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CONTRACT TASK ORDER NO. 0108

FINAL RCRA CLOSURE DOCUMENTATION AND CERTIFICATION REPORT FOR BUILDING A-85 CONTAINER STORAGE AREA U.S. NAVAL SUBMARINE BASE NEW LONDON (SUBASENLON) GROTON, CONNECTICUT

September 13, 2005

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LIST OF ACRONYMS

CFR	Code of Federal Regulations
COC	Chain of Custody
CSA	Container Storage Area
CSO	Caretaker Site Office
CTDEP	Connecticut Department of Environmental Protection
CY	cubic yards
FAR	Federal Acquisition Regulation
IRP	Installation Restoration Program
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NorthDiv	Northern Division
NTR	Naval Technical Representative
OSWER	Office of Solid Waste and Emergency Response
PAH	Polynuclear Aromatic Hydrocarbon
PMO	Program Management Office
PPE	Personal Protective Equipment
ppm	parts per million
PQCM	Program Quality Control Manager
QA	Quality Assurance
QC	Quality Control
RAC	Remedial Action Contract
RCRA	Resource Conservation Recovery Act
RCSA	Regulations of Connecticut State Agencies
ROICC	Resident Officer In Charge of Construction
SHSP	Site Health and Safety Plan
SPLP	Synthetic Precipitation Leaching Procedure
SQCM	Site Quality Control Manager
SVOC	Semivolatile Organic Compound
TAL	Target Analyte List
TBD	to be determined
TCL	Target Compound List
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbon
TtEC	Tetra Tech EC, Inc.
USACE	U.S. Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
VOC	Volatile Organic Compound

1.0 INTRODUCTION

Tetra Tech EC, Inc. (TtEC) has prepared this Resource Conservation and Recovery Act (RCRA) Closure Documentation and Certification Report (Report) under Contract Task Order No. 0108 under the U.S. Navy Engineering Field Activity, Northeast Remedial Action Contract (RAC) N62472-99-D-0032 for work performed under Delivery Order No. 0014 under the U.S. Navy Engineering Field Activity, Northeast Remedial Action Contract (RAC) N62472-94-D-0398. This report provides for the certification of clean closure and the remediation and restoration of the Building A-85 Container Storage Area (CSA) site at Naval Submarine Base New London (SUBASENLON) located in Groton, Connecticut (see Figure 1-1 for the location of SUBASENLON).

1.1 Closure History

This Report describes the removal activities that were conducted to allow for the RCRA Clean Closure of the Building A-85 Container Storage Area at the U.S. Naval Submarine Base New London (SUBASENLON), located in Groton, Connecticut. Building A-85 Container Storage Area (CSA), EPA Identification No. CT4170022020, is located north of Wahoo Avenue at SUBASENLON**.** Figure 1-2 shows the Building A-85 CSA facility location and site configuration.

The RCRA Closure Plan Part I was submitted in June 1997 and detailed the Facility Information and Site Characterization Work Plan. Addendum I to Part I was submitted in September 1997 and detailed the Contaminant of Concern Sampling Program Results and the Extent of Contamination work approach. Part II, submitted August 26, 1999 summarized the site characterization results and presented a "clean closure" plan for the facility. Closure Plan Part III was submitted along with Part II and presented the details of the remedial activity required to remove any residual wastes and to verify decontamination of the facility. In addition, it included closure schedules, cost estimates, and closure certification requirements.

1.2 Closure Description

The Navy directed TtEC to perform soil removal and restoration at Building A-85 CSA as described within the Building A-85 CSA RCRA Closure Work Plan (Work Plan), dated February 20, 2001. The facility was closed in accordance with RCRA regulations contained in 40 CFR 265 Subpart G (Interim Status Standards For Owners and Operators of Hazardous Waste Treatment, Storage, and Disposal Facilities - Closure and Post-Closure). The structures that were closed included: a reinforced concrete bunker, eight wooden storage sheds, a silver recovery area, and paved outside areas near these structures (see photographs 1 and 2). Appendix A provides selected photographs of the various structures and the surrounding area. The wooden storage sheds were demolished and disposed off-site. As discussed within Section 6.0 of this report, the bunker was demolished and the surrounding area re-graded as a departure from the Work Plan dated February 20, 2001. The removal of contaminated soil was conducted in compliance with the CTDEP Hazardous Waste Regulations, Section 22a-449(c)-105, which incorporate by reference the above Federal Regulations. The CTDEP RCRA Closure Plan Guidance for Container Storage Areas and Tank Systems, November 1993 Draft, provides guidance for this closure process.

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Source: USGS Topographic Quardrangle; Uncasville, CT, 1984.
Digital base map courtesy of Maptech, Inc., Greenland, Maine.

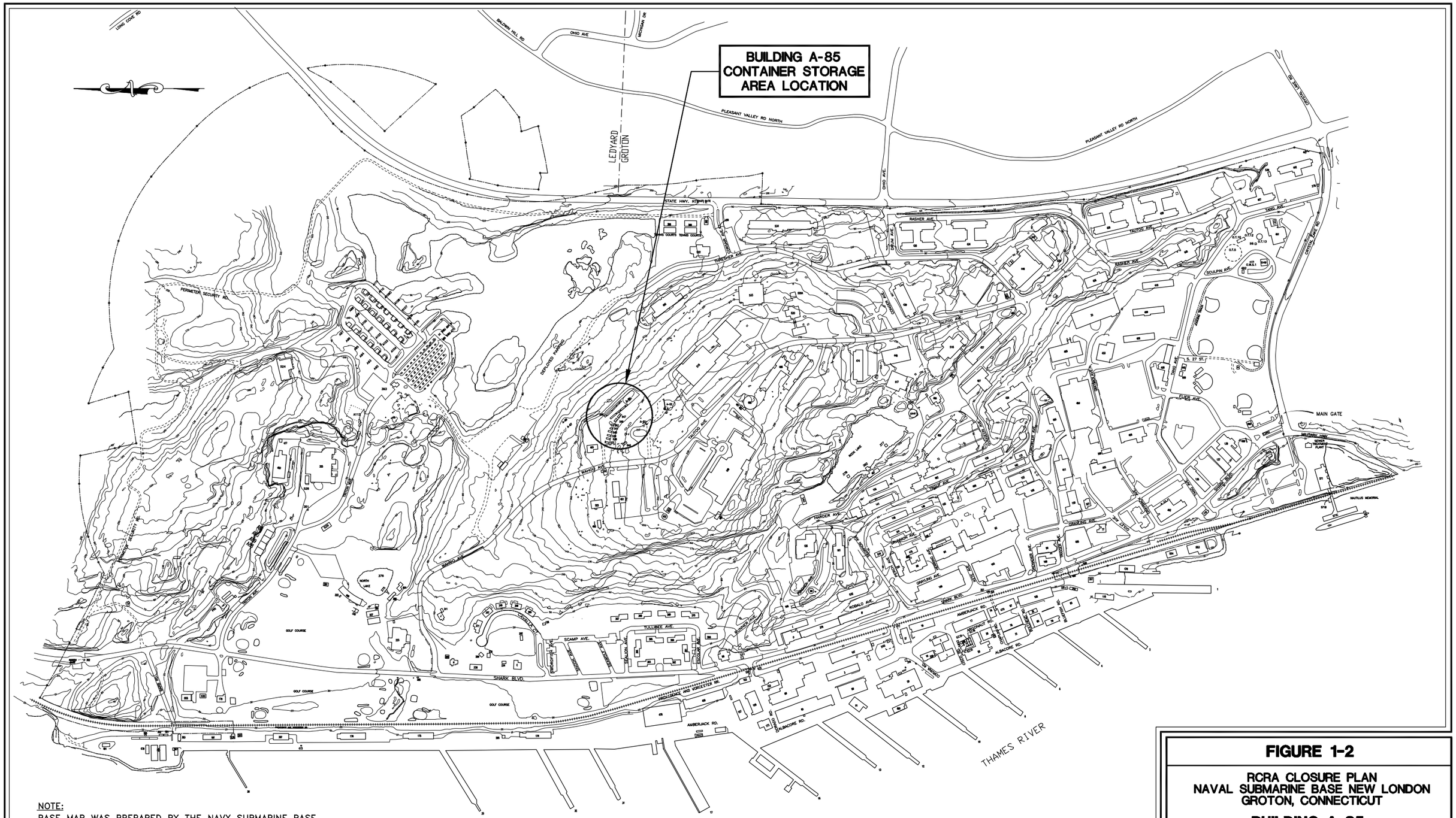
FIGURE 1-1

NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

SITE LOCATION MAP

SCALE: AS SHOWN

CADDFILE: 1284_V_LOCUS.DWG



NOTE:
BASE MAP WAS PREPARED BY THE NAVY SUBMARINE BASE PUBLIC WORKS DEPT. ENGINEERING DIVISION IN JANUARY 1997, DWG NO. A-667, AND ADAPTED AND MODIFIED BY TETRA TECH EC, INC., 133 FEDERAL STREET, BOSTON, MASSACHUSETTS, 02110, IN MARCH 1997.

0 300 600 900 1200
SCALE IN FEET

FIGURE 1-2

RCRA CLOSURE PLAN
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

BUILDING A-85
CONTAINER STORAGE AREA
FACILITY LOCATION MAP

SCALE: AS SHOWN

CADDFILE: 1284U007.DWG

The Navy previously submitted a Part A Permit application, for the storage of hazardous material for greater than 90 days, to the State of Connecticut, Department of Environmental Protection (CTDEP) for a newly constructed Hazardous Waste Storage Area. The application for this facility is currently under review, therefore the accumulation times have been restricted to less-than 90 days. As part of this Report, the Navy proposes to withdraw the RCRA Part A permit for the A-85 CSA as discussed further in Section 6.0.

The contents of this Report have been developed following the Draft CTDEP RCRA Closure Plan Guidance for Container Storage Areas and Tank Systems, November 1993 and include:

- Introduction (Section 1.0)
- Work Performed (Section 2.0)
- Sampling and Analyses (Section 3.0)
- Transportation and Disposal (Section 4.0)
- Departures From Approved Work Plan (Section 5.0)
- Part A Permit Withdrawal (Section 6.0)
- Certification Statement (Section 7.0)

2.0 WORK PERFORMED

The following sections describe the work performed as detailed within the Work Plan, dated February 20, 2001. The execution of this project involved various distinct tasks beginning with Mobilization and ending with the preparation of this Report. These tasks included:

- Mobilization
- Site Preparation
- Asphalt Pad Removal
- Soil Removal
- Site Restoration
- Closure Documentation and Certification Report

2.1 Mobilization

The area to be excavated was defined in the RCRA Closure Plan, Part II, and discussed further in Section 3.0 of the Work Plan. The area was the estimated extent of extractable soil contaminated with TPH and arsenic.

During mobilization, TtEC and Navy representatives conducted a pre-construction meeting to review the project plans and schedule. An existing office trailer on the base was utilized for the three-week duration of the project. Portable toilets were brought into the A-85 CSA for use. All trees and brush were removed from the area outside of the paved areas where the soil was removed. Miscellaneous debris was placed in a roll-off container for disposal at a municipal solid waste landfill.

During mobilization activities, the utility mark-outs previously established were relocated, and the existing fence was partially removed to provide access. Additionally, TtEC notified the Connecticut "Call Before You Dig" Utility Mark Out Service to provide the locations of any additional utilities. Prior to excavation activities, a Request for Permit to Excavate, was submitted to SUBASENLON Public Works Engineering Division. This request was finalized and the permit obtained on February 15, 2001. This permit included specific SUBASENLON dig procedures to be followed while working in the area. This request is included within Appendix B**.** The hazardous material and/or hazardous waste inventory still present on the site was transferred from the A-85 CSA to the newly constructed container storage facility on base by Navy personnel prior to intrusive work.

The SUBASENLON Public Works Department was notified prior to the disconnecting of the electric and water supply lines servicing the silver recovery area (Building 545). This was necessary to allow for the decommissioning of the structure.

2.1.1 Mobilization Chronology

02/02/01	Conduct pre-construction meeting.
02/20/01	Excavator arrives and is unloaded.
02/20/01	Portable toilets arrive and are unloaded.
02/20/01	Front-end loader on-site.
02/20/01	Commence interior fence removal (chain link and posts).
02/21/01	Complete interior fence removal (chain link and posts).
02/21/01	SUBASENLON Environmental Division removes existing stored materials.
02/21/01	Receive excavation permit from ROICC inspector.

2.2 Storage Shed Demolition - > 90 Day Storage Area

The eight wooden sheds located west of the bunker were removed as part of this closure. Pictures of the wooden sheds are included within Appendix A. These sheds were utilized as a greater-than-90-day storage area for hazardous waste. They were constructed and put in place approximately 15 to 20 years ago. Figure 4-4 in Part I of the RCRA Closure Plan shows these sheds as having 3 sides and a top. The asphalt pavement that covers the outside portion of the Building A-85 CSA, as discussed in Section 4.3 of Part I of the RCRA Closure Plan, comprises the wooden sheds' floors.

2.2.1 Storage Shed Demolition Chronology

02/21/01 Commence storage shed demolition.
02/21/01 Complete storage shed demolition.

2.3 Building A-85 Bunker Demolition

As a departure from the Work Plan (see Section 5.2) the Building A-85 bunker was demolished as part of this closure. The bunker had previously been used to store items such as flammables, oxidizers, and toxic items. The bunker had ceased to be utilized after it had been deemed unsafe during a recent safety inspection by SUBASENLON safety personnel. Appendix C provides correspondence related to the unsafe condition of the bunker. As part of the closure activities, TtEC was required to sample stained and cracked areas of the floor of the concrete bunker. Due to the unsafe condition of the bunker's doorway, entry into the bunker for sample collection was only possible by remotely opening/removing the bunker doors. This was attempted using the excavator to avoid endangering personnel (see photograph 3). During this process, the entire facade of the bunker collapsed, rendering the structure unstable. TtEC and the Navy expressed concerns that soil removal activities to be conducted may contribute to the potential cave-in of the structure. Therefore, it was determined to remove and stockpile the bunkers' soil cover to use as potential backfill and to demolish the building (see photographs 4 and 5).

2.3.1 Building A-85 Bunker Demolition Chronology

02/21/01 Attempt to remotely open bunker doors. Bunker facade collapses.
02/21/01 Commence demolition of Building A-85 bunker. Stockpile earth cover for backfill.
02/22/01 Complete demolition of Building A-85 bunker.

2.4 Building 545 – Silver Recovery Building Demolition Chronology

The Silver Recovery Building was the only structure that required the disconnecting of utilities prior to demolition (see photograph 6). Water and electrical power serviced the structure at the time of this closure and SUBASENLON Public Works Department was contacted to shut-off all utilities. However, the utilities were unable to be disconnected away from the structure without interrupting services to other locations. Therefore, TtEC disconnected the main water shut-off valve within the structure and disengaged the local breaker. Demolition activities then commenced and were conducted carefully as to not harm these utilities (see photograph 7).

2.4.1 Building 545 – Silver Recovery Building Demolition Chronology

02/26/01 SUBASENLON Public Works Department on-site and shut down circuit breaker for electric service to structure. Commence and complete demolition of the Silver Recovery Building.

2.5 Contaminated Soil Removal

As detailed within the Work Plan, this closure was conducted in compliance with the CTDEP, Hazardous Waste Regulations, Section 22a-449(c)-105. Contaminated soils were excavated and disposed of off-site. Figure 2-1 provides the excavation areas overview. The following methodology was used during all soil removal and excavation activities:

1. Areas of contaminated soil to be removed were demarcated by stakes prior to excavation.

2. Removal of contaminated soil was performed with a backhoe.

3. The initial vertical and horizontal limits of the soil excavation were based on the limits determined by the pre-excavation sampling and analysis that was detailed in the RCRA Closure Plan, Part II. However, the final areas of excavation exceeded the estimated volumes.

4. Confirmatory analysis at an off-site laboratory for TPH, metals, VOCs and SVOCs ensured that soils above the applicable criteria had been removed. Turnaround time was 48 hours for the confirmatory sampling.

5. No shoring, bracing, or sheetpiling was utilized during excavation. Sidewalls were sloped back as necessary.

6. The site cleanup goals for contaminated soils include the CTDEP Industrial/Commercial Direct Exposure Criteria and GB Pollutant Mobility Criteria of 2500 ppm TPH. For arsenic contaminated media, a 10-ppm Industrial/Commercial Standard was used along with a GB Pollutant Mobility Criteria of 0.5 ppm (by TCLP or SPLP). Where applicable, soil removal was also compared to the Direct Exposure cleanup-goals for SVOCs. Tables 2-1 through 2-5 show the cleanup goals as they relate to this closure.

7. Contaminated soil was staged on 10 mil polyethylene sheeting within the work area/Exclusion Zone and adjacent to the excavation. Trucks were loaded from a designated stockpile location. The material was staged overnight, and was covered with 6 mil polyethylene sheeting to prevent rainfall infiltration and run-on/run-off from occurring.

