRO SERVICES, INC. - 24 HOURS - (800) 968-1102

Point of Departure: ENPRO JOB# 6040-12

16. **GENERATOR'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 national government regulations, and all applicable state laws and regulations.

Printed/Typed Name: Thomas P Sikoroff | Signature | Month Day Year: 9/6/12

GENERATOR

17. Transporter 1 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name: JOHN OWO | Signature | Month Day Year: 9/6/12

18. Transporter 2 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name | Signature | Month Day Year

TRANSPORTER

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. | Date

Printed/Typed Name | Signature | Month Day Year: 9/6/12

FACILITY

TRANSPORTER #1

www.enpro.com www.hazardouswaste.com www.tsdf.com

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 801931

NH2001 20595

6040-12

SC

Customer Name ENPROSVCSINC Enpro Services,
Ticket Date 04/16/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest 20595
Destination
Generator NE-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier ENPRO ENPRO SERVICES
Vehicle# 1001 Volume
Container
Driver
Check#
Billing # 8000352
Gen EPA ID NOT REQUIRED
PO
Profile 489677NH (CONTAMINATED SOIL (DISPO

	Time	Scale	Operator	Inbound		
In.	04/16/2012 14:57:01	scale 1 inbou	phil boisvert		Gross	73000 lb
Out	04/16/2012 15:35:05	scale 2 outbo	eric metzler		Tare	42300 lb
					Net	30700 lb
					Tons	15.39

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Met-Tons	100	15.39	Tons				NE
2	FUEL-Fuel Surcharg	100		%				NE
3	EVF-P-Standard Env	100		%				NE

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.

ART,S TRUCK STOP

6040-12

LDBROOK RDBANGOR ME 04401
80 207 9424878

SC

NH2001 20595

No.: 54215
Date: 04/16/?2

ID: 1001
Rate: Auto Weigh

$ ~~15.00~~ No charge today

Steering Axle:	11720	lbs
Drive Axle:	33460	lbs
Trailer Axle:	33140	lbs
TOTAL:	78320	lbs

Certified Scales

ENPRO

1002

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MED069945145 Manifest Document No. 2 0 5 9 6

2. Page 1 of 1

3. Generator's Name and Mailing Address
University of Maine Orono
5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Annex
Orono ME 04469
Attn: Carolyn McDonough

4. Generator's Phone (2 0 7) 5 8 1 - 4 1 4 1

A. Non Hazardous Manifest Document Number NHZ001 20596

B. S.G.I. Gen. Site Address
Stewart Commons/Mamel Road
Orono ME 04469

C. S.T.I. (Lic. Plate #) 4825A24917

D. Transporter's Phone 978-465-1596

5. Transporter 1 Company Name
ENPRO SERVICES, INC.

6. US EPA ID Number MAD988087000

7. Transporter 2 Company Name

8. US EPA ID Number

E. S.T.I. (Lic. Plate #)

F. Transporter's Phone

9. Designated Facility Name and Site Address
WASTE MANAGEMENT OF NH INC.
90 ROCHESTER NECK ROAD
ROCHESTER NH 03839

10. US EPA ID Number DES9WSP95001

G. State Facility's ID 90 ROCHESTER NECK ROAD ROCHESTER NH 03839

H. Facility's Phone 603-332-4775

11. US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON DOT, NON RCRA REGULATED MATERIAL	001	CM	00016	T	State NONE State NONE
b.					State State
c.					State State
d.					State State

J. Additional Descriptions for Materials Listed Above
(5) soil w/trace PCB approval 45067/NH - wgt is estimated
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. Interim: Final:
b. Interim: Final:
c.
d.

15. Special Handling Instructions and Additional Information
ENPRO SERVICES, INC. - 24 HOURS - (800) 968-1102
1) (ENPRO PO 14326)

Point of Departure: ENPRO JOB# 6040-12

16. **GENERATOR'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 national government regulations, and all applicable state laws and regulations.

GENERATOR

Printed/Typed Name: Thomas Sukotitz — Signature — Month/Day/Year: 4/1/12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name: Mike Choiniere — Signature — Month/Day/Year: 04/07/12

18. Transporter 2 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name — Signature — Month/Day/Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. — Date

Printed/Typed Name — Signature — Month/Day/Year: 4/9/12

TRANSPORTER #1

www.enpro.com www.tsdf.com www.hazardouswaste.com

/SART,S TRUCK STOP

COLDBROOK RDBANGOR ME 04401
T 180 207 9424879

NH2001 20596 6040-12

ket No.: 54286
Date: 04/17/12

ID: 1004
Rate: Auto Weigh

$ 6.00

Steering Axle:	12460	lbs
Drive Axle:	25520	lbs
Trailer Axle:	26020	lbs
TOTAL:	64000	lbs

Certified Scales

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 882089

NHZ001 20596 6040-12

Customer Name ENPROSVCSINC Enpro Services,
Ticket Date 04/17/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest 20296
Destination
Generator NE-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier ENPRO ENPRO SERVICES
Vehicle# 1004 Volume
Container
Driver
Check#
Billing # 0000352
Gen EPA ID NOT REQUIRED
PO
Profile 489677HH (CONTAMINATED SOIL (DISPO

	Time	Scale	Operator	Inbound		
In	04/17/2012 13:27:35	scale 1 inbou	phil boisvert		Gross	63800 lb
Out	04/17/2012 14:26:36	scale 2 autho	eric metzler		Tare	34240 lb
					Net	29560 lb
					Tons	14.78

Comments

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Met-Tons	100	14.78	Tons				ME
2	FUEL-Fuel Surcharg	100		%				ME
3	EVF-P-Standard Env	100		%				ME

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.

ENPRO

1004

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MED 0 9 8 4 5 1 | Manifest Document No. 20597 | 2. Page 1 of 1

3. Generator's Name and Mailing Address
University of Maine Orono
5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Annex
Orono ME 04469
Attn: Carolyn McDonough
4. Generator's Phone (2 0 7) 5 8 1 - 4 1 4 1

A. Non-Hazardous Manifest Document Number: NHZ001 20597
B. S.G.I. (Gen. Site Address): Stewart Commow/Bennett Road, Orono ME 04469
C. S.T.I. (Lic. Plate #): [illegible]
D. Transporter's Phone: 978-486-1996
E. S.T.I. (Lic. Plate #):
F. Transporter's Phone:
G. State Facility's ID: 90 ROCHESTER NECK ROAD ROCHESTER NH 03839
H. Facility's Phone: 800-963-4776

5. Transporter 1 Company Name: ENPRO SERVICES, INC.
6. US EPA ID Number: MAD 9 8 0 6 7 0 0 0 4

7. Transporter 2 Company Name:
8. US EPA ID Number:

9. Designated Facility Name and Site Address
WASTE MANAGEMENT OF NH INC.
90 ROCHESTER NECK ROAD
ROCHESTER NH 03839
10. US EPA ID Number: D E S 9 9 W S P 9 5 0 0 1

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. NON DOT, NON RCRA REGULATED MATERIAL	001	CM	00016	T	State NONE / State NONE
b.					State / State
c.					State / State
d.					State / State

J. Additional Descriptions for Materials Listed Above
(S) soil w/trace PCB approval 4898778M - wgt is estimated
a. b.
c. d.

K. Handling Codes for Wastes Listed Above: Interim / Final / Interim / Final
a. b.
c. d.

15. Special Handling Instructions and Additional Information
1) (ENPRO PO 14326)
ENPRO SERVICES, INC. - 24 HOURS - (800) 966-1102
Point of Departure: ENPRO JOB# 6040-12

16. GENERATOR'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 national government regulations, and all applicable state laws and regulations.

GENERATOR: Printed/Typed Name: Thomas Sukeforth | Signature | Month Day Year: 04 18 12

TRANSPORTER:
17. Transporter 1 Acknowledgement of Receipt of Materials | Date
Printed/Typed Name: Mike Choiniere | Signature | Month Day Year: 04 18 12
18. Transporter 2 Acknowledgement of Receipt of Materials | Date
Printed/Typed Name | Signature | Month Day Year

FACILITY:
19. Discrepancy Indication Space
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in item 19. | Date
Printed/Typed Name: Philip Barrows | Signature | Month Day Year: 04 18 12

TRANSPORTER #1

www.enpro.com www.tsdf.com www.hazardouswaste.com

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4770

Reprint
Ticket# 602340

NHZ001 20597

6040-12

Customer Name ENPROSVCSINC Enpro Services,
Ticket Date 04/18/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest 20597
Destination
Generator ME-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier ENPRO ENPRO SERVICES
Vehicle# 1004 Volume
Container
Driver
Check#
Billing # 0000352
Gen EPA ID NOT REQUIRED
PO
Profile 489677NH (CONTAMINATED SOIL (DISPO

	Time	Scale	Operator	Inbound		
In	04/18/2012 15:36:30	scale 1 inbou	phil boisvert		Gross	64800 lb
Out	04/18/2012 16:02:40	scale 2 outbo	eric metzler		Tare	36900 lb
					Net	27900 lb
					Tons	13.95

Comments

	Product	LD%	Qty	UOM	Date	Fee	Amount	Origin
1	Cont Soil Met-Tons	100	13.95	Tons				ME
2	FUEL-Fuel Surcharg	100		%				ME
3	EVF-P-Standard Env	100		%				ME

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

'SART,S TRUCK STOP

COLDBROOK RDBANGOR ME 04401
180 207 9424878

6040-12

NH2001 20597

et No.: 54390
Date: 04/18/72

ID: 1004
Rate: Auto Weigh

$ 6.00

Steering Axle:	17200 lbs
Drive Axle:	24540 lbs
Trailer Axle:	22900 lbs
TOTAL:	64640 lbs

Certified Scales

ENPRO

1001

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MED060996451 — Manifest Document No.: 20595
2. Page 1 of 1

3. Generator's Name and Mailing Address: University of Maine Orono, 5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Annex, Orono ME 04469 — Attn: Carolyn McDonough
4. Generator's Phone (207) 581-4141

A. Non-Hazardous Manifest Document Number: NHZ001 20598
B. S.G.I. (Gen. Site Address): Stewart Commons/Gannett Road, Orono ME 04469
C. S.T.I. (Lic. Plate #): NH [illegible]
D. Transporter's Phone: 978-465-1595
E. S.T.I. (Lic. Plate #):
F. Transporter's Phone:
G. State Facility's ID: 90 ROCHESTER NECK ROAD, ROCHESTER NH 03839
H. Facility's Phone: 800-983-4776

5. Transporter 1 Company Name: ENPRO SERVICES, INC.
6. US EPA ID Number: MAD980670004
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: WASTE MANAGEMENT OF NH INC., 90 ROCHESTER NECK ROAD, ROCHESTER NH 03839
10. US EPA ID Number: DESSWSP95001

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON DOT, NON RCRA REGULATED MATERIAL	001	CM	00015	T	State NONE / State NONE
b.					State / State
c.					State / State
d.					State / State

J. Additional Descriptions for Materials Listed Above: (S) soil w/trace PCB approval 489677NH - wgt is estimated
a. b. c. d.

K. Handling Codes for Wastes Listed Above: Interim / Final — a. b. c. d.

15. Special Handling Instructions and Additional Information: ER CONTACT: ENPRO SERVICES, INC. - 24 HOURS - (800) 966-1102 1) (ENPRO PO 14326)

Point of Departure: ENPRO JOB# 6040-12

16. **GENERATOR'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 national government regulations, and all applicable state laws and regulations.

Printed/Typed Name: x Thomas P. Sullivan — Signature: x Thomas Sullivan — Month 05 Day 01 Year 12

17. Transporter 1 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: JOHN OHRT — Signature: [signature] — Month 05 Day 01 Year 12

18. Transporter 2 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. — Date
Printed/Typed Name: [signature] — Signature: [signature] — Month 05 Day 01 Year 12

GENERATOR / TRANSPORTER / FACILITY

TRANSPORTER #1

www.enpro.com www.tsdf.com www.hazardouswaste.com www.enpro.com www.hazardouswaste.com www.tsdf.com www.enpro.com www.hazardouswaste.com

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 884230

NH2001 20598

6040-12

Customer Name ENPROSVCSINC Enpro Services,
Ticket Date 05/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest # 20598
Destination
Generator ME-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier ENPRO ENPRO SERVICES
Vehicle# 1001 Volume
Container
Driver
Check#
Billing # 0000352
Gen EPA ID NOT REQUIRED
PO
Profile 489677NH (CONTAMINATED SOIL (DISPO

	Time	Scale	Operator	Inbound		
In	05/01/2012 13:33:13	scale 1 inbou	phil boisvert		Gross	69060 lb
Out	05/01/2012 14:29:45	scale 2 outbo	eric metzler		Tare	41360 lb
					Net	27700 lb
					Tons	13.85

Comments

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Net-Tons	100	13.85	Tons				ME
2	FUEL-Fuel Surcharg	100		%				ME
3	EVF-P-Standard Env	100		%				ME

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.

ENPRO

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MED060996451 — Manifest Document No.: 20618
2. Page 1 of 1

3. Generator's Name and Mailing Address: University of Maine Orono, 5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Annex, Orono ME 04469 — Attn: Carolyn McDonough
4. Generator's Phone (207) 581-4141

A. Non-Hazardous Manifest Document Number: NHZ001 20618
B. S.G.I. (Gen. Site Address): Stewart Commons/Gannett Road, Orono ME 04469
C. S.T.I. (Lic. Plate #): [illegible]
D. Transporter's Phone: 978-465-1595
E. S.T.I. (Lic. Plate #):
F. Transporter's Phone:
G. State Facility's ID: 90 ROCHESTER NECK ROAD, ROCHESTER NH 03839
H. Facility's Phone: 800-963-4775

5. Transporter 1 Company Name: ENPRO SERVICES, INC.
6. US EPA ID Number: MAD980670004
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: WASTE MANAGEMENT OF NH INC., 90 ROCHESTER NECK ROAD, ROCHESTER NH 03839
10. US EPA ID Number: DESSWSP95001

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON DOT, NON RCRA REGULATED MATERIAL	001	QM	00015	T	State NONE / State NONE
b.					State / State
c.					State / State
d.					State / State

J. Additional Descriptions for Materials Listed Above
a. (S) soil w/trace PCB approval 489677NH - wgt is estimated
b.
c.
d.

K. Handling Codes for Wastes Listed Above: Interim / Final — a. b. c. d.

15. Special Handling Instructions and Additional Information
ERCONTACT 1) (ENPRO PO 14326)
ENPRO SERVICES, INC. - 24 HOURS - (800) 966-1102
Point of Departure: ENPRO JOB# 6040-12

16. **GENERATOR'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 national government regulations, and all applicable state laws and regulations.