8. Arsenic contaminated soils were combined with the TPH contaminated soils for recycling/disposal since waste characterization levels met the disposal facility's criteria.

9. Once laboratory results indicated the TPH concentration to be below 2500 ppm, SVOC and VOC concentrations to be below the applicable criteria, and the RCRA 8 Metals and zinc, copper, and nickel concentrations to be below the criteria, the entire excavation was backfilled. Fill material used is discussed in Section 3.6.

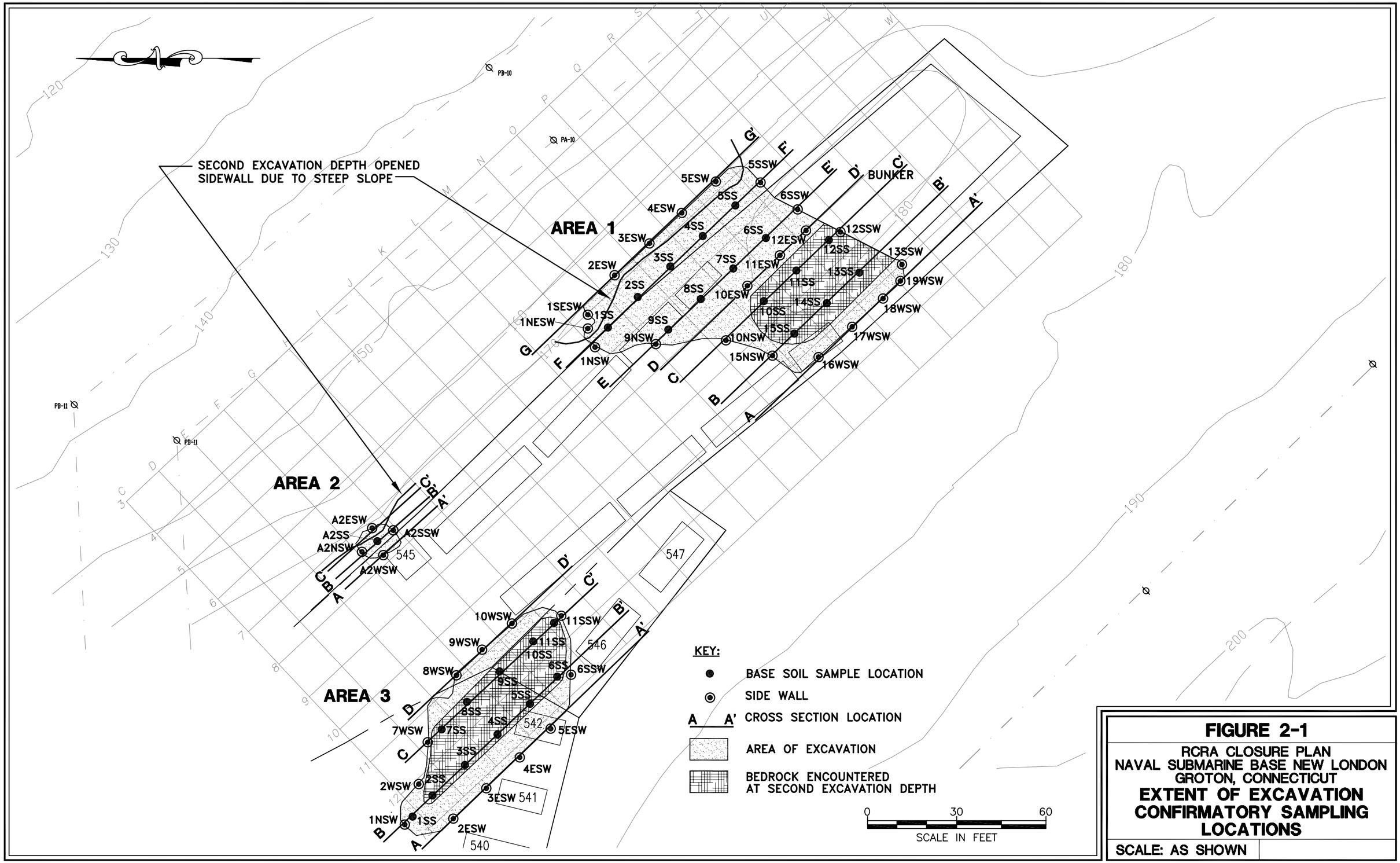


FIGURE 2-1

RCRA CLOSURE PLAN
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

EXTENT OF EXCAVATION CONFIRMATORY SAMPLING LOCATIONS

SCALE: AS SHOWN

CADDFILE: 1284_V_001.DWG

10. Dewatering during excavation did not occur. No groundwater was encountered during the excavation of the three areas.

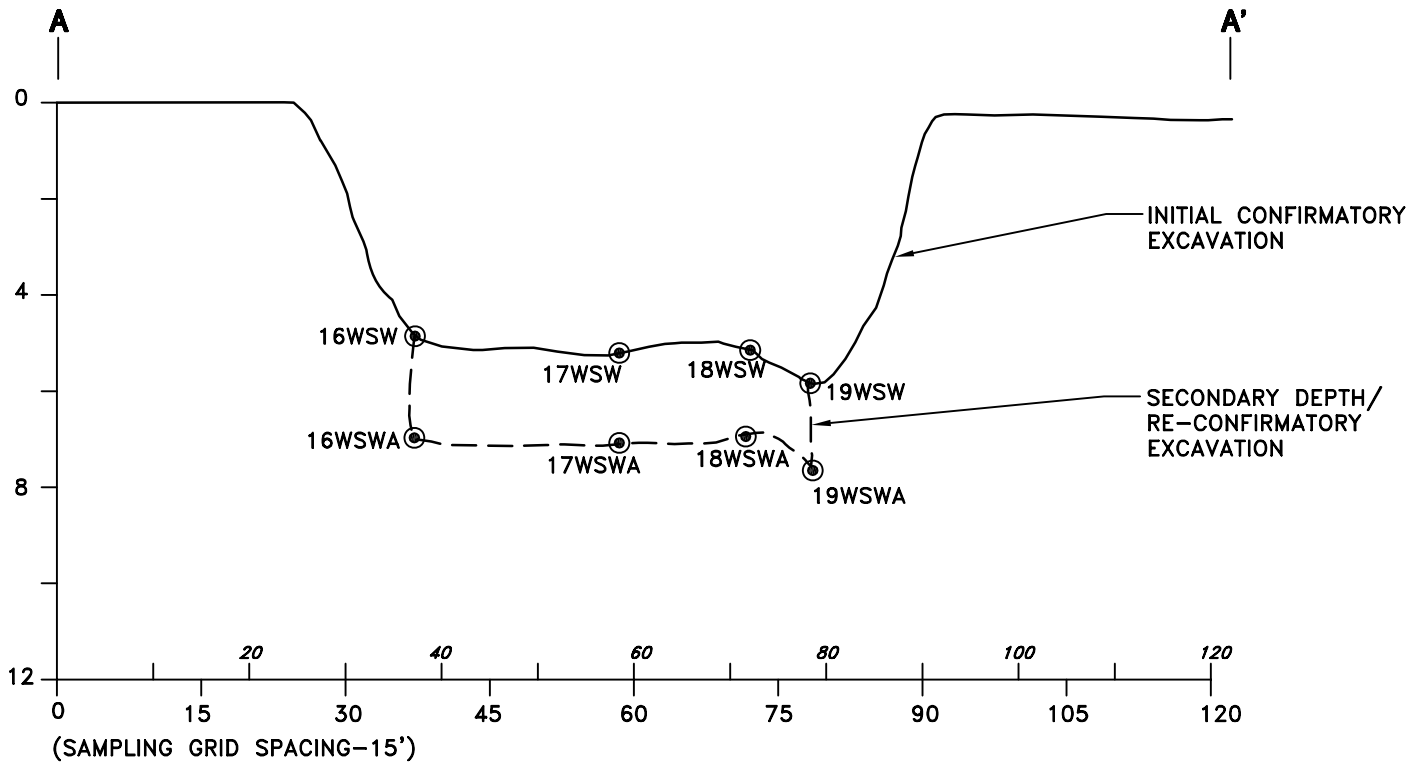
11. Excavation activities were conducted in accordance with the requirements of 29 CFR 1926, Subpart P and the U.S. Army Corps of Engineers (USACE) Safety and Health Requirements Manual EM-385-1-1.

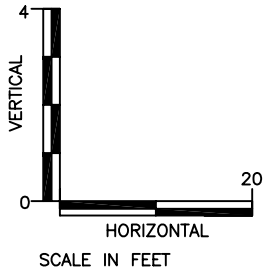
12. For transportation and disposal, all truck beds/roll-offs were visually inspected to ensure no debris/contaminated soil was present prior to loading. No debris/contaminated soil originating from off-site was present prior to loading. Contaminated soil was not loaded over the sidewall height of the truck dump bed or roll-off container.

13. When the excavation was complete, confirmatory sampling was performed (see Section 2.5.1 to 2.5.6 below). A minimum of one confirmatory sample was collected from the center of the floor of each 15 by 15-foot sampling grid (225 square feet), and one from the midpoint of each 15 linear feet of excavation sidewall. The samples were submitted to an off-site laboratory for analysis. The excavation was considered complete when confirmatory results indicate that levels of contaminants were below applicable standards.

2.5.1 Area 1 Contaminated Soil Removal

Area 1 (see photographs 8, 9, 10, and 11**)** is located directly north of the former A-85 CSA Bunker. Once the bunker was demolished (see Section 2.3) and re-graded, the asphalt directly in front of the concrete slab was removed and stockpiled in order to allow access to the TPH and Arsenic contaminated soil. The initial excavation involved the removal of roughly 751 tons of contaminated material with approximate dimensions of 65 feet (length) x 50 feet (width) x 5 feet (depth - varies). The floor of the excavation and the sidewalls were then sampled for confirmatory analyses, as discussed within Section 3.4.2 of this report. Analyses of the majority of the floor samples, western side wall, and northern sidewall samples indicated that the cleanup criteria had not been met, thus requiring further soil removal to determine the extent of contamination. These areas are further discussed in detail within Section 3.4.2 of the Sampling and Analyses Section. While excavating to the second depth, bedrock was encountered at roughly 8 to 10 feet bgs at the floor of the excavation on the western side. Therefore, the excavation was halted in the vertical direction and continued north and east. A second round of confirmatory sampling and analyses indicated that the horizontal extent of contamination had met the clean-up criteria as detailed within the Work Plan for the northern, southern, and western sidewall. The eastern sidewall sloped down drastically to the east which opened the sidewall, limiting the ability to collect a second round of confirmatory samples. Upon further evaluation of the Area 1 data, sample A1-1NSW indicated a total arsenic (80 ppm) exceedence of the CTDEP Industrial/Commercial Direct Exposure Criteria. This sample was re-run and again exceeded at 78 ppm arsenic. Therefore, this location was re-excavated and sampled (sample ID A1-1NSW-A). This analyses indicated non-detect levels of arsenic at the appropriate detection limit. This completed excavation activities in Area 1. Final limits of the excavation are shown on Figure 2-1 and cross-sections are provided in Figures 2-2 to 2-8.





KEY:

- ● BASE SOIL SAMPLE LOCATION
- ◉ SIDE WALL SAMPLE LOCATION

FIGURE 2-2

NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 1
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION A-A' -

SCALE: AS SHOWN

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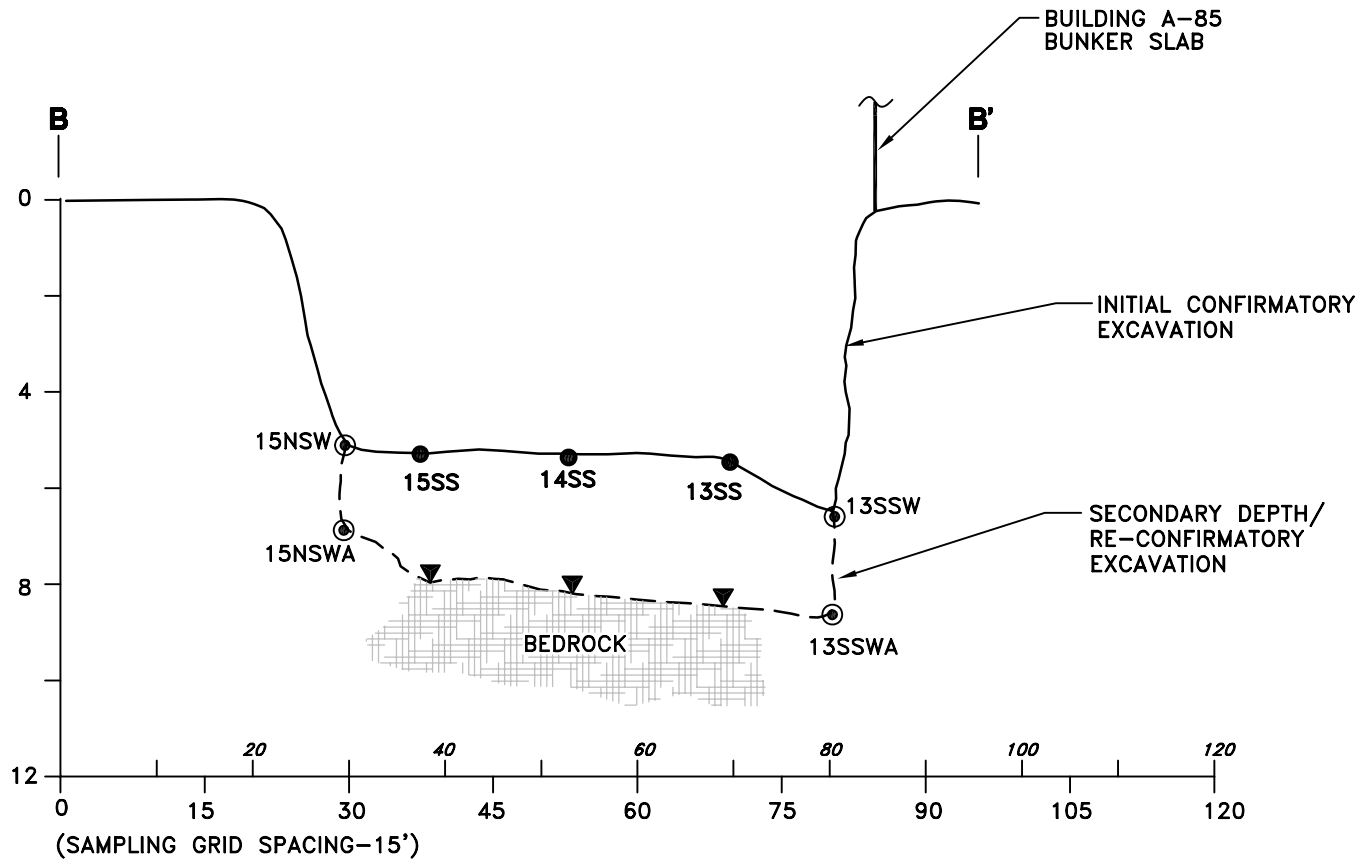
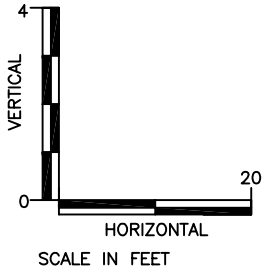




KEY:

- ● BASE SOIL SAMPLE LOCATION
- ⊙ SIDE WALL SAMPLE LOCATION
- ▼ BEDROCK ENCOUNTERED AT 2ND EXCAVATION DEPTH

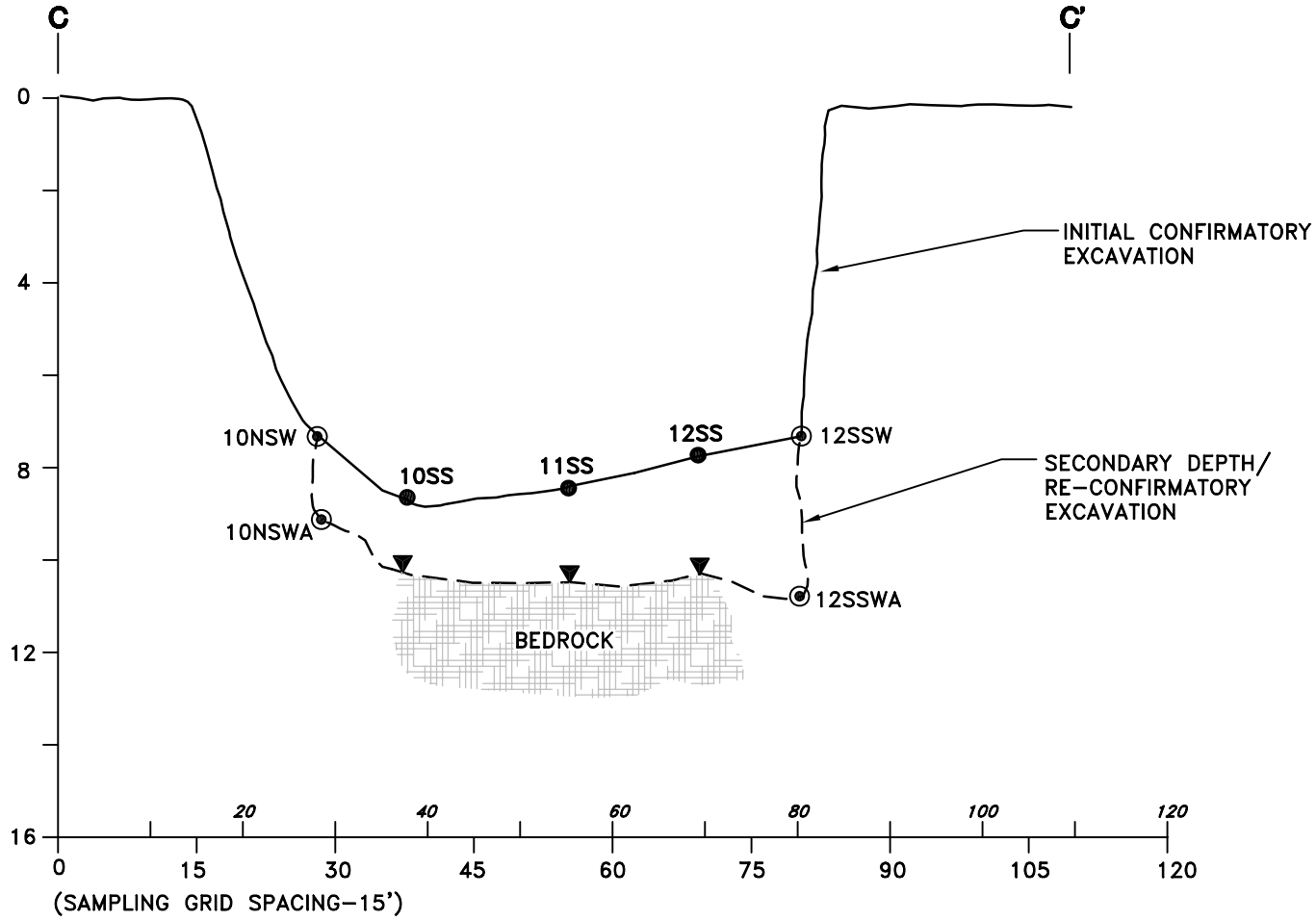
FIGURE 2-3

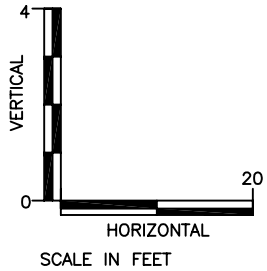
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 1
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION B-B' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG





KEY:

BEDROCK

- ● BASE SOIL SAMPLE LOCATION
- ◉ SIDE WALL SAMPLE LOCATION
- ▼ BEDROCK ENCOUNTERED AT 2ND EXCAVATION DEPTH

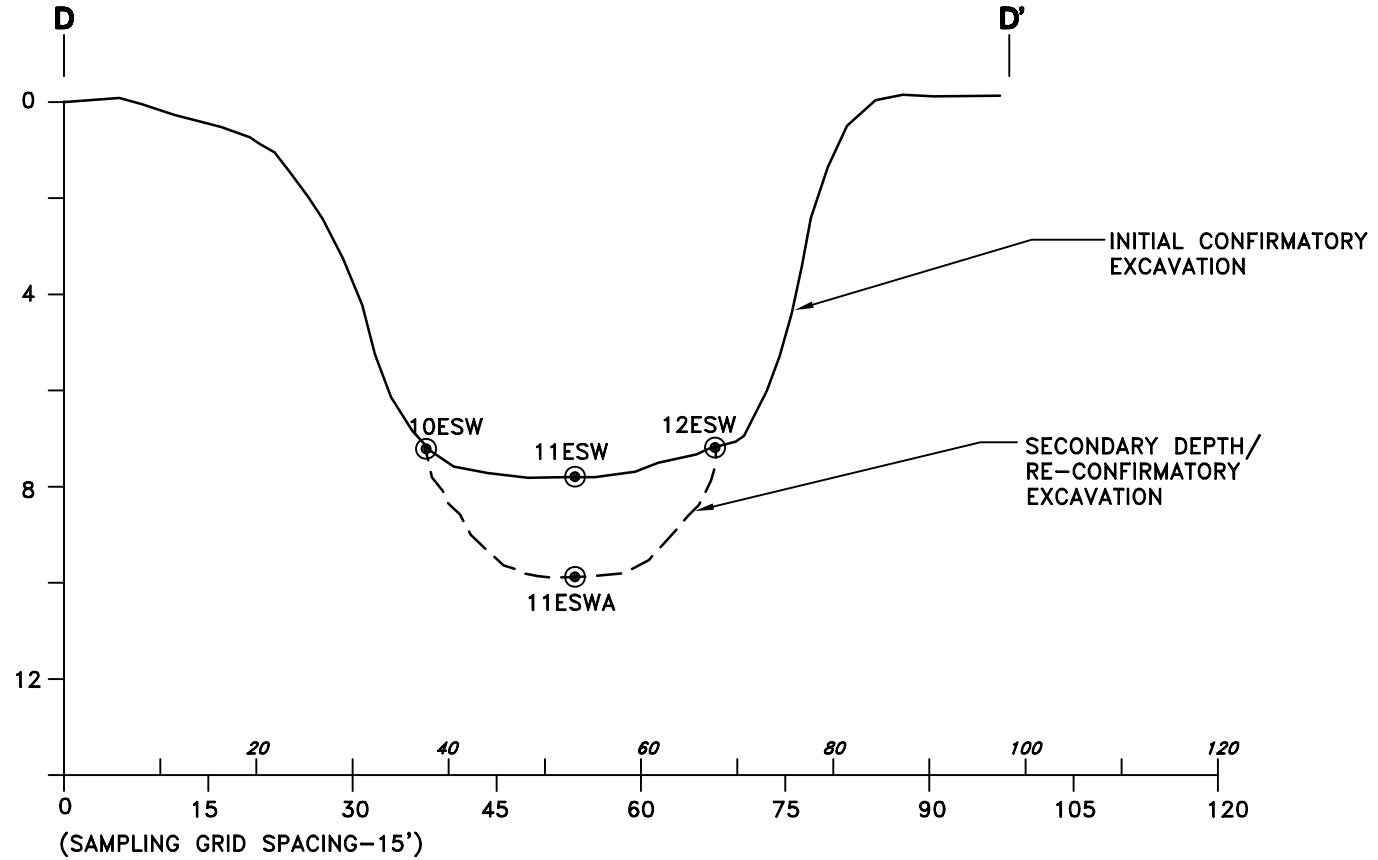
FIGURE 2-4

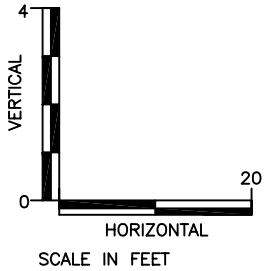
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 1
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION C-C' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG





KEY:

- ● BASE SOIL SAMPLE LOCATION
- ⊙ SIDE WALL SAMPLE LOCATION

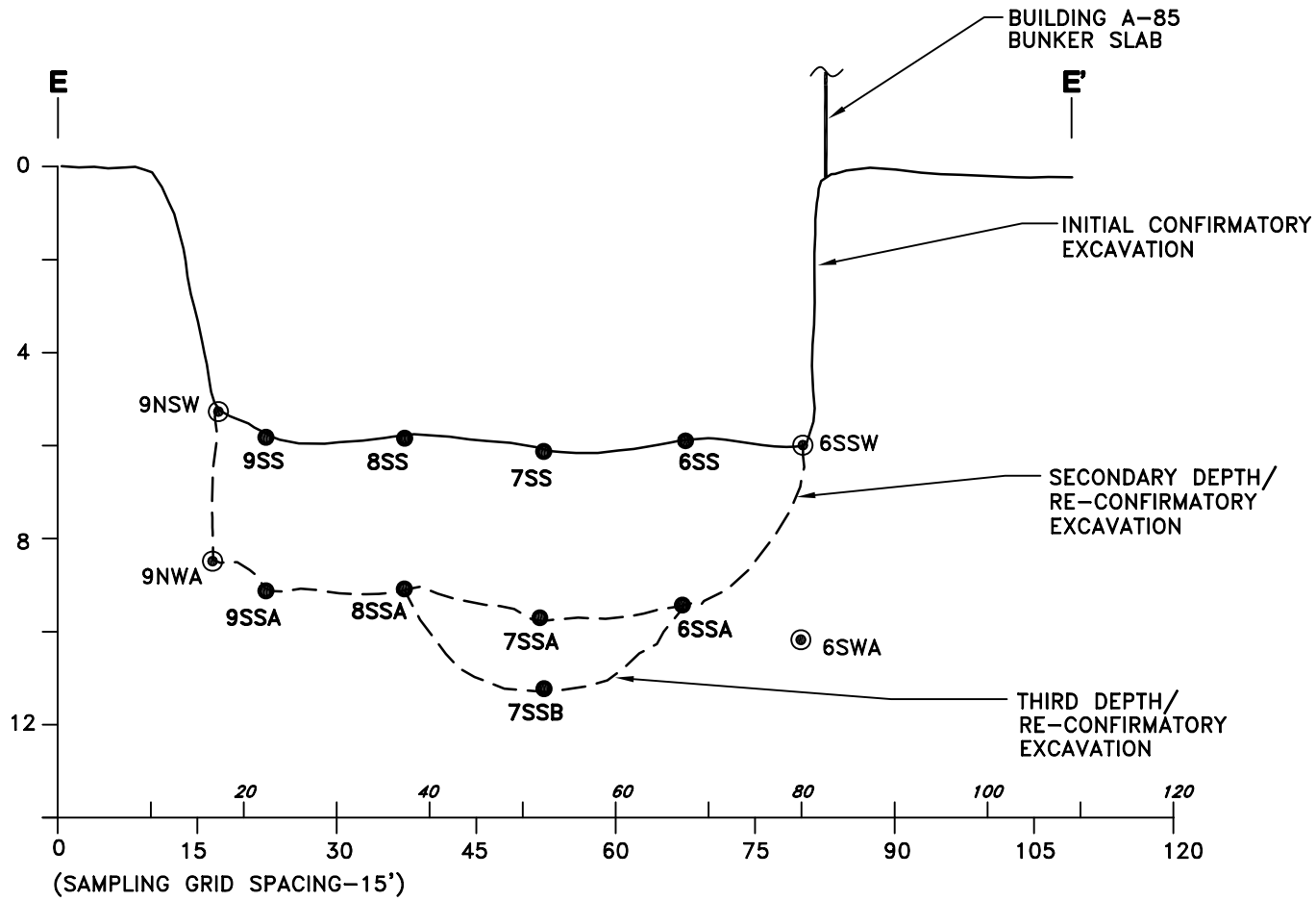
FIGURE 2-5

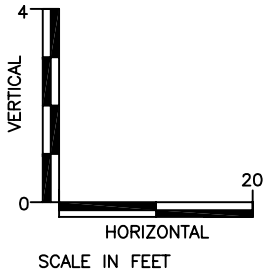
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 1
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION D-D' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG





KEY:

- BASE SOIL SAMPLE LOCATION
- SIDE WALL SAMPLE LOCATION

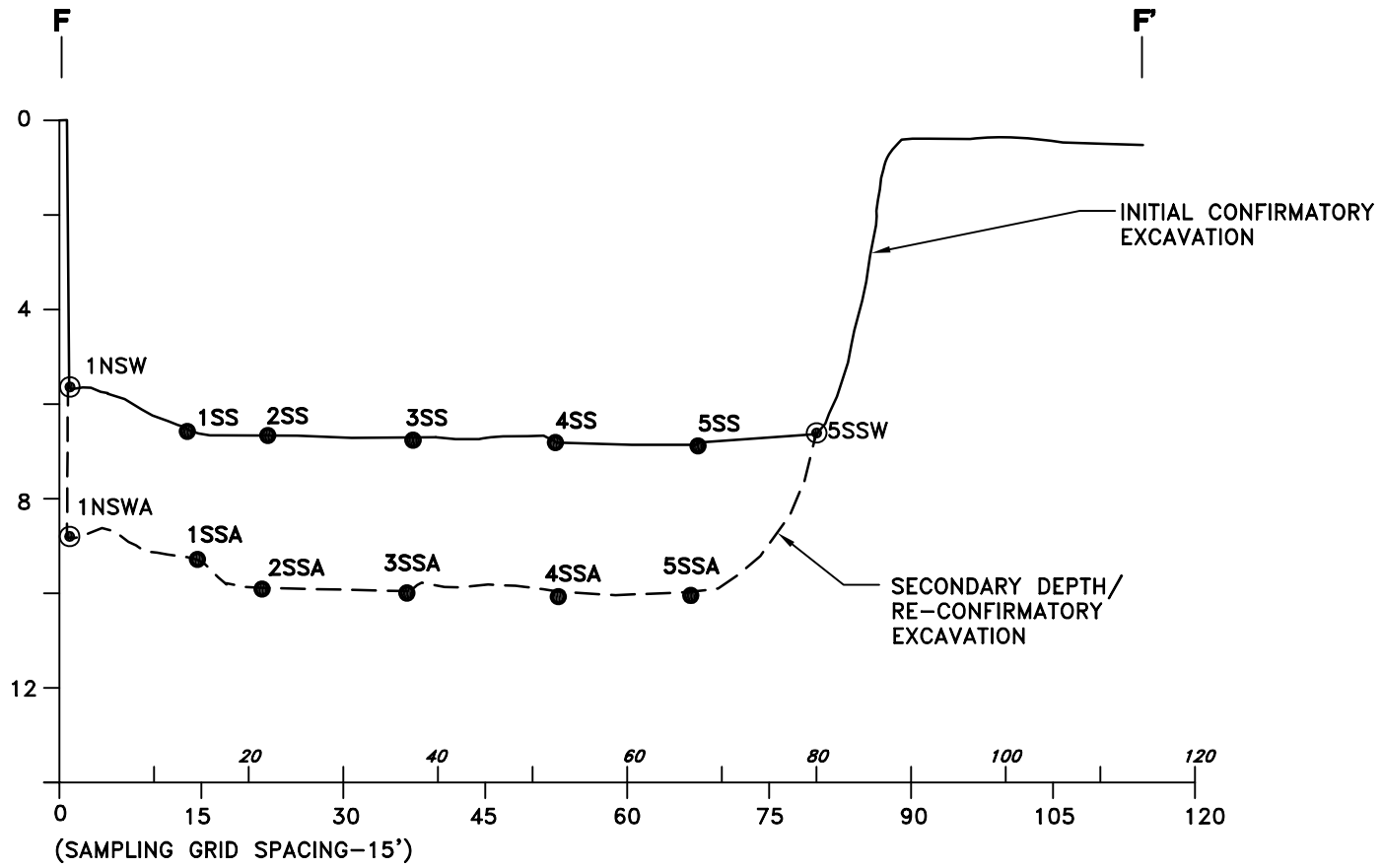
FIGURE 2-6

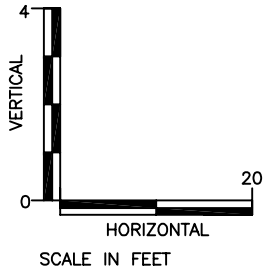
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 1
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION E-E' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG





KEY:

- BASE SOIL SAMPLE LOCATION
- SIDE WALL SAMPLE LOCATION

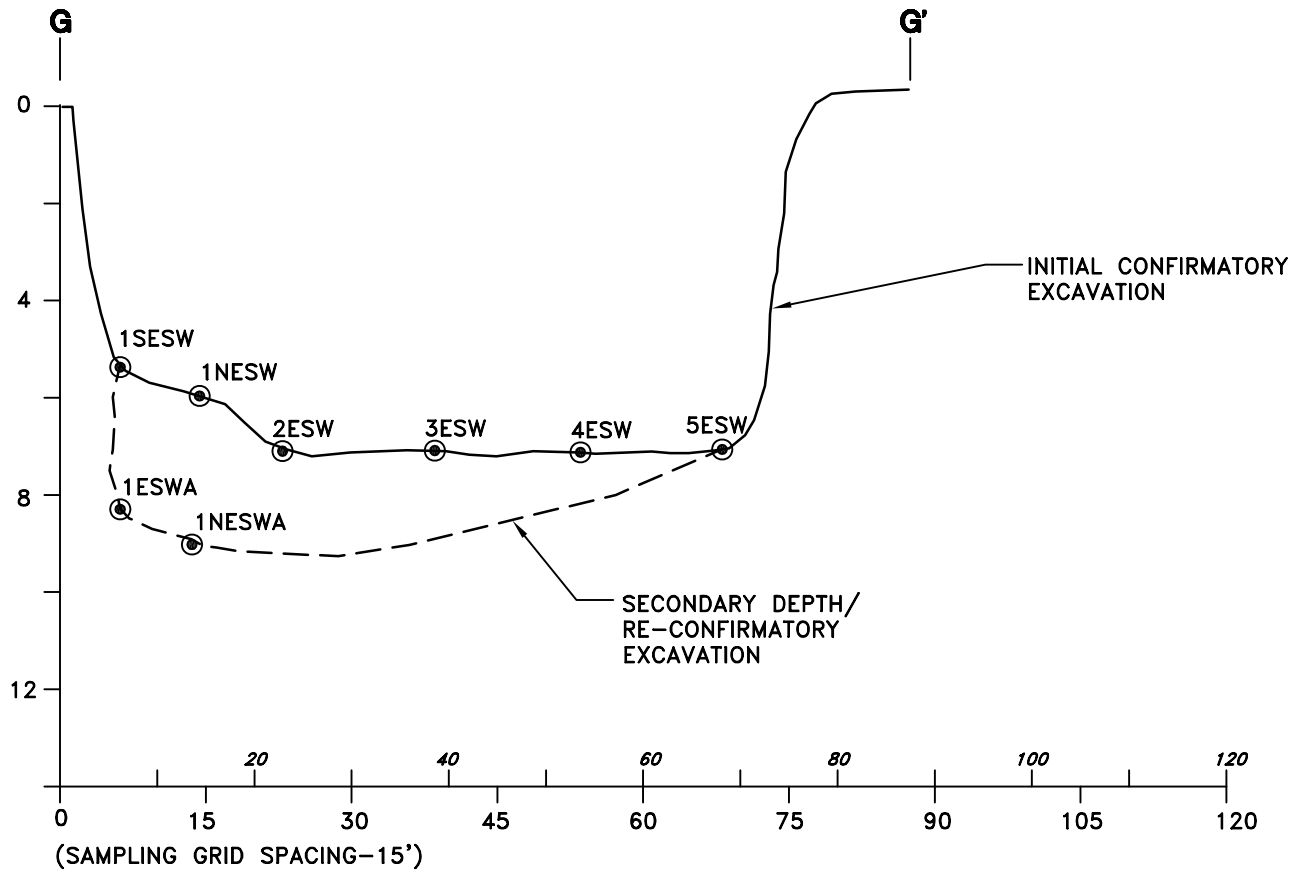
FIGURE 2-7

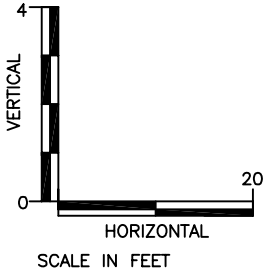
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 1
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION F-F' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG





KEY:

- BASE SOIL SAMPLE LOCATION
- SIDE WALL SAMPLE LOCATION

FIGURE 2-8

NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 1
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION G-G' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG

2.5.2 Area 1 Contaminated Soil Removal Chronology

02/22/01 Remove and stockpile asphalt from Area 1.

02/22/01 Commence initial excavating and stockpiling of soil from Area 1.

02/27/01 Complete initial excavation and stockpiling of soil from Area 1.

03/14/01 Layout Area 1 sampling grid and survey. Perform confirmatory sampling of initial excavation on first half of Area 1. Ship samples off-site for analyses.

03/15/01 Perform confirmatory sampling of second half of initial Area 1 excavation. Ship samples off-site for analyses.

03/21/01 Off-site confirmatory analyses of initial Area 1 excavation indicate soil levels in excess of the clean-up goals. Re-excavate eastern half of Area 1 and ship confirmatory (2nd depth) samples off-site for analyses.

03/22/01 Re-excavate western half of Area 1.

03/26/01 Collect and ship off-site confirmatory (2nd depth) samples of the western half of Area 1 soils for analyses. Sampling of eastern half of Area 1 indicates soil levels in excess of the clean-up goals. Re-excavate eastern half of Area 1 hot-spots and ship re-confirmatory (3rd depth) samples off-site for analyses.

03/29/01 Off-site analyses of Area 1 confirmatory (western half - 2nd depth and eastern half - 3rd depth) samples indicated that the excavation has met the clean-up criteria both horizontally and vertically. Completed Area 1 excavation. Commence backfilling of Area 1 excavation with clean-fill.

04/03/01 Complete initial backfilling operations at Area 1.

06/29/01 Upon further evaluation of the Area 1 data, sample A1-1NSW indicated a total arsenic (80 ppm) exceedence of the CTDEP Industrial/Commercial Direct Exposure Criteria. This sample was re-run and again exceeded at 78 ppm arsenic. Therefore, this location was re-excavated and sampled (sample ID A1-1NSW-A). This analyses indicated non-detect levels of arsenic at the appropriate detection limit.

06/29/01 Complete final backfilling operations at Area 1.

2.5.3 Area 2 Contaminated Soil Removal

Area 2 (see photograph 12) was located beneath the former Silver Recovery Building (Building 545) on the northeastern side of the site. This building was demolished (see Section 2.4) and the underlying pavement removed to allow access to the TPH contaminated soil for removal. The initial excavation reached a depth of approximately 6 feet bgs. Final dimensions are approximated at 10 feet (length) x 9 feet (width) x 5 feet (depth - varies). Approximately 25 tons of contaminated soils were removed.

The sidewalls of the initial excavation were sampled and analyzed. One sample (A2-ESW) on the eastern sidewall exceeded the cleanup criteria for arsenic. Chromium and lead levels exceeded the

GB PM Criteria for all of the sidewall samples. As with the Area 1 excavation, the slope on the eastern sidewall of the excavation opened the wall during the removal of the second depth of soil. These initial sidewall samples did not exceed the cleanup criteria and therefore the excavation was considered complete in the horizontal direction. Due to the small size (and location on an eastern side-slope) of this excavation, it was necessary to remove additional soil from the base in order to remove material from the east sidewall. The excavation progressed by removing 1 foot of soil in the vertical direction. Confirmatory analyses indicated elevated levels above the GB PM criteria for chromium and lead at this location. The excavation progressed in the vertical direction and 1 more foot of contaminated soil was removed. Confirmatory analyses at this depth indicated that all metals were below the cleanup criteria. The final depth of the Area 2 excavation reached approximately 8 feet bgs. Section 3.4.4 of this report describe the confirmatory sampling approach in greater detail. Final limits of the excavation are shown on Figure 2-1 and cross-sections are provided in Figures 2-9 to 2-11.

2.5.4 Area 2 Contaminated Soil Removal Chronology

02/27/01 Remove and stock-pile asphalt pavement from Area 2.

02/27/01 Commence initial contaminated soil excavation activities at Area 2 and stock-pile soil.

02/27/01 Complete initial contaminated soil excavation activities at Area 2.

03/12/01 Layout Area 2 sampling grid and survey. Perform confirmatory sampling of initial excavation. Ship samples off-site for analyses.

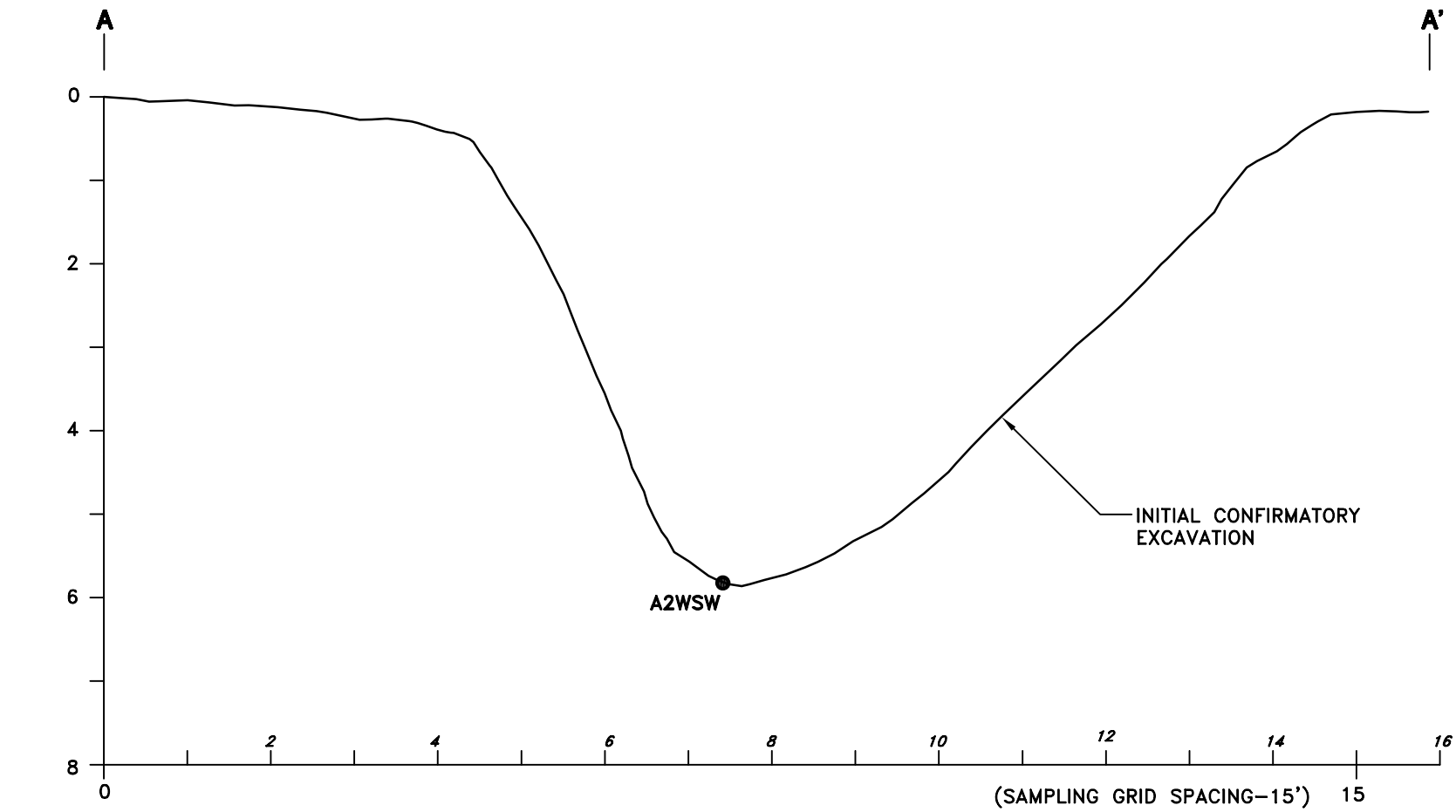
03/20/01 Confirmatory analyses of the initial Area 2 excavation indicates levels of contaminants above the clean-up goals. Re-excavate (2nd depth) Area 2 hotspot.

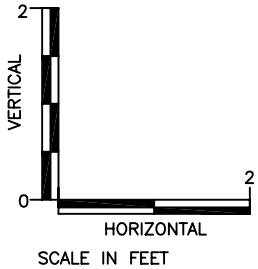
03/21/01 Perform confirmatory (2nd depth) sampling of Area 2 and ship samples off-site for analyses.

03/26/01 Confirmatory analyses of the Area 2 re-excavation (2nd depth) indicates levels of contaminants above the clean-up goals. Re-excavate (3rd depth) hotspot. Ship re-confirmatory (3rd depth) samples off-site for analyses.

03/28/01 Confirmatory analyses indicates that the Area 2 re-excavation (3rd depth) has met the cleanup criteria both horizontally and vertically. Completed Area 2 excavation. Commence backfilling of Area 2 excavation with clean-fill.

03/28/01 Complete backfilling of Area 2 excavation with clean-fill.





KEY:

- BASE SOIL SAMPLE LOCATION
- SIDE WALL SAMPLE LOCATION

FIGURE 2-9

NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 2
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION A-A' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG

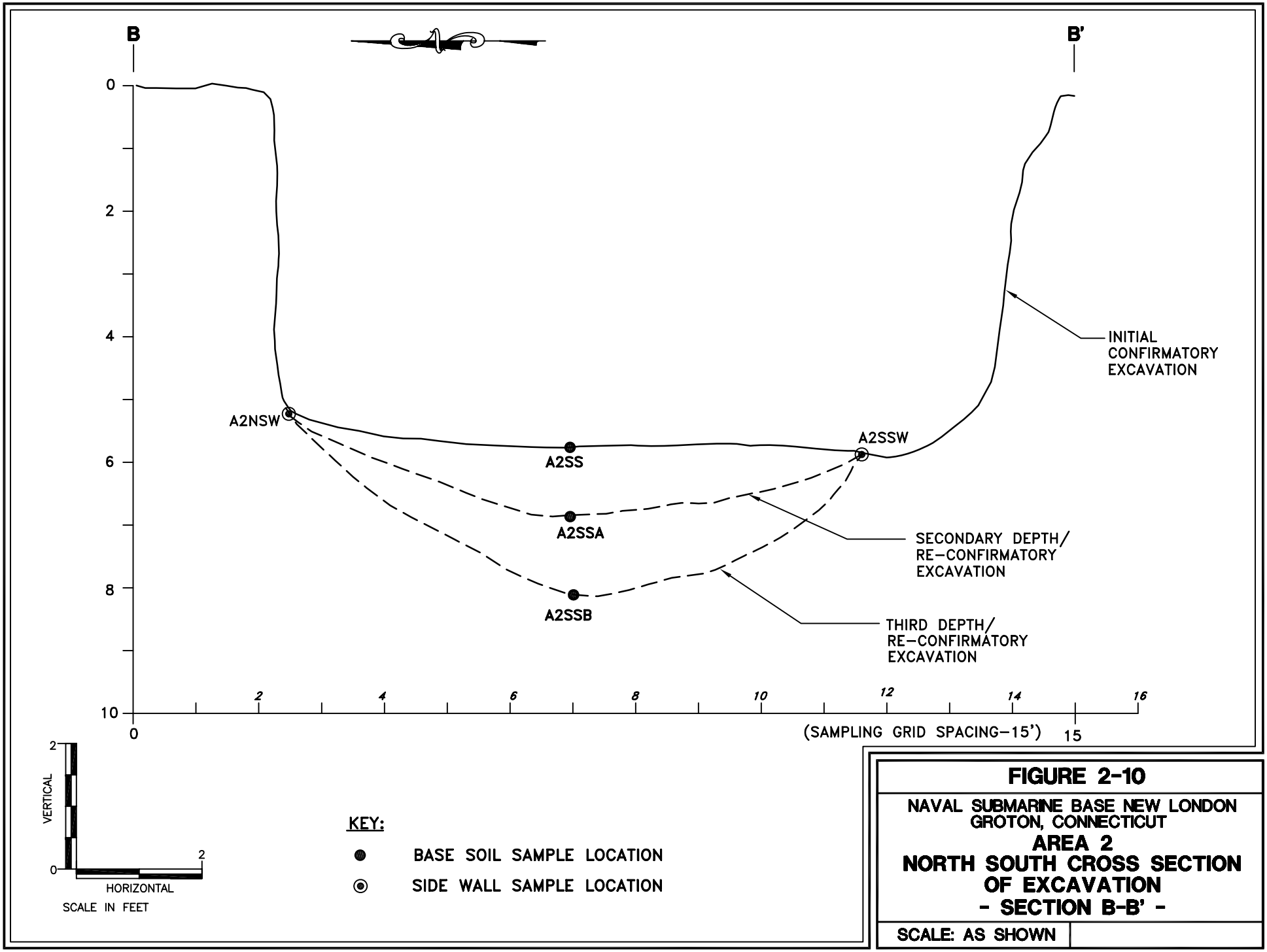


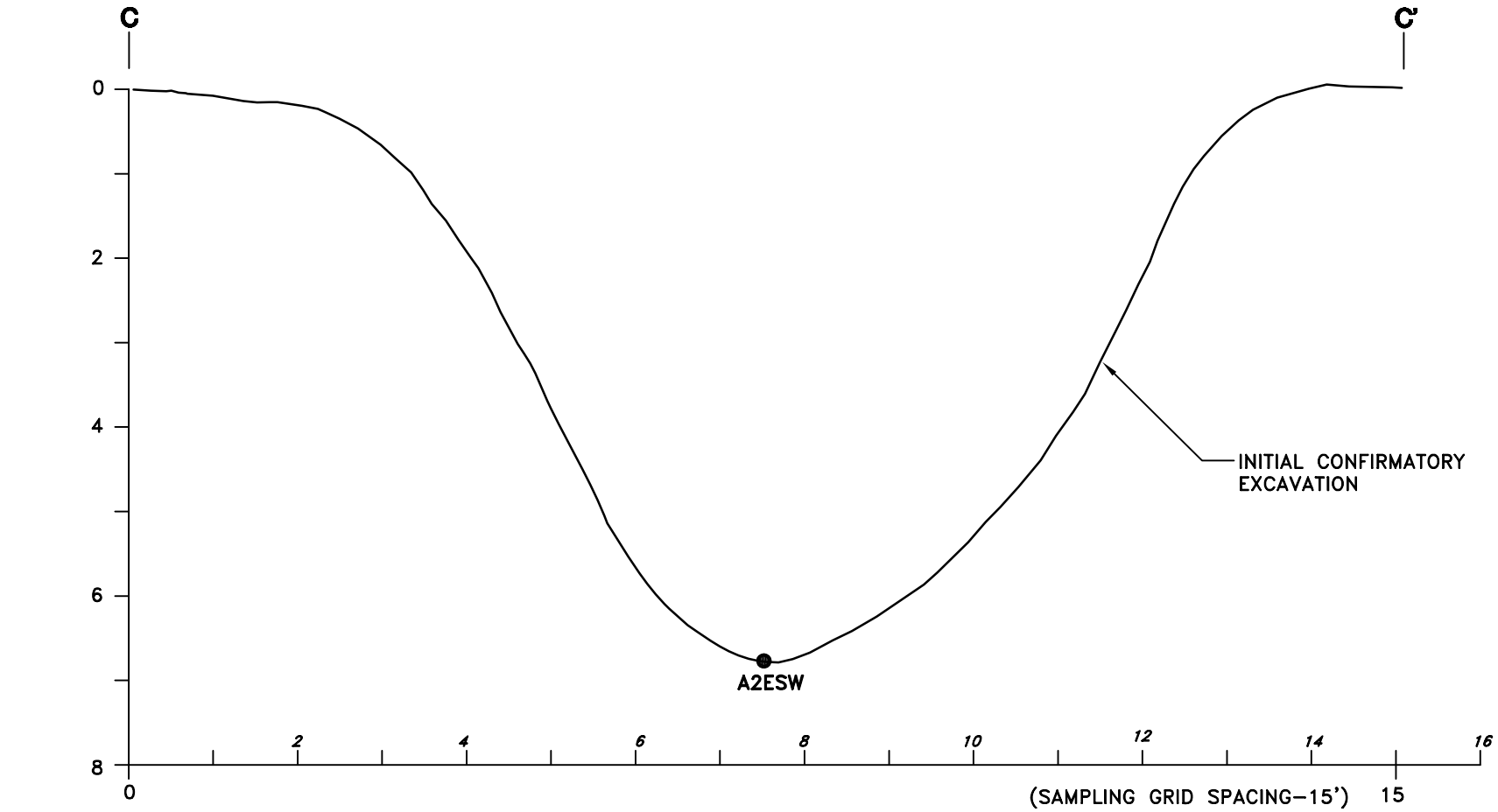
FIGURE 2-10

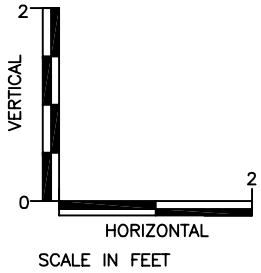
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 2
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION B-B' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG





KEY:

- BASE SOIL SAMPLE LOCATION
- SIDE WALL SAMPLE LOCATION

FIGURE 2-11

NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 2
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION C-C' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG

2.5.5 Area 3 Contaminated Soil Removal

Area 3 (see photographs 13 and 14) is located on the most northern area of the site. As detailed within the Work Plan, soils within this area were contaminated with levels of SVOCs on the southern side and levels of arsenic on the northern border. The Area 3 final excavation dimensions were approximately 60 feet (length) X 30 feet (width) X 6 feet (depth - varies) and involved the removal of approximately 476 tons of contaminated soil.

The initial excavation reached a depth of approximately 7 feet bgs at the base and approximately 9 feet bgs on the most northern end of the excavation. Initial sampling and analyses indicated that there were elevated levels of metals at the base and on all sidewalls. The excavation was continued in both the horizontal and vertical direction. The excavation hit bedrock at approximately 10 to 12 feet at the base and was considered complete in the vertical direction. Analyses of the second round of confirmatory sampling of the sidewalls indicated that the western, eastern, and northern results had met the cleanup criteria for metals. However, analyses of the confirmatory data for the southern sidewall again exceeded the cleanup criteria for metals (lead). Therefore the excavation continued in the southern direction and confirmatory analyses were performed. For this 3rd round of analyses the southern sidewall had met the cleanup criteria and the excavation was considered complete. Section 3.4.6 of this report describe the confirmatory sampling approach in greater detail. Final limits of the excavation are shown on Figure 2-1 and cross-sections are provided in Figures 2-12 to 2-15.

2.5.6 Area 3 Contaminated Soil Removal Chronology

03/01/01 Remove asphalt and concrete from Area 3 and stock-pile.

03/01/01 Commence initial excavation activities of Area 3.

03/13/01 Layout Area 3 sampling grid and survey. Perform confirmatory sampling of initial excavation. Ship samples off-site for analyses.

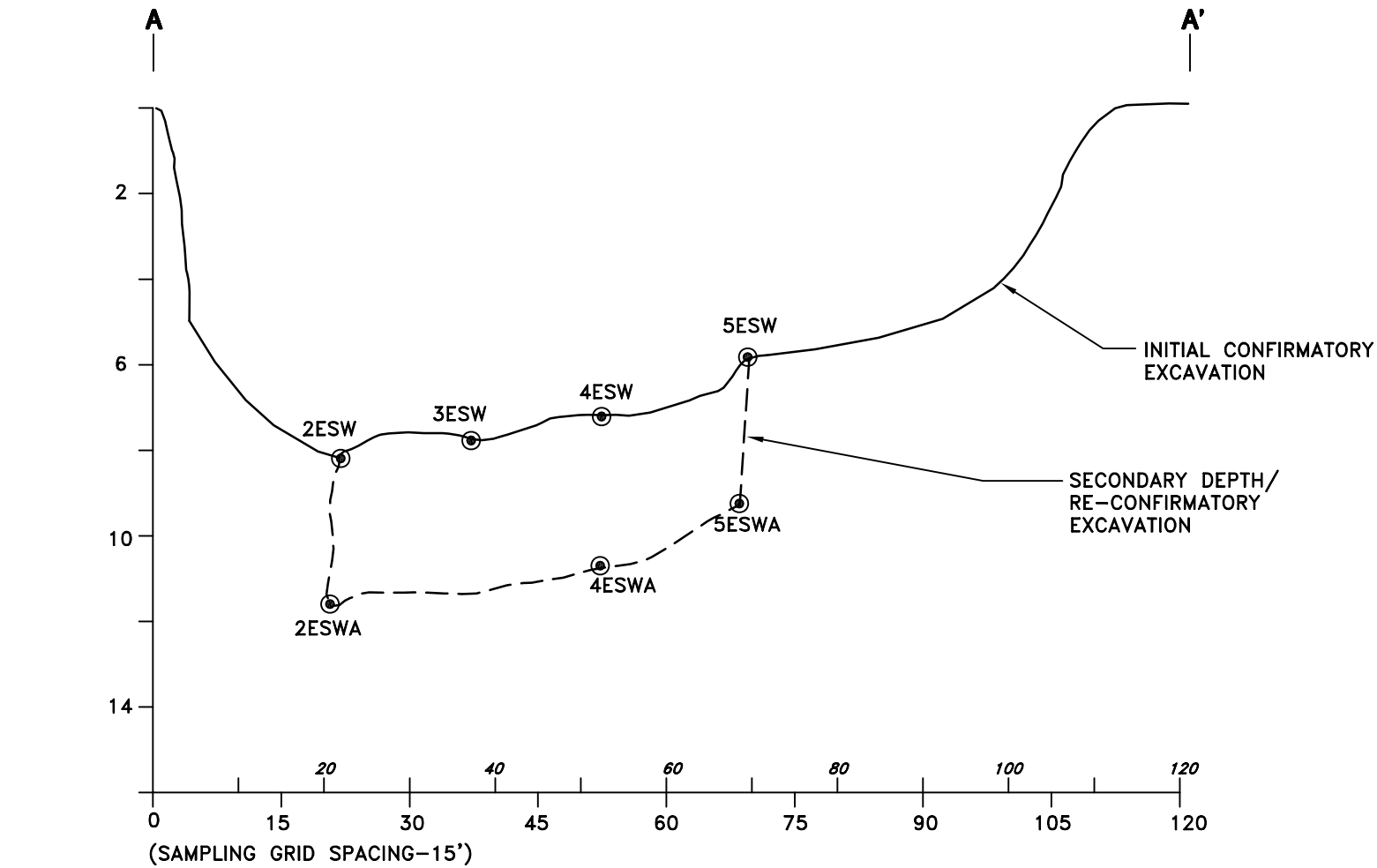
03/20/01 Confirmatory analyses of the Area 3 initial excavation indicate levels of contaminants above the clean-up goals. Re-excavate (2nd depth) Area 3. Floor of Area 3 is at ledge.

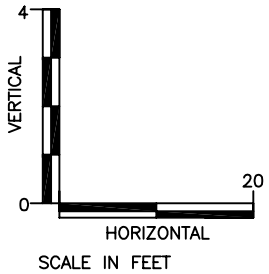
03/21/01 Perform confirmatory (2nd depth) sampling of Area 3 excavation sidewalls and send off-site for analyses.

03/26/01 Confirmatory (2nd depth) analyses of the Area 3 excavation indicates levels of contaminants above the clean-up goals. Re-excavate (3rd depth) hotspots in Area 3 excavation and perform confirmatory sampling and send off-site for analyses.

03/28/01 Confirmatory analyses indicates that the Area 3 re-excavation (3rd depth) has met the cleanup criteria both horizontally and vertically. Completed Area 3 excavation. Commence backfilling of Area 3 excavation with clean fill.

03/29/01 Complete backfilling of Area 3.





KEY:

● BASE SOIL SAMPLE LOCATION

◉ SIDE WALL SAMPLE LOCATION

FIGURE 2-12

NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

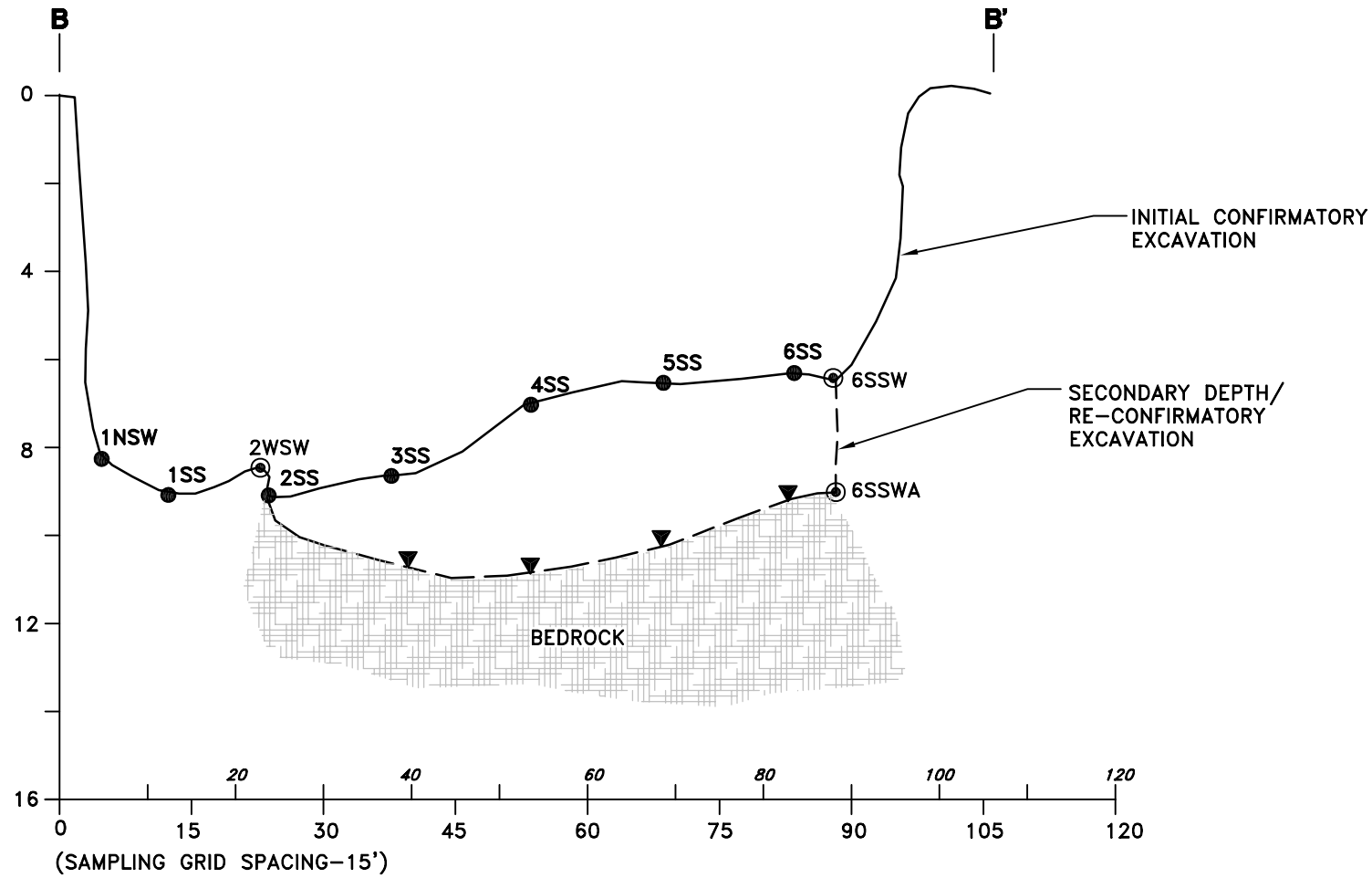
AREA 3

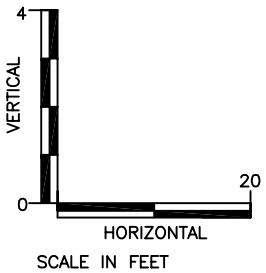
NORTH SOUTH CROSS SECTION OF EXCAVATION

- SECTION A-A' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG





KEY:

- ● BASE SOIL SAMPLE LOCATION
- ◉ SIDE WALL SAMPLE LOCATION
- ▼ BEDROCK ENCOUNTERED AT 2ND EXCAVATION DEPTH

FIGURE 2-13

NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 3
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION B-B' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG

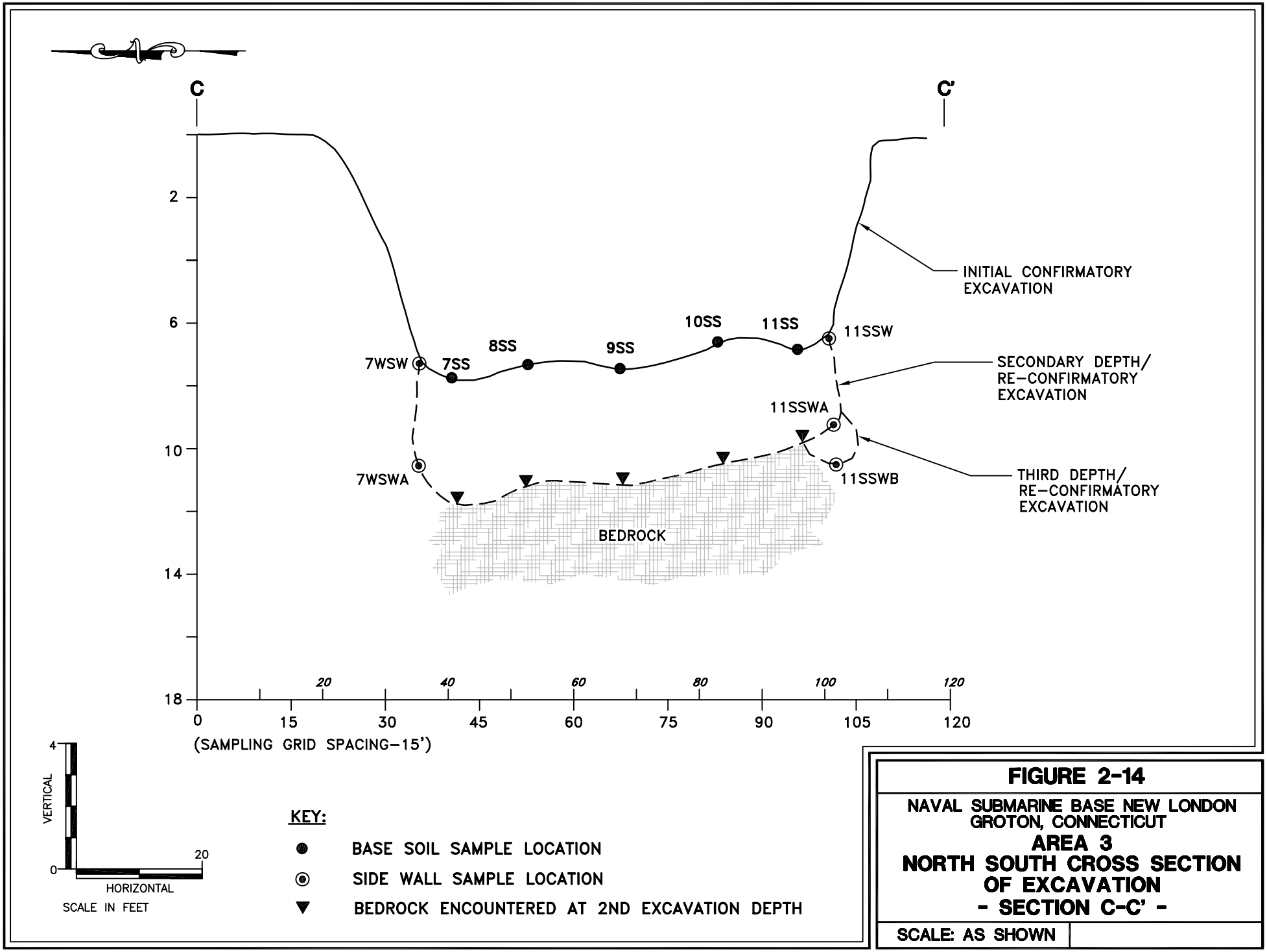


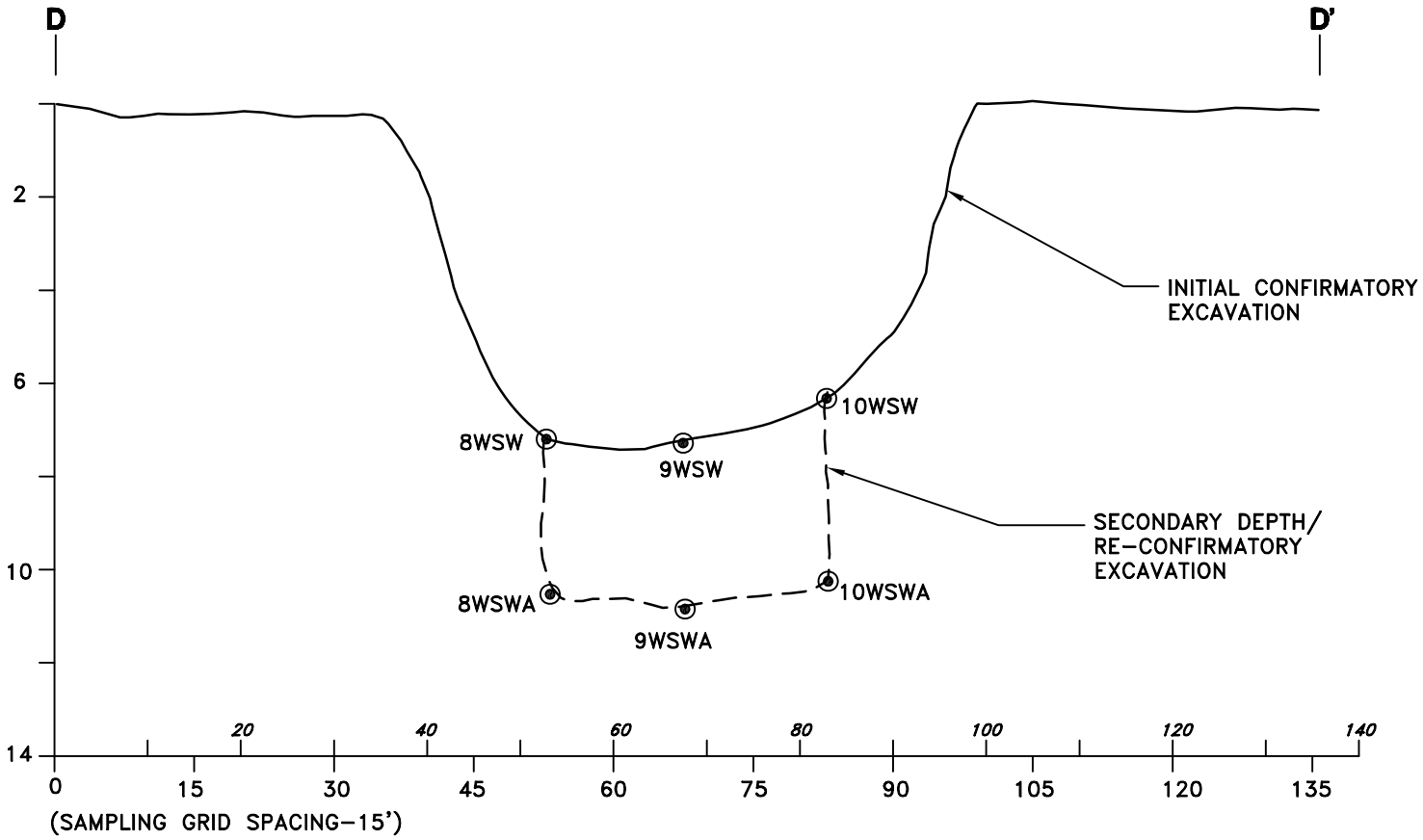
FIGURE 2-14

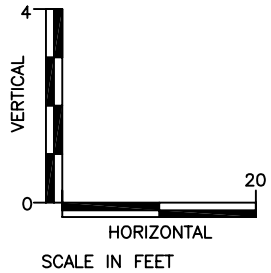
NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 3
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION C-C' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG





KEY:

- BASE SOIL SAMPLE LOCATION
- SIDE WALL SAMPLE LOCATION

FIGURE 2-15

NAVAL SUBMARINE BASE NEW LONDON
GROTON, CONNECTICUT

AREA 3
NORTH SOUTH CROSS SECTION OF EXCAVATION
- SECTION D-D' -

SCALE: AS SHOWN

CADDFILE: 1284_V_002.DWG

2.6 Restoration

As described within Section 1.2.8 of the Work Plan, all areas of excavation were backfilled with certified clean fill once confirmatory analyses indicated that the excavation met or exceeded the clean-up criteria as described in Section 3.2.2 of the Work Plan. Certified clean backfill was considered fill that meets the Industrial/Commercial Direct Exposure Criteria within the CTDEP Remediation Standard (22a-133k). All fill material and topsoil was imported from off-site locations (Appendix F contains the clean fill certification letter). Borrow material was compacted in-place by proof rolling. The following borrow facility was used for this project:

Richmond Sand and Gravel Company
P.O. Box 389
Stilson Road
Wyoming, RI 02898

No top-seeding operations were performed since the area is scheduled to be used for equipment storage in the near future. Asphalt will be re-layed on areas which required removal. A more detailed discussion of back fill sampling and analyses is contained in Section 3.5 of this report.

3.0 SAMPLING AND ANALYSIS

3.1 Sampling and Laboratory Analysis Programs

Sampling and analysis was performed in support of remedial activities during the A-85 CSA Closure program. All sampling activities were performed in accordance with the Work Plan. The following bulleted list outlines each group of sampling and analysis conducted:

- Post-excavation confirmatory sampling and analysis;
- Waste characterization; and
- Backfill screening.

A short discussion of each of these sampling and analysis programs, including results, where appropriate is included in the following sections.

3.2 Pre-Excavation Investigative Sampling

3.2.1 Building A-85 CSA Bunker

As described within Section 3.2.1 of the Work Plan, five additional samples (BCC-1, BCC-2, BCF-1, BCF-2, and BCF-3) were collected and analyzed from the floor of the bunker. Concrete chip sampling was performed on two cracks on the floor (BCC-1 and BCC-2). The cracks were determined not to extend to the soil beneath the concrete slab by chipping the cracks, with a rock hammer, until the bottom was exposed**.** These samples were sent off-site and analyzed for VOCs, SVOCs, PCBs, and RCRA 8 metals plus nickel, zinc, and copper. All metals, VOC, SVOC, PCBs, and TPH were below the cleanup criteria. Sample BCC-2 did indicate a lead level (3.0 ppm) at the GB PM criteria of 3.0 ppm. Furthermore, SPLP analyses was performed on sample BCC-2 for chromium. Analyses indicated levels below the GB PM Criteria.

Concrete chip sampling was also performed on three areas (BCF-1, BCF-2, and BCF-3) of visible surface contamination (staining) in the bunker and analyzed for PCBs, VOCs, SVOCs, and RCRA 8 metals plus nickel, zinc, and copper. All three exceeded the GB PM Criteria for lead and sample BCF-3 exceeded for mercury and silver. These samples were re-run (BCF-1B, BCF2-A, and BCF-3A) for SPLP for lead (mercury and silver as applicable) and indicated non-detect levels at the appropriate detection limits. Analyses of sample BCF-1 also indicated SVOC (bis(2-ethyl hexyl) phthalate levels above the CTDEP Industrial/Commercial Direct Exposure Criteria. This sample was re-sampled since the SVOC, bis(2-ethyl hexyl) phthalate, is a common equipment contaminant associated with Nitrile sampling gloves. The second sample (BCF-1A) also exceeded the cleanup criteria for bis(2-ethyl hexyl) phthalate**.** Therefore, this location BCF-1 required to be re-evaluated for remedial action. The area of the staining location BCF-1 was removed using a jackhammer to a depth of about 6 inches where no staining was observed to be present. Sample BCF-1B was taken as a confirmatory analyses and indicated non-detect levels of SVOCs (except Isophorone, for which there is no CTDEP Industrial Commercial Direct Exposure Criteria). Tables 3-1 to 3-6 summarize these results. No VOCs, TPH, or PCBs exceeded the criteria. SPLP analyses was also run and indicated non-detect levels for chromium and lead.

3.3 Post-removal and Excavation Confirmatory Sampling and Analysis

The purpose of this sampling and analysis was to confirm that the cleanup criteria at each excavation had been met prior to closing the excavation. Each sample was a grab sample taken from either the base or the sidewall of the excavation. These grab samples were representative of levels of contaminants in-situ.

Upon laboratory confirmation that the cleanup criteria was met, excavations were backfilled with certified clean fill. The following sections detail the sampling and analysis from each phased depth of excavation. Tables 2-1 to 2-5 show the Cleanup Criteria for the media of concern at the site.

The purpose of the map on Figure 2-1 and the summary tables is to document the approximate final extents of excavation, the approximate locations of samples taken at the final extents of excavation, and to present the data from these samples in tabular form. All of the samples sent to the laboratory or the respective analytical data are presented on the maps or in the tables.

3.3.1 Soil Beneath Wooden Sheds

Additional sampling in the soils beneath the storage sheds was also performed. Following the removal of the sheds, a soil sample (composite) was collected from beneath the location of each row of sheds (east and west). These were analyzed for SVOCs, VOCs, TPH, PCBs, and RCRA 8 metals plus copper, nickel, and zinc as described within Table 3-1 of the Work Plan. The sample SH-WSS represented the sheds that lined the western side of the A-85 CSA. Analyses of this sample indicated that there were no elevated levels of SVOCs, VOCs, TPH, or PCBs that exceeded the CTDEP Industrial Commercial Direct Exposure Criteria or GB Pollutant Mobility limits for metals. The sample SH-ESS represents those sheds that were located on the eastern side of the A-85 CSA. Tables 3-7 to 3-11 provide a summary of the analytical results for the soil beneath the sheds. All soil results from this area did not exceed the CTDEP Industrial/Commercial Direct Exposure Criteria for the above mentioned analytes. Therefore, no remedial action within this area is necessary.

3.3.2 Area 1 Excavation

As discussed within Section 2.5.1, excavation activities were performed to a total of three depths as required to meet the TPH and arsenic cleanup criteria for Area 1. This excavation required the greatest amount of soil removal (approximately 751 tons) of the three areas. These limits of the excavation are shown on Figure 2-1 and discussed in further detail below.

Initial Excavation

For the initial excavation on the western side of the excavation, samples 10NSW, 15NSW, 16WSW, 17WSW, 18WSW, 19SSW, 13SSW, and 12SSW all exceeded the GB Pollutant Mobility (PM) Criteria for lead (0.15 ppm). All samples from the previous list except 10NSW, 17WSW, and 13 SSW also exceeded the GB PM Criteria for chromium (0.5 ppm). Sample 16WSW also exceeded the CTDEP Industrial/Commercial Direct Exposure Criteria for arsenic (10 ppm). The remaining sample locations on the western side, 10SS, 10ESW, 11SS, 11ESW, 12SS, 12ESW, 13SS, and 14SS all indicated elevated levels of metals (primarily lead, chromium, and nickel) for the initial investigation. However, bedrock was encountered when this area was re-excavated in the horizontal direction. Samples 10SS, 10NSW, 11SS, 11ESW, 12 SSW, 14SS, and 15NSW all exceeded the CTDEP Industrial/Commercial Direct Exposure Criteria for the SVOC benzo(a)pyrene (1 ppm). Sample 16WSW exceeded the CTDEP Industrial/Commercial Direct Exposure Criteria for the SVOC benzo(a)pyrene (1 ppm), benzo(b)flouranthene (7.8 ppm), and benzo(a)anthracene (7.8 ppm). Samples 15SS and 12ESW did not indicate levels above the cleanup criteria for any analyses during the initial excavation.

Initial confirmatory analyses of the eastern side of Area 1 indicated elevated levels of arsenic which exceeded the CTDEP Industrial/Commercial Direct Exposure Criteria of 10 ppm along the eastern sidewall. These included samples 1NSW, 1ESW, 1SS, 2SS, and 4ESW. Samples 1NSW, 1NESW, 1SS, 2ESW, 3SS, 4ESW, 5ESW, 5SS, and 5SSW exceeded the GB PM Criteria for lead (0.15 ppm). Samples

2SS, 3ESW, and 4SS exceeded the GB PM Criteria for both lead (0.15 ppm) and chromium (0.5 ppm). Samples 2SS, 4SS, 5SS, 6SSW, and 7SS all exceeded the CTDEP Industrial/Commercial Direct Exposure Criteria for the SVOC benzo(a)pyrene (1 ppm).

Samples 1NSW-A, 1NESW-A, 5SSW, 6SSW, and 9NSW were analyzed for chromium, lead, arsenic extractables and SPLP analysis as appropriate. Resulting analysis of these samples indicates non-detect levels at the appropriate detection levels.

Figures 2-2 to 2-8 provide cross-sections at this depth, for both the western and eastern sides, and include actual depth measurements of where samples were collected for confirmatory and re-confirmatory analyses.

Second Depth Excavation

Second depth confirmatory data analyses on the western side of the excavation confirmed that the cleanup criteria had been achieved for those locations that had previously indicated exceedances including 10NSW, 15NSW, 16WSW, 17WSW, 18WSW, 19SSW, 13SSW, and 12SSW of metals (primarily arsenic, chromium, and lead) and SVOCs (primarily benzo(a)pyrene, benzo(a)anthacene, and benzo(b)flouranthene). Areas where bedrock was encountered were not sampled and analyzed.

Second depth excavation for the eastern side of the area required total removal of the sidewall due to its location on a steep slope. Therefore, no east sidewall soil remained to be sampled following re-excavation. Excavation also confirmed that the cleanup criteria had been achieved for those locations that had previously indicated exceedences including sample 2SS and 1SS for arsenic contamination.

Resampling of the base locations (1SS-A, 2SS-A, 3SS-A, 4SS-A, 5SS-A, 6SS-A, 7SS-A, 8SS-A, and 9SS-A) at the greater depth were found to have met the GB PM Criteria for chromium and lead, as applicable above. Sample 7SS-A exceeded the GB PM Criteria for lead during the second round of confirmatory analyses at greater depth.

Figures 2-2 to 2-8 provide cross-sections at this depth, for both the western and eastern sides, and includes actual depth measurements of where samples were collected for confirmatory and confirmatory analyses.

Third/Final Depth Excavation

Location 7SS was the only location to be excavated a third time due to continued elevated levels of lead as compared to the GB PM criteria. Upon further evaluation of the Area 1 data, sample A1-1NSW indicated a total arsenic (80 ppm) exceedence of the CTDEP Industrial/Commercial Direct Exposure Criteria. This sample was analyzed and again exceeded at 78 ppm arsenic. Therefore, this location was re-excavated and sampled (sample ID A1-1NSW-A). This analyses indicated non-detect levels of arsenic at the appropriate detection limit. The third round of initial analyses at depth and the re-excavation and re-sampling of location A1-1NSW confirmed that the cleanup criteria had been achieved and the excavation was considered complete.

Figures 2-2 to 2-8 provide cross-sections at this depth, for both the western and eastern sides, and include actual depth measurements of where samples were collected for confirmatory and re-confirmatory analyses.

Tables 3-12 to 3-15 present a summary of the metals, SVOC, VOC, and TPH data, respectively. Appendices D-1 and D-4 contain the raw data.

3.3.3 Area 1 Sampling Event Chronology

03/14/01 Layout Area 1 sampling grid. Nine initial excavation base soil samples (1SS, 2SS, 3SS, 4SS, 5SS, 6SS, 7SS, 8SS, and 9SS) were collected and sent off-site for VOCs, SVOCs, TPH, and RCRA 8 metals plus nickel, zinc, and copper analyses.

03/15/01 Ten initial excavation base soil samples (10SS, 11SS, 12SS, 13SS, 14SS, 15SS, 16SS, 17SS, 18SS, and 19SS) were collected and sent off-site for VOCs, SVOCs, TPH, and RCRA 8 metals plus nickel, zinc, and copper analyses.