Printed/Typed Name: [signature] — Signature: [signature] — Month Day Year: 05 01 12

17. Transporter 1 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: JOHN CHRT — Signature: [signature] — Month Day Year: 05 01 12

18. Transporter 2 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: — Signature: — Month Day Year:

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. — Date
Printed/Typed Name: [signature] — Signature: [signature] — Month Day Year: 5 1 12

TRANSPORTER #1

www.enpro.com www.tsdf.com www.hazardouswaste.com www.enpro.com www.hazardouswaste.com www.enpro.com www.tsdf.com www.hazardouswaste.com

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 004232

NH200120618 6040-12

Customer Name EMPROSVCSINC Empro Services,
Ticket Date 05/01/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest 20618
Destination
Generator NE-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier ENPRO ENPRO SERVICES
Vehicle# 1004 Volume
Container
Driver
Check#
Billing # 0000352
Gen EPA ID NOT REQUIRED
PO
Profile 489677NN (CONTAMINATED SOIL (DISPO

	Time	Scale	Operator	Inbound		
In	05/01/2012 13:34:23	scale 1 inbou	phil boisvert		Gross	62780 lb
Out	05/01/2012 14:31:09	scale 2 outbo	eric setzler		Tare	35600 lb
					Net	27180 lb
					Ton%	13.59

Comments

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Net-Tons	100	13.59	Tons				ME
2	FUEL-Fuel Surcharg	100		%				ME
3	EVF-P-Standard Env	100		%				ME

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.

ENPRO

1001

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MED060996451 — Manifest Document No.: 20620
2. Page 1 of 1

3. Generator's Name and Mailing Address: Attn: Carolyn McDonough
University of Maine Orono
5701 College Ave. Safety & Env. Mgt Dept.- 5725 East Annex
Orono ME 04469

4. Generator's Phone (207) 581-4141

A. Non-Hazardous Manifest Document Number: NHZ001 20620

B. S.G.I. (Gen. Site Address): Stewart Commons/Gannett Road, Orono ME 04469

5. Transporter 1 Company Name: ENPRO SERVICES, INC.
6. US EPA ID Number: MAD980670004

C. S.T.I. (Lic. Plate #): [illegible]

D. Transporter's Phone: 978-465-1595

7. Transporter 2 Company Name:
8. US EPA ID Number:

E. S.T.I. (Lic. Plate #):

F. Transporter's Phone:

9. Designated Facility Name and Site Address: WASTE MANAGEMENT OF NH INC.
90 ROCHESTER NECK ROAD
ROCHESTER NH 03839

10. US EPA ID Number: DESSWSP95001

G. State Facility's ID: 90 ROCHESTER NECK ROAD ROCHESTER NH 03839

H. Facility's Phone: 800-963-4776

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. NON DOT, NON RCRA REGULATED MATERIAL	001	CM	00015	T	State NONE / State NONE
b.					State / State
c.					State / State
d.					State / State

J. Additional Descriptions for Materials Listed Above
a. (S) soil w/trace PCB approval 489677NH - wgt is estimated
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. Interim / Final
b. Interim / Final
c.
d.

15. Special Handling Instructions and Additional Information
ENPRO SERVICES, INC. - 24 HOURS - (800) 966-1102
1) (ENPRO PO 14326)

Point of Departure: ENPRO JOB# 6040-12

16. **GENERATOR'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 national government regulations, and all applicable state laws and regulations.

Printed/Typed Name: [signature] — Signature: [signature] — Month 05 Day 02 Year 12

17. Transporter 1 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name: John Ohr — Signature: [signature] — Month 05 Day 02 Year 12

18. Transporter 2 Acknowledgement of Receipt of Materials — Date

Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. — Date

Printed/Typed Name: [signature] — Signature: [signature] — Month 5 Day 2 Year 12

TRANSPORTER #1

www.enpro.com www.tsdf.com www.hazardouswaste.com www.enpro.com www.hazardouswaste.com www.tsdf.com www.hazardouswaste.com

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket#:004474

Customer Name ENPROSVCSINC Enpro Services,
Ticket Date 05/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest 20620
Destination
Generator NE-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier ENPRO ENPRO SERVICES
Vehicle# 1001 Volume
Container
Driver
Check#
Billing # 0000352
Gen EPA ID NOT REQUIRED
PO
Profile 489577NH (CONTAMINATED SOIL (01SP0

	Time	Scale	Operator	Inbound		
In	05/02/2012 13:20:52	scale 1 inbou	phil boisvert		Gross	74120 lb
Out	05/02/2012 14:19:47	scale 2 outbo	eric mallet		Tare	40820 lb
					Net	33300 lb
					Tons	16.65

Comments

	Product	LOX	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Net-Tons	100	16.65	Tons				NE
2	THEL-Fuel Surcharg	100		$				NE
3	ENF-P-Standard Env	100		$				NE

NH2001 20620

6040-12

RJ Ent.

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.

ENPRO

252203

1004

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MED060996451 — Manifest Document No.: 20621
2. Page 1 of 1

3. Generator's Name and Mailing Address: University of Maine Orono, 5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Annex, Orono ME 04469 — Attn: Carolyn McDonough
4. Generator's Phone (207) 581-4141

A. Non-Hazardous Manifest Document Number: NHZ001 20621
B. S.G.L. (Gen. Site Address): Stewart Commons/Gannett Road, Orono ME 04469
C. S.T.I. (Lic. Plate #): MA 64919
D. Transporter's Phone: 978-465-1595
E. S.T.I. (Lic. Plate #):
F. Transporter's Phone:
G. State Facility's ID: 90 ROCHESTER NECK ROAD, ROCHESTER NH 03839
H. Facility's Phone: 800-963-4776

5. Transporter 1 Company Name: ENPRO SERVICES, INC.
6. US EPA ID Number: MAD980670004
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: WASTE MANAGEMENT OF NH INC., 90 ROCHESTER NECK ROAD, ROCHESTER NH 03839
10. US EPA ID Number: DESSWSP95001

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON DOT, NON RCRA REGULATED MATERIAL	001	CM	00015	T	State NONE / State NONE
b.					State / State
c.					State / State
d.					State / State

J. Additional Descriptions for Materials Listed Above: (S) soil w/trace PCB approval 489677NH - wgt is estimated
a. b. c. d.

K. Handling Codes for Wastes Listed Above: Interim / Final — a. b. c. d.

15. Special Handling Instructions and Additional Information: ER CONTACT: ENPRO SERVICES, INC. - 24 HOURS - (800) 966-1102 1) (ENPRO PO 14326)

Point of Departure: ENPRO JOB# 6040-12

16. **GENERATOR'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 national government regulations, and all applicable state laws and regulations.

Printed/Typed Name: X [signature] — Signature: X [signature] — Month 05 Day 02 Year 12

17. Transporter 1 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: Allan Howard — Signature: Allan Howard — Month 05 Day 02 Year 12

18. Transporter 2 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. — Date
Printed/Typed Name: [signature] — Signature: [signature] — Month 5 Day 2 Year 12

TRANSPORTER #1

www.enpro.com www.tsdf.com www.hazardouswaste.com www.enpro.com

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 804476

Customer Name ENPROSVCSINC Enpro Services,
Ticket Date 05/02/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code Name
Manifest 20621
Destination
Generator NE-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier ENPRO ENPRO SERVICES
Vehicle# 1004 Volume
Container
Driver
Check#
Billing # 0000352
Gen EPA ID NOT REQUIRED
PO
Profile 4896/7NH (CONTAMINATED SOIL (DISPO

	Time	Scale	Operator	Inbound		
In	05/02/2012 13:21:41	scale 1 inbou	phil hatevert		Gross	60300 lb
Out	05/02/2012 14:09:22	scale 2 outbo	eric metsian		Tare	34700 lb
					Net	25600 lb
					Tons	12.94

Comments

	Product	LOC	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Net-Tons	100	12.94	Tons				ME
2	FUEL-Fuel Surcharg	100		%				ME
3	EUF-D-Standard Env	100		%				ME

NH2001 20621
6040-12
RJ Ent

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. IN THE BEST OF MY KNOWLEDGE THIS TRUCK CONTAINS NO HAZARDOUS OR UNACCEPTABLE WASTE.

Driver's Signature

405WM-Gonic.

ENPRO

1004

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MED006099645 Manifest Document No. 30637

2. Page 1 of 1

3. Generator's Name and Mailing Address
University of Maine Orono
5701 College Ave, Safety & Env. Mgt Dept - 5725 East Annex
Orono ME 04469
Attn: Carolyn McDonough

4. Generator's Phone (207) 581-4141

A. Non-Hazardous Manifest Document Number: NHZ001 20637

B. S.G.I. (Gen. Site Address): Stillwater Campus Gilman Road Orono ME 04469

5. Transporter 1 Company Name: ENPRO SERVICES, INC.

6. US EPA ID Number: MAD980670004

C. S.T.I. (Lic. Plate #): MA 63317

D. Transporter's Phone: 978-465-1595

7. Transporter 2 Company Name

8. US EPA ID Number

E. S.T.I. (Lic. Plate #)

F. Transporter's Phone

9. Designated Facility Name and Site Address
WASTE MANAGEMENT OF NH INC.
90 ROCHESTER NECK ROAD
ROCHESTER NH 03839

10. US EPA ID Number: QES SWS P950011

G. State Facility's ID: 90 ROCHESTER NECK ROAD ROCHESTER NH 03839

H. Facility's Phone: 800-634-7776

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON DOT, NON RCRA REGULATED MATERIAL	001	CM	0000	LG T	State NONE State NONE
b.					State State
c.					State State
d.					State State

J. Additional Descriptions for Materials Listed Above
(S) soil w/trace PCB (Aroclor 4506/7)NH - wgt is estimated
a. b.
c. d.

K. Handling Codes for Wastes Listed Above
Interim Final Interim Final
a. b.
c. d.

15. Special Handling Instructions and Additional Information
ENPRO SERVICES, INC. - 24 HOURS - (800) 968-1102
1) (ENPRO PO 14325)

Point of Departure: ENPRO JOB# 6040-12

16. **GENERATOR'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 national government regulations, and all applicable state laws and regulations.

GENERATOR

Printed/Typed Name: Ron Sulatch
Signature
Month Day Year: 05 19 12

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Date
Printed/Typed Name: Mike Chevrier
Signature
Month Day Year: 05 19 12

18. Transporter 2 Acknowledgement of Receipt of Materials
Date
Printed/Typed Name
Signature
Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19.
Date
Printed/Typed Name
Signature
Month Day Year: 5 15 12

TRANSPORTER #1

www.enpro.com www.hazardouswaste.com www.tsdf.com

WASTE MANAGEMENT

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 806499

6040-12 NH2001 20637

Customer Name ENPROSVCSINC Enpro Services,
Ticket Date 05/15/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest 20637
Destination
Generator NE-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier ENPRO ENPRO SERVICES
Vehicle# 1004 Volume
Container
Driver
Check#
Billing # 0000352
Gen EPA ID NOT REQUIRED
PO
Profile 489677NH (CONTAMINATED SOIL (DISPO

	Time	Scale	Operator	Inbound		
In	05/15/2012 13:16:56	scale 1 inbou	phil boisvert		Gross	59680 lb
Out	05/15/2012 14:17:15	scale 2 outbo	eric weisler		Tare	35900 lb
					Net	23780 lb
					Tons	11.89

Comments

WASTE MANAGEMENT

	Product	LD%	Qty	UOM	Rate	Fee	Amount	Origin
1	Cont Soil Met-Tons	100	11.89	Tons				NE
2	FUEL-Fuel Surcharg	100		%				
3	FUF-D-Standard Env	100		%				

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-Gopic

Can # 25220
1004

ENPRO

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: MED060996451 — Manifest Document No.: 20660
2. Page 1 of 1

3. Generator's Name and Mailing Address: University of Maine Orono, 5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Annex, Orono ME 04469 — Attn: Carolyn McDonough
4. Generator's Phone (207) 581-4141

A. Non-Hazardous Manifest Document Number: NHZ001 20660
B. S.G.I. (Gen. Site Address): Stewart Commons/Gannett Road, Orono ME 04469
C. S.T.I. (Lic. Plate #): NH 64917
D. Transporter's Phone: 978-465-1595
E. S.T.I. (Lic. Plate #):
F. Transporter's Phone:
G. State Facility's ID: 90 ROCHESTER NECK ROAD, ROCHESTER NH 03839
H. Facility's Phone: 800-963-4778

5. Transporter 1 Company Name: ENPRO SERVICES, INC.
6. US EPA ID Number: MAD980670004
7. Transporter 2 Company Name:
8. US EPA ID Number:
9. Designated Facility Name and Site Address: WASTE MANAGEMENT OF NH INC., 90 ROCHESTER NECK ROAD, ROCHESTER NH 03839
10. US EPA ID Number: DESSWSP95001

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. NON DOT, NON RCRA REGULATED MATERIAL	001	CM	99915	T	State NONE / State NONE
b.					State / State
c.					State / State
d.					State / State

J. Additional Descriptions for Materials Listed Above: (S) soil w/trace PCB approval 489677NH - wgt is estimated
a. b. c. d.

K. Handling Codes for Wastes Listed Above: Interim / Final — a. b. c. d.

15. Special Handling Instructions and Additional Information: ERS CONTACT 1) (ENPRO PO 14326) ENPRO SERVICES, INC. - 24 HOURS - (800) 966-1102

18.81 Ton

Point of Departure: ENPRO JOB# 6040-12

16. **GENERATOR'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 national government regulations, and all applicable state laws and regulations.

Printed/Typed Name: x [signature] — Signature: [signature] — Month 05 Day 24 Year 10

17. Transporter 1 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: [signature] TOWN CART — Signature: [signature] — Month 05 Day 24 Year 10

18. Transporter 2 Acknowledgement of Receipt of Materials — Date
Printed/Typed Name: — Signature: — Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. — Date
Printed/Typed Name: [signature] — Signature: [signature] — Month 05 Day 24 Year 10

TRANSPORTER #1

www.enpro.com www.tsdf.com www.hazardouswaste.com www.enpro.com www.hazardouswaste.com www.tsdf.com www.hazardouswaste.com www.enpro.com

Turnkey Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Ph: (800) 963-4776

Original
Ticket# 000027

NH2001 20660 6040-12

Customer Name ENPROSVCSINC Enpro Services,
Ticket Date 05/24/2012
Payment Type Credit Account
Manual Ticket#
Hauling Ticket#
Route
State Waste Code None
Manifest 20660
Destination
Generator NE-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier EMPRO ENPRO SERVICES
Vehicle# 1004 Volume
Container
Driver
Check#
Billing # 0000352
Gen EPA ID NOT REQUIRED
PO
Profile 489677NH (CONTAMINATED SOIL (DISPO

	Time	Scale	Operator	Inbound	Gross	72160 lb
In	05/24/2012 13:52:57	scale 1 inbou	eric wetzler		Tare	34540 lb
Out	05/24/2012 14:33:10	scale 2 outbo	phil boisvert		Net	37620 lb
					Tons	18.81

Comments

	Product	LD%	Qty	UOM	Rate	Fees	Amount	Origin
1	Cont Soil Met-Tons	100	18.81	Tons				ME
2	FUEL-Fuel Surcharg	100		%				ME
3	ENF-P-Standard Env	100		%				ME

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.