Twenty-one initial excavation sidewall samples (1NESW, 1SESW, 1NSW, 2ESW, 3ESW, 4ESW, 5ESW, 5SSW, 6SSW, 9NSW, 10NSW, 10ESW, 11ESW, 12ESW, 12SSW, 13SSW, 15NSW, 16WSW, 17WSW, 18WSW, and 19SSW) were collected and sent off-site VOCs, SVOCs, PCBs, TPH, and RCRA 8 metals plus nickel, zinc, and copper analyses.

03/21/01 Initial analyses indicated the need for further vertical excavation. Therefore, nine second depth excavation base soil samples (1SS-A, 2SS-A, 3SS-A 4SS-A, 5SS-A, 6SS-A, 7SS-A, 8SS-A, and 9SS-A) were collected and sent off-site for RCRA 8 metals plus nickel, zinc, and copper analyses**.** During second depth excavation activities on the western side, bedrock was encountered and the vertical excavation was considered complete on this side.

03/26/01 Initial analyses indicated the need for further horizontal excavation. Therefore, nine second depth excavation sidewall samples (10NSW-A, 11ESW-A, 12SSW-A, 13SSW-A, 15NSW-A, 16WSW-A, 17WSW-A, 18WSW-A, and 19WSW-A) were collected on the western side and sent off-site for RCRA 8 metals plus nickel, zinc, and copper analyses.

03/26/01 Upon analyses of the secondary depth confirmatory data for the eastern side of the area, one sample (7SS-A) indicated elevated levels of lead above the cleanup criteria. Therefore, the excavation was continued to a third depth at this location and a sample (7SS-B) was collected and analyzed. This sample met the cleanup criteria and the excavation was considered complete.

06/13/01 Since samples A1-1NESW, A1-SESW, and A1-6SSW exceeded the CTDEP GB Pollutant Mobility Criteria 20-times rule for lead, they were analyzed for TCLP lead. Sample 1NSEW was requested to be re-analyzed for total arsenic and TCLP arsenic and lead. Sample A1-9NSW was analyzed for TCLP chromium and lead. These analyses were requested as the result of evaluation of the original laboratory data.

3.3.4 Area 2 Excavation

As discussed within Section 2.5.3, this area was located beneath the former Silver Recovery Building (Building 545) and required the least amount of soil removal at approximately 25 tons. It was necessary to remove three depths of soil to meet the cleanup criteria for this area. Furthermore, since the total horizontal extent of the excavation reached approximately 10 feet by 8 feet, the area did not encompass a full 15 foot X 15 foot grid. Therefore, no unique grid sample ID was applied. These limits of the excavation are shown on Figure 2-1 and discussed in further detail below**.**

Initial Excavation

The initial excavation reached an approximate depth of 6 feet bgs. One sample (A2-NSW, A2-WSW, A2-SSW, and A2-ESW) from each sidewall was collected and analyzed for TPH, SVOCs, VOCs, and RCRA 8 metals plus Ni, Cu, and Zn. The initial analyses indicated that one sidewall sample (A2-ESW) exceeded both the CTDEP Industrial/Commercial Direct Exposure Criteria and the GB PM Criteria for arsenic. Furthermore, all sidewall samples were indicated to exceed the GB PM criteria for this site for lead (3.0 ppm). Three samples (A2-ESW, A2-SSW, and A2-WSW) also exceeded the GB PM criteria for chromium. The base sample (A2-SS) was analyzed and found to have no exceedances. No SVOC, VOC, or TPH exceedence were present during this initial sampling. Figures 2-9 to 2-11 provide cross-sections at this depth and includes actual depth measurements of where samples were collected for confirmatory and re-confirmatory analyses.

Since samples A2-NSW, A2-SSW, A2-WSW exceeded the CTDEP GB Pollutant Mobility Criteria 20-times rule, they were analyzed for SPLP lead and chromium analysis, as appropriate. Analysis of this data indicated non-detect levels at the appropriate detection limits.

Second Depth Excavation

The eastern wall was re-excavated and removed. Due to the small site of the excavation, the base sample (A2-SS) was re-excavated horizontally for approximately 1 foot. The only soil remaining was at the base. This was sampled (A2-SS-A) and analyzed. This sample exceeded the GB pollutant mobility criteria for chromium and lead. Figures 2-9 to 2-11 provide a cross-section at this depth and includes actual depth measurements of where samples were collected for confirmatory and re-confirmatory analyses.

Third Depth Excavation

Soil removal continued in the horizontal direction for approximately another 1.5 feet. A sample (A2-SS-B) was collected and analyzed which indicated that the Cleanup Criteria had been met. Therefore, the excavation was considered complete. Figures 2-9 to 2-11 provide cross-sections at this depth and include actual depth measurements of where samples were collected for confirmatory and re-confirmatory analyses.

Tables 3-16 to 3-19 present a summary of the metals, SVOC, VOC, and TPH data, respectively. Appendices D-2 and D-4 contain the raw data.

3.3.5 Area 2 Sampling Event Chronology

03/12/01 Initial excavation side-wall samples (A2-NSW, A2-ESW, A2-WSW, and A2-SSW) and the base sample (A2-SS) were collected and sent off-site for TPH, SVOCs, VOCs, and RCRA 8 metals plus Ni, Cu, and Zn analyses.

03/21/01 Analyses of the four side-wall samples indicated that further excavation was not required since the cleanup criteria had been met. However, the eastern sidewall sample (A2-ESW) did not meet the cleanup criteria for arsenic.

Additional excavation of the eastern sidewall removed all soil from that wall and extended the excavation of the base by 1 foot. Confirmatory sample A2-SS-A was collected and analyzed for RCRA 8 metals plus nickel, copper and zinc.

03/26/01 The excavation continued vertically to a third depth where sample A2-SS-B was collected and sent off site for analyses. Confirmatory analyses of the base indicated that the cleanup criteria had been achieved. Thus, the excavation was considered complete.

06/13/01 Since samples A2-SSW and A2-WSW exceeded the CTDEP GB Pollution Mobility Criteria 20-times rule, they were analyzed for TCLP chromium and lead. Sample A2-NSW was analyzed for TCLP lead. This analysis was requested as the result of evaluation of the original laboratory data.

3.3.6 Area 3 Excavation

Three excavation depths were required at this area to meet the cleanup criteria. These limits of the excavation are shown on Figure 2-1 and discussed in further detail below**.**

Initial Excavation

The initial excavation base proceeded to approximately 7 to 8 feet bgs. The sidewalls were excavated to approximately 7 feet bgs. The base samples 2SS, 3SS, 4SS, and 5SS all exceeded the CTDEP Industrial/Commercial Direct Exposure Criteria for arsenic (10 ppm) after analyses review. Base samples 3SS, 4SS, 5SS, 6SS, 7SS, 8SS and 10SS all exceeded the GB PM Criteria for both lead (0.15 ppm) and chromium (0.5 ppm). Base sample 9SS only exceeded the GB PM Criteria for chromium (0.5 ppm). Only base sample, sample 5SS, exceeded the SVOCs (benzo(a)pyrene – 1 ppm) CTDEP Industrial/Commercial Direct Exposure Criteria.

Samples 6SSW, 10WSW, 9WSW, and 8WSW of the sidewall samples of the excavation exceeded the CTDEP Industrial/Commercial Direct Exposure Criteria for arsenic. Furthermore, samples 2WSW, 5ESW, 6SSW, 11SSW, 10WSW, 9WSW, and 8WSW exceeded the GB PM Criteria for both lead (0.15 ppm) and chromium (0.5 ppm). Samples 2ESW, 4ESW, and 7WSW only exceeded the GB PM Criteria for lead (0.15 ppm). SVOCs (benzo(a)pyrene – 1 ppm) were also in exceedance of the CTDEP Industrial/Commercial Direct Exposure Criteria at sidewall samples 7WSW and 10WSW.

Figures 2-12 to 2-15 provide cross-sections at this depth and include actual depth measurements of where samples were collected for confirmatory and re-confirmatory analyses.

Second Depth Excavation

The excavation was continued in both the vertical and horizontal directions as required by the above analytical data in excess of the cleanup criteria. The base, including sample locations 2SS, 3SS, 4SS, 5SS, 6SS, 7SS, 8SS, 9SS, 10SS, and 11SS, was re-excavated to a final depth of approximately 10 to 13 feet where bedrock was encountered. At this time the excavation was considered complete in the vertical direction.

The sidewalls on the excavation's western side were re-sampled (4ESW and 5ESW) and analyzed once the excavation reached approximately 10 feet bgs. Both samples indicated lead and chromium levels beneath the cleanup criteria. The northern sidewall was sampled (7WSW-A) after the second excavation at approximately 11 feet bgs. This sample also met the cleanup criteria for both lead and SVOCs. The eastern sidewall samples (8WSW-A, 9WSW-A, and 10WSW-A) met the CTDEP Industrial/Commercial Direct Exposure Criteria for arsenic and SVOCs and the GB PM Criteria for chromium and lead during this second excavation to a depth of approximately 10.5 feet bgs. The southern sidewall sample 6SSW met the CTDEP Industrial/Commercial Direct Exposure Criteria for arsenic and the GB PM Criteria for chromium and lead. However, southern sidewall sample 11SSW-A again exceeded the GB PM Criteria for lead and required further excavation.

Figures 2-12 and 2-15 provide cross-sections at this depth and include actual depth measurements of where samples were collected for confirmatory and re-confirmatory analyses.

Third Depth Excavation

Sample location 11SSW, on the southern sidewall, was re-excavated at an approximate depth of 10.5 feet bgs. When this depth was sampled (11SSW-B) and analyzed, the data indicated that lead had met the GB PM Criteria of 0.15 ppm and the excavation was then considered complete.

Figures 2-12 to 2-15 provide cross-sections at this depth and include actual depth measurements of where samples were collected for confirmatory and re-confirmatory analyses.

Tables 3-20 to 3-23 present a summary of the metals, SVOC, VOC, and TPH data, respectively. Appendix D-3 and D-4 contain the raw data.

3.3.7 Area 3 Sampling Event Chronology

03/13/01 Eleven initial excavation base samples (1SS, 2SS, 3SS, 4SS, 5SS, 6SS, 7SS, 8SS, 9SS, 10SS, and 11SS) were collected and analyzed for TPH, SVOCs, VOCs, and RCRA 8 metals plus Ni, Cu, and Zn.

Eleven initial side-wall samples (1SW, 2ESW, 3ESW, 4ESW, 5ESW, 6SSW, 7WSW, 8WSW, 9WSW, 10WSW, and 11SSW) were collected and analyzed for TPH, SVOCs, VOCs, and RCRA 8 metals plus Ni, Cu, and Zn.

03/21/01 Confirmatory analyses of the initial round of base samples indicated that the bottom of the excavation exceeded the CTDEP Industrial/Commercial Direct Exposure Criteria for arsenic (samples 2SS, 3SS, 4SS, 5SS, and 8SS). Furthermore, the chromium and lead GB PM criteria was also exceeded at the base (samples 3SS, 4SS, 5SS, 6SS, 7SS, 8SS, 9SS, 10SS, and 11SS). SVOCs (benzo(a)pyrene exceeded the cleanup criteria only in one base sample (5SS). Therefore, further excavation of the

base was performed until bedrock was encountered. At this time the excavation in the vertical direction was considered complete.

Analyses of the initial sidewall samples indicated elevated levels of chromium and lead (as applicable) above the GB PM Criteria for all four sides. Also, SVOCs (Benzo(a)pyrene) indicated levels above the CTDEP Industrial/Commercial Direct Exposure Criteria for two samples (7WSW and 10WSW). Therefore, the excavation continued to a second depth on all sides and was sampled (4ESW-A, 5ESW-A, 6SSW-A, 7WSW-A, 8WSW-A, 9WSW-A, 10WSW-A, and 11SSW-A).

03/26/01 The second round of side-wall confirmatory sampling analyses confirmed that the cleanup goals head been achieved for metals and SVOCs in all but one (11SSW) of the above sample locations. This location was further excavated to a third depth and sampled. Confirmatory analyses reviewed for his sample indicated that the cleanup criteria had been achieved and the excavation was considered complete.

3.4 Waste Characterization

Waste generated during site activities was sampled in order to characterize the waste for disposal. Waste included, shed demolition debris, concrete debris (from bunker demolition), and excavated soil. Asphalt waste was sent off-site for disposal as non-hazardous solid waste. Equipment decontamination occurred over the contaminated soil on the last truck leaving the site for off-site disposal.

The purpose of this sampling and analysis was to properly characterize waste for off-site disposal or recycling. Waste characterization was performed in accordance with Section 3.2.3 of the Work Plan.

3.4.1 Bunker Demolition Debris

Concrete waste was produced as a result of demolishing the Building A-85 CSA Bunker. The outer wall and inner arched supporting roof was constructed with concrete with rebar. Approximately 162 tons of concrete with rebar was stockpiled as part of this effort and one composite sample (CP) was collected for waste characterization. This sample was analyzed for SVOCs, VOCs, PCBs, and RCRA 8 metals**.** Levels did not exceed the RCRA criteria and therefore, the waste was shipped off-site as non-hazardous.

The results of the concrete waste characterization analyses are summarized in Tables 3-25 to 3-28 for metals, VOCs, SVOCs, and PCBs, respectively. Appendix E-1 contains the raw data.

3.4.2 Shed Demolition Debris

A composite sample of the wooden storage shed demolition debris was collected as described in Appendix D of the Work Plan, the CTDEP Guidance for the Management and Disposal of Lead Contaminated Materials Generated in the Lead Abatement, Renovation, and Demolition Industries. The sample (WS) was analyzed for extractable and total lead. Total lead levels did not exceed the RCRA criteria, therefore this material was shipped off-site for disposal as non-hazardous waste (i.e., lead paint).

The results of the wood waste characterization are summarized in Table 3-24. Appendix E-2 contains the raw data.

3.4.3 Excavated Contaminated Soils

Contaminated soils were stockpiled as they were being excavated from the three areas requiring removal as part of this RCRA Closure. Approximately 751 tons of contaminated soil was removed and stockpiled from Area 1, 25 tons from Area 2, and 476 tons from area 3. Composite samples were collected for waste characterization sampling, at a frequency of one sample per 100 cubic yards. Analyses included TPH, VOCs, RCRA Metals, Flashpoint, pH, Reactive Cyanide, and Reactive Sulfide for each stockpile. Stockpile 1, 2, and 3 were sampled (SP1, SP2, SP3) on 03/01/01 and analyzed. Flashpoint, pH, Reactive Cyanide, and Reactive Sulfide analyses data was provided for off-site disposal. Results of this waste characterization showed that the waste was a non-hazardous waste appropriate for disposal at a non-hazardous facility.

Five additional stockpiles (SP4-A, SP5-A, SP6-A, SP7-A, and SP8-A) were also sampled for waste characterization which included metals, VOCs, SVOCs, PCBs, and TPH. Flashpoint, pH, Reactive Cyanide, and Reactive Sulfide analyses data was provided for off-site disposal. Results of this waste characterization showed that the waste was a non-hazardous waste appropriate for disposal at a non-hazardous facility.

The results of stockpile analyses for the three areas are summarized in Tables 3-29 to 3-34 for metals, VOCs, SVOCs, PCBs, TPH and hazard characteristics, respectively. Appendix E-2 contains the raw data.

3.5 Backfill Screening

The soil that was removed as part of the bunker demolition action was sampled (BF, BF-1, BF-2, BF-3, BF-4, and BF-5) to determine its applicability for use as potential backfill. SVOC analyses was conducted on all backfill screening samples (BF, BF-1, BF-2, BF-3, BF-4, and BF-5). Samples BF, BF-1, BF-2, and BF-3 exceeded the CTDEP Industrial/Commercial criteria for the SVOC benzo[a]pyrene. Two samples (BF-2 and BF-3) also exceeded the criteria for SVOCs benz[a]anthracene and benzo[b]fluoranthene. Samples BF-4 and BF-5 did not exceed the cleanup criteria for these SVOCs. Sample, BF, was the only sample analyzed for VOCs, PCBs, and TPH, all of which indicated levels below the cleanup criteria.

As a result of the above analyses, the potential backfill was determined not to be adequate for use. Therefore, the soil was temporarily stockpiled. Per Navy direction, approximately 400 tons of this stockpiled soil was transported off-site for disposal as non-hazardous waste on July 5, 2001. Approximately 800 tons of material remains on the site and has been stockpiled, appropriately sloped, and has been hydro-seeded on July 12, 2001 to prevent any soil sloughing and potential migration of material. This approach was due to the budgetary constraints of the project. Appendix G contains the waste disposal documentation for this waste.

Certified clean fill from an off-site borrow source was used to backfill all three areas of excavation. The clean fill certification letter is contained within Appendix F of this report. The results are summarized in Tables 3-35 to 3-38 for VOCs, SVOCs, PCBs, and TPH, respectively. Appendix E-2 contains the raw data.