ENPRO

1001 SC

NON HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. MED060996451 Manifest Document No. 20685

2. Page 1 of 1

3. Generator's Name and Mailing Address
University of Maine Orono
5701 College Ave, Safety & Env. Mgt Dept.- 5725 East Annex
Orono ME 04469
Attn: Carolyn McDonough

4. Generator's Phone (207) 581-4141

A. Non Hazardous Manifest Document Number NHZ001 20685

B. S.G.I. (Gen. Site Address) Stewart Commons Cement Road Orono ME 04469

C. S.T.I. (Lic. Plate #) [illegible]

D. Transporter's Phone 978-425-1590

5. Transporter 1 Company Name ENPRO SERVICES, INC.

6. US EPA ID Number MAD980670004

7. Transporter 2 Company Name

8. US EPA ID Number

E. S.T.I. (Lic. Plate #)

F. Transporter's Phone

9. Designated Facility Name and Site Address
WASTE MANAGEMENT OF NH INC.
90 ROCHESTER NECK ROAD
ROCHESTER, NH 03839

10. US EPA ID Number DESSWSP9501

G. State Facility's ID 90 ROCHESTER NECK ROAD ROCHESTER NH 03839

H. Facility's Phone 800-[illegible]

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No
a. NON DOT, NON RCRA REGULATED MATERIAL	001	CM	00010	T	State NONE State NONE
b.					State State
c.					State State
d.					State State

J. Additional Descriptions for Materials Listed Above
(S) soil w/trace PCB approval 489077NH - wgt is estimated
a. b. c. d.

K. Handling Codes for Wastes Listed Above
a. Interim Final b. Interim Final
c. d.

15. Special Handling Instructions and Additional Information
EMERGENCY 1) (ENPRO PO 14326)
ENPRO SERVICES, INC. - 24 HOURS - (800) 966-1102
Point of Departure: ENPRO JOB# 6040-12

16. **GENERATOR'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 national government regulations, and all applicable state laws and regulations.

GENERATOR

Printed/Typed Name: Tom Salutath | Signature: Thomas M Salutath | Month Day Year: 05 19 18

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name: TOM CHRIST | Signature | Month Day Year: 05 19 18

18. Transporter 2 Acknowledgement of Receipt of Materials | Date

Printed/Typed Name | Signature | Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19. | Date

Printed/Typed Name: Phillip Burns | Signature | Month Day Year

TRANSPORTER #1

www.enpro.com www.tsdf.com www.hazardouswaste.com

WASTE MANAGEMENT

Turnley Landfill
30 Rochester Neck Rd
Rochester, NH, 03839
Phone (800) 963 4776

Original
Ticket# 000448

6040-12

SC

Customer Name ENPRO/CVCSINC Enpro Services,
Ticket Date 05/29/2012
Payment Type Credit Account
Manual Ticket#
Housing Ticket#
Source
State Waste Code None
Offset 20665
Destination
Generator NE-UNIVERSITYOF MAINE UNIVERSITY OF MAINE

Carrier ENPRO ENPRO SERVICES
Vehicle# 1001 Volume
Container
Driver
Check#
Billing # 0000352
Gen EPA ID NOT REQUIRED
PO
Profile 489677NH (CONTAMINATED SOIL (DISPO

Time	Scale	Operator	Inbound		
In 05/29/2012 12:43:48	scale 1 inbou	phil boisvert		Gross	58100 lb
Out 05/29/2012 13:37:57	scale 2 outbo	eric metzler		Tare	41820 lb
				Net	16280 lb
				Tons	8.14

Comments

Product	LOS	Qty	UOM	Rate	Fee	Amount	Origin
1 Cont Soil Met Tons	100	8.14	Tons				ME
2 FUEL-Fuel Surcharg	100		%				ME
3 EVF-P-Standard Env	100		%				ME

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.

APPENDIX D: AIR MONITORING LOGS

APPENDIX D
Perimeter Air Monitoring Data
Former Stewart Commons Dining Hall - University of Maine, Orono

Date	Time	Activity	Air Sampling Location										
			Bkgd 1	Bkgd 2	Bkgd Avg	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
1/30/12	14:15	Staging setup, SW façade	0.002	-	0.002	0.004	-	-	0.003	0.005	-	-	0.004
	15:30		0.004	-	0.004	0.003	-	-	0.005	0.002	-	-	0.001
1/31/12	9:30	Decon work, SW façade	0.005	-	0.005	0.005	-	-	0.004	0.005	-	-	0.006
	10:45		0.009	0.013	0.011	0.006	-	-	0.005	0.004	-	-	0.005
	11:40		0.003	0.001	0.002	0.004	-	-	0.004	0.003	-	-	0.004
	12:50		0.000	0.001	0.001	0.001	-	-	0.004	0.003	-	-	0.003
	13:20		0.009	0.006	0.008	0.007	-	-	0.012	0.006	0.010	0.009	0.008
2/1/12	9:45	Decon work, SW façade and southern entrance containment setup	0.008	0.006	0.007	0.010	-	-	0.008	0.007	0.009	0.006	0.007
	12:00		0.008	0.009	0.009	0.009	-	-	0.008	0.006	0.007	0.010	0.007
	14:00		0.008	0.009	0.009	0.011	-	-	0.008	0.008	0.010	0.011	0.009
	16:15		0.008	0.008	0.008	0.008	-	-	0.007	0.011	0.010	0.015	0.009
2/2/12	8:40	Decon work, SW façade and southern/northeast entrance containment setup	0.006	0.006	0.006	0.007	-	-	0.006	0.007	0.006	0.008	0.009
	9:50		0.004	0.004	0.004	0.011	-	-	0.006	0.007	0.004	0.014	0.012
	11:15		0.005	0.005	0.005	0.007	-	-	0.006	0.009	0.006	0.007	0.007
	12:20		0.007	0.007	0.007	0.008	-	-	0.006	0.008	0.005	0.009	0.009
	13:30		0.010	0.004	0.007	0.009	-	-	0.007	0.010	0.004	0.010	0.014
	14:45		0.009	0.005	0.007	0.008	-	-	0.008	0.006	0.008	0.011	0.010
2/6/12	14:15	Decon work, south center entrance, northeast entrance containment setup	0.011	0.009	0.010	0.012	-	-	0.010	0.009	0.005	0.007	0.009
	15:45		0.009	0.010	0.010	0.009	-	-	0.009	0.008	0.007	0.008	0.009
	16:50		0.009	0.009	0.009	0.008	-	-	0.008	0.006	0.006	0.009	0.010
2/7/12	11:35	Decon work, south center entrance, northeast entrance containment setup	0.005	0.003	0.004	0.003	0.005	0.005	0.004	0.006	0.004	0.003	0.005
	12:45		0.004	0.005	0.005	0.004	0.000	0.004	0.003	0.002	0.005	0.006	0.006
	13:30		0.004	0.005	0.005	0.005	0.003	0.002	0.003	0.004	0.004	0.004	0.005
2/8/12	14:10	Decon work, south center entrance, northeast entrance containment setup	0.006	0.029	0.018	0.012	0.009	0.011	0.013	0.017	0.015	0.011	0.013
	15:15		0.006	0.013	0.010	0.013	0.010	0.010	0.011	0.013	0.019	0.016	0.012
2/9/12	10:30	Decon work, south center entrance, northeast entrance containment setup	0.007	0.009	0.008	0.012	0.014	0.008	0.011	0.012	0.007	0.009	0.011
	11:30		0.008	0.009	0.009	0.005	0.009	0.009	0.006	0.006	0.010	0.007	0.008
	12:45		0.009	0.010	0.010	0.008	0.008	0.008	0.009	0.010	0.009	0.007	0.012
2/13/12	10:50	SE and SW entrance containment setup	0.009	0.008	0.009	0.009	0.009	0.010	0.009	0.008	0.008	0.010	0.008
	12:00		0.005	0.005	0.005	0.007	0.006	0.006	0.004	0.007	0.008	0.004	0.029
	13:00		0.005	0.017	0.011	0.006	0.007	0.006	0.006	0.010	0.005	0.007	0.008
	14:30		0.006	0.008	0.007	0.007	0.007	0.008	0.008	0.007	0.008	0.009	0.012

APPENDIX D
Perimeter Air Monitoring Data
Former Stewart Commons Dining Hall - University of Maine, Orono

Date	Time	Activity	Air Sampling Location										
			Bkgd 1	Bkgd 2	Bkgd Avg	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
2/14/12	10:10	SE and SW entrance decon	0.017	0.022	0.020	0.016	0.018	0.012	0.021	0.015	0.016	0.018	0.031
	11:30		0.013	0.012	0.013	0.006	0.008	0.008	0.019	0.012	0.011	0.007	0.010
	13:00		0.007	0.008	0.008	0.006	0.009	0.006	0.006	0.011	0.008	0.007	0.007
	14:15		0.008	0.010	0.009	0.006	0.008	0.007	0.008	0.006	0.009	0.008	0.009
2/15/12	11:30	SE and SW entrance decon	0.016	0.018	0.017	0.019	0.017	0.019	0.022	0.019	0.019	0.014	0.016
	13:15		0.018	0.022	0.020	0.041	0.024	0.019	0.020	0.018	0.017	0.020	0.014
	15:00		0.013	0.008	0.011	0.011	0.019	0.013	0.010	0.009	0.013	0.011	0.012
2/16/12	8:00	SE and SW entrance decon and granite panel removal	0.023	0.026	0.025	0.031	0.029	0.027	0.028	0.025	0.029	0.028	0.028
	9:20		0.020	0.019	0.020	0.025	0.020	0.019	0.024	0.026	0.019	0.018	0.018
	11:30		0.018	0.015	0.017	0.018	0.018	0.020	0.041	0.023	0.021	0.011	0.014
2/27/12	10:30	SW façade containment setup	0.004	0.003	0.004	0.006	0.005	0.006	0.008	0.006	0.006	0.005	0.006
	11:50		0.006	0.003	0.005	0.006	0.008	0.007	0.009	0.005	0.004	0.007	0.006
	13:20		0.011	0.005	0.008	0.008	0.006	0.003	0.006	0.005	0.009	0.008	0.009
2/28/12	10:15	SW façade containment setup	0.006	0.005	0.006	0.008	0.006	0.006	0.008	0.005	0.006	0.009	0.007
	11:30		0.008	0.008	0.008	0.008	0.008	0.006	0.009	0.009	0.008	0.008	0.010
	12:45		0.012	0.014	0.013	0.011	0.011	0.010	0.011	0.012	0.015	0.013	0.012
2/29/12	10:15	Sandblasting west façade	0.018	0.012	0.015	0.017	0.012	0.013	0.015	0.017	0.019	0.023	0.019
	11:30		0.014	0.009	0.012	0.095	0.087	0.015	0.013	0.013	0.014	0.009	0.020
	13:10		0.010	0.010	0.010	0.011	0.014	0.009	0.012	0.009	0.009	0.014	0.017
	14:45		0.012	0.011	0.012	0.014	0.012	0.011	0.013	0.014	0.017	0.010	0.015
3/5/12	11:40	Sandblasting west façade	0.018	0.015	0.017	0.021	0.019	0.023	0.020	0.037	0.031	0.034	0.041
	13:30		0.024	0.021	0.023	0.019	0.022	0.020	0.018	0.039	0.064	0.033	0.052
	14:30		0.019	0.018	0.019	0.019	0.022	0.019	0.018	0.038	0.031	0.080	0.018
	15:30		0.022	0.022	0.022	0.018	0.023	0.021	0.021	0.043	0.052	0.067	0.021
3/6/12	11:00	Sandblasting west façade	0.025	0.019	0.022	0.031	0.033	0.022	0.027	0.049	0.054	0.055	0.018
	12:10		0.021	0.081	0.051	0.016	0.019	0.047	0.025	0.022	0.020	0.018	0.020
	13:10		0.022	0.032	0.027	0.024	0.037	0.020	0.018	0.029	0.069	0.037	0.036
	14:00		0.021	0.044	0.033	0.026	0.031	0.039	0.029	0.036	0.072	0.043	0.039
	15:10		0.015	0.016	0.016	0.021	0.022	0.018	0.019	0.017	0.029	0.026	0.021
3/7/12	7:00	Sandblasting west façade	0.029	0.032	0.031	0.047	0.033	0.043	0.036	0.030	0.025	0.057	0.025
	8:10		0.028	0.031	0.030	0.039	0.030	0.041	0.032	0.027	0.029	0.043	0.039

APPENDIX D
Perimeter Air Monitoring Data
Former Stewart Commons Dining Hall - University of Maine, Orono

Date	Time	Activity	Air Sampling Location										
			Bkgd 1	Bkgd 2	Bkgd Avg	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
3/8/12	7:00	Sandblasting west façade, SE corner and SW corner	0.025	0.030	0.028	0.026	0.024	0.026	0.032	0.023	0.027	0.022	0.028
	8:00		0.017	0.032	0.025	0.023	0.020	0.021	0.027	0.023	0.021	0.021	0.034
	8:50		0.019	0.024	0.022	0.021	0.002	0.023	0.037	0.026	0.024	0.021	0.028
	10:00		0.022	0.026	0.024	0.024	0.021	0.021	0.026	0.022	0.019	0.023	0.021
	10:50		0.017	0.028	0.023	0.021	0.022	0.020	0.017	0.027	0.024	0.023	0.027
3/12/12	10:30	Sandblasting west façade, SE corner and SW corner	0.025	0.036	0.031	0.028	0.026	0.029	0.017	0.024	0.018	0.014	0.017
	11:45		0.017	0.032	0.025	0.019	0.018	0.014	0.021	0.021	0.015	0.019	0.018
	13:10		0.026	0.046	0.036	0.022	0.030	0.025	0.012	0.014	0.013	0.016	0.014
	14:15		0.011	0.022	0.017	0.015	0.018	0.012	0.013	0.014	0.012	0.012	0.023
	15:45		0.012	0.062	0.037	0.016	0.012	0.013	0.013	0.016	0.021	0.013	0.022
3/13/12	11:10	West containment teardown	0.026	0.032	0.029	0.016	0.023	0.021	0.018	0.021	0.018	0.016	0.024
	12:45		0.031	0.038	0.035	0.034	0.032	0.042	0.052	0.052	0.028	0.032	0.029
	13:45		0.038	0.037	0.038	0.049	0.046	0.034	0.031	0.031	0.040	0.036	0.044
	14:50		0.029	0.031	0.030	0.026	0.031	0.033	0.038	0.029	0.029	0.031	0.028
3/15/12	11:50	SE & SW entrance block removal	0.020	0.021	0.021	0.021	0.020	0.023	0.021	0.020	0.021	0.020	0.021
	13:10		0.019	0.021	0.020	0.020	0.019	0.019	0.019	0.021	0.018	0.020	0.021
	14:20		0.018	0.020	0.019	0.022	0.020	0.020	0.019	0.019	0.019	0.020	0.019
	15:20		0.019	0.020	0.020	0.020	0.022	0.022	0.021	0.019	0.021	0.022	0.021
3/19/12	13:15	East façade containment setup	0.017	0.033	0.025	0.017	0.019	0.019	0.018	0.021	0.019	0.024	0.024
	14:30		0.019	0.026	0.023	0.020	0.018	0.021	0.019	0.019	0.021	0.020	0.020
3/20/12	11:30	East façade containment setup	0.032	0.073	0.053	0.028	0.027	0.028	0.029	0.038	0.022	0.026	0.026
	13:15		0.032	0.028	0.030	0.036	0.034	0.031	0.044	0.031	0.030	0.029	0.030
	14:20		0.031	0.035	0.033	0.027	0.031	0.032	0.034	0.041	0.031	0.034	0.051
3/21/12	9:30	East façade containment setup	0.043	0.055	0.049	0.039	0.038	0.037	0.041	0.040	0.038	0.041	0.044
	10:40		0.046	0.065	0.056	0.026	0.031	0.030	0.027	0.026	0.031	0.027	0.023
	11:45		0.042	0.051	0.047	0.031	0.028	0.029	0.033	0.036	0.034	0.030	0.034
3/22/12	13:00	East façade containment setup	0.043	0.032	0.038	0.020	0.023	0.033	0.028	0.029	0.031	0.018	0.024
	13:50		0.036	0.049	0.043	0.024	0.023	0.020	0.024	0.026	0.024	0.022	0.021
3/26/12	11:15	East façade containment setup, sandblasting granite panels	0.050	0.025	0.038	0.022	0.021	0.022	0.027	0.046	0.040	0.022	0.021

APPENDIX D
Perimeter Air Monitoring Data
Former Stewart Commons Dining Hall - University of Maine, Orono

Date	Time	Activity	Air Sampling Location										
			Bkgd 1	Bkgd 2	Bkgd Avg	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
3/27/12	13:15	East façade containment setup, sandblasting granite panels	0.020	0.189	0.105	0.065	0.049	0.048	0.051	0.029	0.029	0.026	0.029
	14:15		0.047	0.093	0.070	0.041	0.035	0.024	0.022	0.024	0.024	0.031	0.029
	15:30		0.031	0.037	0.034	0.047	0.087	0.102	0.077	0.028	0.028	0.028	0.031
3/28/12	11:10	East façade containment setup, sandblasting granite panels	0.036	0.030	0.033	0.022	0.025	0.029	0.023	0.022	0.021	0.026	0.025
	12:00		0.031	0.040	0.036	0.044	0.034	0.038	0.037	0.042	0.028	0.024	0.022
	13:10		0.035	0.037	0.036	0.037	0.032	0.034	0.036	0.028	0.031	0.023	0.035
3/29/12	8:30	East façade containment setup, sandblasting granite panels	0.022	0.019	0.021	0.043	0.037	0.024	0.022	0.030	0.031	0.028	0.029
	9:30		0.025	0.021	0.023	0.029	0.032	0.042	0.044	0.041	0.028	0.034	0.032
	10:30		0.047	0.019	0.033	0.020	0.027	0.030	0.031	0.035	0.027	0.022	0.025
4/2/12	10:45	Sandblasting east façade, west façade soil removal	0.019	0.021	0.020	0.023	0.020	0.022	0.020	0.028	0.021	0.021	0.019
	11:45		0.022	0.043	0.033	0.031	0.036	0.028	0.034	0.027	0.020	0.019	0.032
	13:30		0.024	0.026	0.025	0.024	0.032	0.031	0.034	0.022	0.021	0.022	0.022
	14:45		0.034	0.031	0.033	0.027	0.029	0.026	0.031	0.020	0.035	0.023	0.022
	15:50		0.025	0.022	0.024	0.024	0.022	0.029	0.028	0.037	0.023	0.027	0.023
4/3/12	7:30	Sandblasting east façade, west façade soil removal	0.023	0.028	0.026	0.022	0.022	0.023	0.039	0.028	0.027	0.024	0.026
	8:30		0.024	0.047	0.036	0.026	0.031	0.039	0.031	0.025	0.033	0.036	0.029
	9:30		0.027	0.035	0.031	0.028	0.035	0.047	0.044	0.028	0.030	0.044	0.027
	13:15		0.029	0.020	0.025	0.030	0.033	0.052	0.029	0.035	0.025	0.024	0.017
	14:15		0.028	0.023	0.026	0.049	0.034	0.042	0.053	0.038	0.031	0.029	0.036
	15:30		0.022	0.020	0.021	0.041	0.032	0.030	0.065	0.021	0.033	0.032	0.031
4/4/12	11:35	East façade sandblasting	0.034	0.031	0.033	0.024	0.027	0.023	0.024	0.036	0.041	0.040	0.029
	13:30		0.025	0.022	0.024	0.029	0.027	0.024	0.026	0.048	0.055	0.062	0.034
4/5/12	9:00	East façade sandblasting	0.032	0.030	0.031	0.036	0.041	0.043	0.028	0.025	0.031	0.027	0.028
	9:55		0.029	0.065	0.047	0.042	0.033	0.037	0.035	0.025	0.030	0.035	0.023
4/9/12	10:20	East façade sandblasting	0.032	0.030	0.031	0.032	0.034	0.032	0.035	0.040	0.039	0.039	0.038
	11:30		0.034	0.032	0.033	0.028	0.033	0.040	0.037	0.033	0.045	0.045	0.033
4/10/12	9:30	East façade sandblasting	0.046	0.034	0.040	0.032	0.034	0.036	0.037	0.042	0.037	0.044	0.040
	10:30		0.031	0.033	0.032	0.031	0.032	0.028	0.030	0.031	0.031	0.035	0.034
	11:20		0.043	0.042	0.043	0.030	0.031	0.028	0.030	0.025	0.041	0.037	0.045
4/11/12	11:45	East façade sandblasting	0.030	0.034	0.032	0.034	0.037	0.033	0.028	0.032	0.030	0.031	0.032
	13:30		0.043	0.025	0.034	0.031	0.035	0.034	0.032	0.038	0.033	0.031	0.028
4/12/12	11:30	East façade sandblasting	0.050	0.031	0.041	0.036	0.039	0.047	0.032	-	-	-	-
	13:30		0.040	0.036	0.038	0.036	0.032	0.041	0.045	-	-	-	-

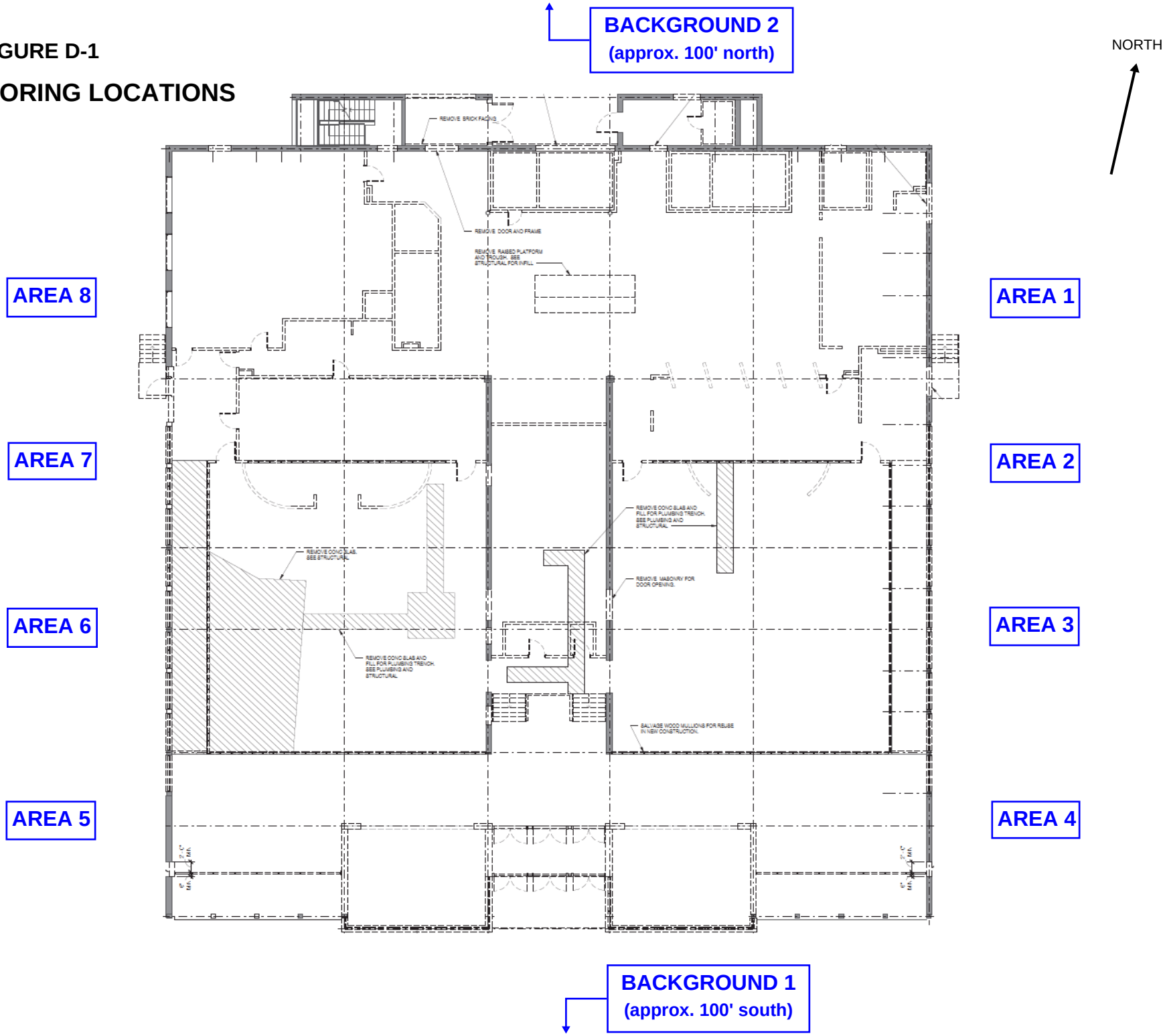
APPENDIX D
Perimeter Air Monitoring Data
Former Stewart Commons Dining Hall - University of Maine, Orono

Date	Time	Activity	Air Sampling Location										
			Bkgd 1	Bkgd 2	Bkgd Avg	Area 1	Area 2	Area 3	Area 4	Area 5	Area 6	Area 7	Area 8
4/30/12	8:00	East façade excavation	0.029	0.041	0.035	0.031	0.037	0.036	0.039	-	-	-	-
	9:00		0.035	0.037	0.036	0.051	0.042	0.047	0.049	-	-	-	-
	10:00		0.039	0.035	0.037	0.042	0.044	0.039	0.050	-	-	-	-
	11:00		0.037	0.041	0.039	0.039	0.035	0.042	0.046	-	-	-	-
5/2/12	14:00	North façade <50 caulking removal	0.028	0.031	0.030	0.026	0.022	0.027	0.030	-	-	-	-

Note:
Readings collected over 30-second intervals at each location using a Thermo MIE Personal Data RAM Model PDR-1000 monitor.

FIGURE D-1

AIR MONITORING LOCATIONS



APPENDIX E: DATA VALIDATION SUMMARIES

UMAINE STEWART COMMONS - PROJECT SUMMARY

Analytics Environmental Laboratory Job Numbers: 72071, 72132, 72199, 72234, 72281, 72282, 72373, 72502, 72503, & 72584

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 0.7, 1.5, 1.6, 1.7, 1.8, 2.1, 3.3, 3.8, 4.9, 5, 6.0, and 8.0 degrees Celsius. Although some samples were received at less than 2.0 degrees Celsius that were not frozen and no qualifications will be applied. Some samples were received above 6.0 degrees Celsius. Since the samples were only slightly above 6.0 degrees Celsius, 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 or were diluted out with the following exceptions. The recoveries for tetrachloro-m-xylene (TCX) on column 1 in samples UMSC-VWM-171 (72281-1), UMSC-VWM-179 (72281-4), and UMSC-VBS-207 (72502-1) or decachlorobiphenyl (DCB) on column 1 in samples UMSC-VBS-140 (72132-1), UMSC-VBS-141 (72132-2), UMSC-VBS-142 (72132-3), UMSC-VBS-143 (72132-4), UMSC-VBS-144 (72132-5), UMSC-VBS-145 (72132-6), UMSC-VBS-146 (72132-7), UMSC-VBS-156 (72199-8), and UMSC-VBS-165 (72199-11) were not calculated due to matrix interference. 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 UMSC-VBA-151 (72132-18), UMSC-VWM-139 (72132-32), UMSC-VWG-206 (72503-6), UMSC-VBC-220 (72503-10), and UMSC-VWM-250 (72584-28) were ND for all target analytes. No qualifications will be applied.

The PCB matrix spike/matrix spike duplicate (MS/MSD) performed on samples UMSC-CBK-121 (72071-1), UMSC-VBS-140 (72132-1), and UMSC-VBS-211 (72502-5) met recovery and relative percent difference (RPD) acceptance criteria (PCB-1016 60-140%/30%, PCB1260 60-130%/30%) with the following exceptions:

LAB ID	SAMPLE ID	PCB-1016 (%) MS/MS/MSD/MSD	PCB-1260 (%) MS/MS/MSD/MSD	QUALIFIER
72071-1*	UMSC-CBK-121	OK/OK/OK/OK	5826/1159/4143/3439	J/UJ, All PCBs due to high MS/MSD RPDs
72502-5**	UMSC-VBS-211	OK/OK/OK/170	OK/163/147/OK	J/UJ, All PCBs due to high MS/MSD RPDs

*The RPDs for PCB-1016 (36.7%/36.3%) and PCB-1260 (42.7%/35.7%) exceeded acceptance criteria (<30%).
**The RPDs for PCB-1016 (OK%/36.4%) and PCB-1260 (OK/39.5%) exceeded acceptance criteria (<30%).

PCB field duplicate samples UMSC-VBS-141 (72132-2)/UMSC-VBS-150 (72132-17), UMSC-VBC-124 (72132-13)/UMSC-VBC-161 (72199-9), UMSC-VWG-202 (72503-2)/UMSC-VWG-205 (72503-5), UMSC-VWM-217 (72503-7)/UMSC-VWM-218 (72503-8), and UMSC-VWM-238 (72584-10)/UMSC-VWM-249 (72584-27) 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 exception:

LAB ID	SAMPLE ID	PCB	RPD	QUALIFIER
72502-5	UMSC-VBS-211	1254	35.4	J

Many samples were analyzed at dilutions 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.

Analytics Environmental Laboratory Job Numbers: 72071, 72132, 72199, 72234, 72281, 72282, 72373, 72502, 72503, & 72584

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Gloria J. Switalski:
President

Date: 5/10/2012

UMAINE STEWART COMMONS - PROJECT SUMMARY

Analytics Environmental Laboratory Job Numbers: 72695, 72745, 72806, & 72838

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 2.3, 3.3, 13.3, and 18.7 degrees Celsius. Some samples were received above 6.0 degrees Celsius. Detected and non-detected results in analytical packages 72695 and 72838 were estimated (J/UJ) since temperature criteria were not met.

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 with the following exceptions. The recoveries for tetrachloro-m-xylene (TCX) on column 1 and 2 in sample UMSC-VWG-270 (72806-2) and on column 2 in sample UMSC-VBS-271 (72838-1) were not calculated due to matrix interference (qualified "I" by the laboratory). No qualifications will be applied.

The PCB method blanks were non-detect (ND) for all target analytes. No qualifications will be applied.

No PCB field blank samples were submitted with these analytical packages. No qualifications will be applied.

The PCB matrix spike/matrix spike duplicate (MS/MSD) performed on samples UMSC-VBS-254 (72745-2) and UMSC-VBS-271 (72838-1) met recovery and relative percent difference (RPD) acceptance criteria. No qualifications will be applied.

The PCB laboratory control samples/laboratory control sample duplicates (LCS/LCSD) met recovery and RPD acceptance criteria with the following exception. The RPD value for PCB-1260 (36.8%) for one LCS/LCSD on column 1 failed acceptance criteria (≤35%). No qualifications are applied on LCS/LCSD RPD alone and the RPD on column 2 was acceptable.

No PCB field duplicate samples were submitted with these analytical packages. No qualifications will be applied.

The RPD between the column results for all detected PCBs met acceptance criteria. No qualifications will be applied.

Some samples were analyzed at dilutions 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.

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Project # 222822