4.0 TRANSPORTATION AND DISPOSAL

The actual area of soil contamination was greater than the estimated volume of areas of contamination as described in the Work Plan. The RCRA Clean Closure program required excavation and removal of the entire area of soil contamination. All totals are approximate for each excavated area because non-hazardous waste was not segregated. The final total of soil removed, 1252.38 tons, is exact based on weight tickets from the receiving disposal and recycling facilities. This total represents all soil removed from the site as part of this closure. See Table 4-1 for the Waste Disposal Summary for all phases of excavation and miscellaneous waste. Photocopies of waste disposal documentation for Sampling and Analysis Waste and Site Demobilization Waste (asterisked items in Table 4-1) are included in Appendix F.

4.1 Area 1 Excavation

Depth of excavation ranged from 5 to 11 feet bgs in Area 1. Approximate dimensions of the final excavation are 65 feet (length) X 56 feet (width) X 5 feet (depth - varies). Bedrock was encountered at the base of the western side of the excavation. Additional excavation in the horizontal and vertical direction was necessary in some areas following post-excavation confirmatory sampling. The total quantity of contaminated soil removed from Area 1 was approximately 751 tons.

4.2 Area 2 Excavation

Depth of excavation ranged from 5 to 8 feet bgs in Area 2. Approximate dimensions of the final excavation are 10 feet (length) X 9 feet (width) X 5 feet (depth - varies). Excavation to three depths were required in some areas following post-excavation sampling. The total quantity of contaminated soil removed from Area 2 was approximately 25 tons.

4.3 Area 3 Excavation

Depth of excavation ranged from 6 to 13 feet bgs in Area 3. Approximate dimensions of the final excavation are 60 feet (length) X 30 feet (width) X 6 feet (depth - varies). The midpoint of the base running north/south encountered bedrock at roughly 11 feet bgs. Excavation to three depths was required in one area on the southern side-wall. The total quantity of contaminated soil removed from Area 3 was approximately 476 tons.

4.4 Potential Backfill (Bunker Cover Soil)

As discussed within Section 3.5 above, approximately 1,200 tons of soil was generated as the result of the Bunker demolition. Analysis indicated that this material was not suited for backfill purposes and required removal and off-site disposal. Therefore, the soil was temporarily stockpiled. Per Navy direction, approximately 400 tons of this stockpiled soil was transported off-site for disposal as non-hazardous waste on July 5, 2001. Approximately 800 tons of material remains on the site and has been stockpiled, appropriately sloped, and has been hydro-seeded on July 12, 2001 to prevent any soil sloughing and potential migration of material. This approach was due to the budgetary constraints of the project.

4.5 Disposal Summary

Table 4-1 within the tables section of this report includes a summary of the waste disposal activities as they pertain to this closure and includes all excavated soil, demolition concrete and wood debris waste, and asphalt waste. These include a description of the waste, approximate quantities, and a description of the receiving recycling/disposal facility.

5.0 DEPARTURES FROM CLOSURE PLAN

TtEC carried out three departures from the Part II/III RCRA Closure Plan, dated August 1999 during the field execution of the project. Descriptions of these departures are discussed below and include:

- Building A-85 CSA Bunker Demolition
- Confirmatory Sampling Program
- Segregation of Contaminated Soils

5.1 A-85 CSA Bunker Demolition

As described within Section 1.1.1 of the Work Plan, the bunker was not included in the list of structures at the site to be closed. The bunker was to be left in-place to be made available for some other use on the base. However, during a recent SUBASENLON Safety Inspection, the structure was determined to be in an unsafe condition. In particular, the two large metal doors and their mounting hinges were observed to be loose. Also, the front wall had separated from the structure and was unstable, posing a threat of injury or death to the field crew. Contained within Appendix C is a correspondence between SUBASENLON Environmental Department and the SUBASENLON Department of Public Works detailing that every pre-caution should be taken in regards to the unsafe condition of the door. The concrete floor within the bunker required sampling as part of this closure. To alleviate this problem, the following solution was executed:

- TtEC proceeded to open and remove the doors remotely using the bucket of the excavator. At this time the front wall of the bunker collapsed as a result of it's deteriorating condition. The soil covering the concrete bunker was removed and stockpiled as potential backfill to expose the bunker for demolition. The entire bunker (old Quonset hut) was then removed to allow safe access to the concrete floor. The surrounding area was then re-graded.

5.2 Confirmatory Sampling Program

5.2.1 On-site Field Screening

Section 3.2.2 of the Work Plan states that in areas where TPH was the contaminant of concern, samples were to be screened on-site for TPH using the PAH immunoassay screening kits. This field screening was to direct excavation activities in the field regarding the excavation bottom and sidewalls. However, TtEC further evaluated this approach and determined that the levels of TPH, as indicated from initial investigations, were too low to be adequately used for a field screening approach. The immunoassay kits would not provide a reliable in-field reading to direct the cleanup. As a result, the following action was applied:

- All confirmatory samples were sent to an off-site laboratory for analyses.

5.2.2 Wooden Shed Confirmatory Soil Analyses

Section 3.2.1 of the Work Plan states that a soil sample (grab) will be collected from beneath the location of each of the eight storage sheds. However, a composite sample from the soil beneath the sheds on the east and western sides of the site was collected.

5.2.3 Sample GPD3

As described in Section 1.2.7 of the Work Plan, there were no PCB levels above the Industrial/Commercial Cleanup criteria of 10 ppm during the initial stage of the COC investigation. TtEC proposed to re-sample locations GPD3 since it had indicated the highest level of PCBs at 3.4 ppm. However, this location was not re-sampled during this remediation activity because it had been determined that the CTDEP Industrial/Commercial criteria was the clean-up criteria for PCBs for this project and the PCB levels for sample GPD-3 was below this criteria.

5.3 Segregation of Contaminated Soils

Segregation of arsenic contaminated soils did not occur as described within Section 1.2.7 of the Work Plan. The receiving facility did not require individual stockpiles nor did the soil require to be sent off as hazardous waste, due to the relatively low concentrations of arsenic.

6.0 PART A PERMIT WITHDRAWAL REQUEST

The current Part A permit for this facility is requested to be withdrawn. A new CSA facility has been erected at SUBASENLON for the purpose of storing and managing hazardous waste for greater than 90-days. This facility has submitted their part A application and it has been approved by the CTDEP review process. During recent discussions with the CTDEP Bureau of Waste Management, Waste Engineering and Enforcement Division, it was noted that this request is automatic and does not require the filing of any form or other notification action.

7.0 CERTIFICATION STATEMENT

This report presents the clean closure of the Building A-85 CSA located at SUBASENLON in Groton, CT. This clean closure was conducted in accordance with the Part I RCRA Closure Plan, dated June 6, 1997, Part II – Results of Site Characterization Program and Proposed Closure Approach and Part III Remediation, Verification, QA/QC, Certification Report. These reports complied with the requirements of the RCRA Closure Plan Guidance for Container Storage Areas and Tank Systems, November 1993 and the CTDEP Hazardous Waste Management Regulations 22a-449c.

Date	U.S. NAVY
13 Sept. 2005 Date	Susan R. Leach Independent Registered PE

STATE OF CONNECTICUT
SUSAN R. LEACH
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PROFESSIONAL ENGINEER

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TABLES

Table 2-1
Metals Cleanup Criteria
Site: Building A-85 CSA, SUBASENLON

Metals	Limits Ind/Com (mg/kg)	GB PM Criteria X 20
Arsenic	10	10
Barium	140000	200
Cadmium	1000	1
Chromium	100	10
Copper	76000	260
Lead Extractable	-	-
Lead Total	1000	3
Mercury	610	0.4
Nickel	7500	20
Selenium	10000	10
Silver	10000	7.2
Zinc	610000	1000

Table 2-2
SVOCs Cleanup Criteria
Site: Building A-85 CSA, SUBASENLON

SVOCs	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)
bis(2 Chloroethyl)ether	5.2	5200
Phenol	2500	2500000
2-Chlorophenol	2500	2500000
1,3-Dichlorobenzene	1000	1000000
1,4-Dichlorobenzene	240	240000
1,2-Dichlorobenzene	1000	1000000
Benzyl alcohol	N/A	N/A
bis(2-chloroisopropyl)ether	82	82000
2-Methylphenol	N/A	N/A
Hexachloroethane	410	410000
N-Nitroso-di-n-propylamine	N/A	N/A
4-Methylphenol	N/A	N/A
Nitrobenzene	N/A	N/A
Isophorone	N/A	N/A
2-Nitrophenol	N/A	N/A
2,4-Dimethylphenol	N/A	N/A
Benzoic acid	N/A	N/A
bis(2-chloroethoxy)methane	N/A	N/A
2,4-Dichlorophenol	2500	2500000
1,2,4-Trichlorobenzene	N/A	N/A
Napthalene	2500	2500000
4-Chloroaniline	N/A	N/A
Hexachlorobutadiene	N/A	N/A
4-Chloro-3-methylphenol	N/A	N/A
2-Methylnaphthalene	N/A	N/A
Hexachlorocyclopentadiene	N/A	N/A
2,4,6-Trichlorophenol	N/A	N/A
2,4,5-Trichlorophenol	N/A	N/A
2-Chloronapthalene	N/A	N/A
2-Nitroaniline	N/A	N/A
Acenaphthylene	2500	2500000
Dimethylphthalate	N/A	N/A
2,6-Dinotrotoluene	N/A	N/A

SVOCs	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)
Acenaphthene	N/A	N/A
3-Nitroaniline	N/A	N/A
2,4-Dinitrophenol	N/A	N/A
Dibenzofuran	N/A	N/A
2,4-Dinitrotoluene	N/A	N/A
4-Nitrophenol	N/A	N/A
Fluorene	2500	2500000
4-Chlorphenyl-phenylether	N/A	N/A
Diethylphthalate	N/A	N/A
4-Nitroaniline	N/A	N/A
4,6-Dinitro-2-methylphenol	N/A	N/A
n-Nitrosodiphenylamine	N/A	N/A
4-Bromphenyl-phenylether	N/A	N/A
Hexachlorobenzene	3.6	3600
Pentachlorophenol	48	48000
Phenanthrene	2500	2500000
Anthracene	2500	2500000
Di-n-butyl phthalate	2500	2500000
Fluoranthene	2500	2500000
Pyrene	2500	2500000
Butyl benzyl phthalate	2500	2500000
3,3'-Dichlorobenzidine	N/A	N/A
Carbazole	N/A	N/A
Benz[a]anthracene	7.8	7800
Chrysene	N/A	N/A
bis(2-ethyl hexyl)phthalate	410	410000
Di-n-octyl phthalate	2500	2500000
Benzo[b]fluoranthene	7.8	7800
Benzo[k]fluoranthene	78	78000
Benzo[a]pyrene	1	1000
Indeno[1,2,3-cd]pyrene	N/A	N/A
Dibenz[a,h]anthracene	N/A	N/A
Benzo[g,h,I]perylene	N/A	N/A

Table 2-3
VOCs Cleanup Criteria
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits ug/kg
Dichlorodifluoromethane	-	-
Chloromethane	-	-
Vinyl chloride	3	3000
Bromomethane	-	-
Chloroethane	-	-
Trichlorofluoromethane	-	-
Acetone	1000	1000000
1,1-Dichloroethene	9.5	95000
Carbon disulfide	-	-
Methylene chloride	760	760000
Methyl tert-butyl ether(MTBE)	1000	1000000
trans-1,2-Dichloroethene	1000	1000000
1,1-Dichloroethane	1000	1000000
Vinyl acetate	-	-
2-Butanone (MEK)	1000	1000000
cis-1,2-Dichloroethene	1000	1000000
2,2-Dichloropropanone	-	-
Chloroform	940	940000
1,1,1-Trichloroethane	1000	1000000
1,1-Dichloropropene	-	-
Carbon tetrachloride	44	44000
Benzene	200	200000
1,2-Dichloroethane	1000	1000000
Trichloroethene	520	520000
1,2-Dichloropropane	84	84000
Dibromomethane	-	-
Bromodichloromethane	-	-
2-Chloroethylvinyl ether	-	-
Methyl isobutyl ketone (MIBK)	1000	1000000
cis-1,3-Dichloropropene	32	32000
Toluene	1000	1000000
trans-1,3-Dichlororopene	32	32000
1,1,2-Trichloroethane	100	100000

VOCs	Ind/comm (mg/Kg)	Adjusted Limits ug/kg
2-Hexanone	-	-
Tetrachloroethene	520	520000
1,3-Dichloropropane	-	-
Dibromochloromethane	-	-
1,2-Dibromomethane	-	-
Chlorobenzene	1000	1000000
1,1,1,2-Tetrachloroethane	220	220000
Ethylbenzene	1000	1000000
p/m-Xylene	1000	1000000
o-Xylene	1000	1000000
Styrene	1000	1000000
Bromoform	720	720000
1,1,2,2-Tetrachloroethane	220	220000
Bromobenzene	-	-
1,2,3-Trichloropropane	-	-
n-Propylbenzene	-	-
2-Chlorotoluene	-	-
1,3,5-Trimethylbenzene	-	-
4-Chlorotoluene	-	-
tert-Butylbenzene	-	-
1,2,4-Trimethylbenzene	-	-
sec-Butylbenzene	-	-
1,3-Dichlorobenzene	1000	1000000
p-Isopropyltoluene	-	-
1,4-Dichlorobenzene	240	240000
n-Butylbenzene	-	-
1,2-Dichlorobenzene	1000	1000000
1,2-Dibromo-3-chloropropane	-	-
1,2,4-Trichlorobenzene	-	-
Hexachlorobutadiene	-	-
Naphthalene	-	-
1,2,3-Trichlorobenzene	-	-

Table 2-4
TPH Cleanup Criteria
Site: Building A-85 CSA, SUBASENLON

TPH	Industrial/Commercial Direct Exposure (mg/Kg)	Adjusted Limits ug/kg
TPH	2500	2500000

Table 2-5
PCB Cleanup Criteria
Site: Building A-85 CSA, SUBASENLON

PCBs	Industrial/Commercial Direct Exposure (mg/Kg)	Adjusted Limits ug/kg	GB PM Criteria mg/L (ppm)	GB PM Criteria Adjusted Limits ug/kg (ppb)
Arochlor 1016				
Arochlor 1211				
Arochlor 1232				
Arochlor 1242				
Arochlor 1248				
Arochlor 1254				
Arochlor 1260				
Total PCBs	10	10000	0.005	5

Table 3-1
Bunker Concrete Crack/Stain Confirmatory Data - Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	BCC-1 04/05/01	BCC-2 04/05/01	BCF-1 04/05/01	BCF-1-A 05/31/01	BCF-2 04/05/01	BCF-3 04/05/01
Arsenic	**10**	**10**	4.8	6.2	4.8	-	6.4	5
Barium	**140000**	**200**				-		
Cadmium	**1000**	**1**	***0.036***	***0.036***	0.089	-	0.48	0.11
Chromium	**100**	**10**	9.6	13	16	-	14	13
Copper	**76000**	**260**	6.8	6.4	12	-	16	15
Lead Extractable		**-**				-		
Lead Total	**1000**	**3**	2.9	3	11	-	22	50
Mercury	**610**	**0.4**	0.022	***0.011***	0.14	-	0.14	1.3
Nickel	**7500**	**20**	8	9.7	12	-	11	10
Selenium	**10000**	**10**	***0.18***	***0.18***	***0.17***	-	***0.17***	***0.13***
Silver	**10000**	**7.2**	***0.079***	0.096	0.21	-	0.26	42
Zinc	**610000**	**1000**	16	19	24	-	31	28

Notes:
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data represented in mg/kg (ppm) concentrations.

Table 3-2
Bunker Concrete Crack/Stain Confirmatory Data - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Limits Ind/Com (mg/Kg)	Adjusted Limits (ug/kg)	BCC-1 04/05/01	BCC-2 04/05/01	BCF-1 04/05/01	BCF-1-A 05/31/01	BCF-2 04/05/01	BCF-3 04/05/01	Trip Blank 04/05/01
Dichlorodifluoromethane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Chloromethane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Vinyl chloride	3	3000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Bromomethane	-	-	***4.7***	***5.3***	***5.2***	-	***4.5***	***5.5***	***5***
Chloroethane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Trichlorofluoromethane	-	-	3.7	7.6	*1.7*	-	***1.8***	***2.2***	***2***
Acetone	1000	1000000	47 B	47 B	46 B	-	51 B	87 B	5.9 B
1,1-Dichloroethene	9.5	95000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Carbon disulfide	-	-	1.9	***2.1***	25	-	3.3	*38*	***2***
Methylene chloride	760	760000	7.5 B	12 B	4.8 JB	-	2.6 JB	4.3 JB	5.8 B
Methyl tert-butyl ether(MTBE)	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
trans-1,2-Dichloroethene	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,1-Dichloroethane	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Vinyl acetate	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
2-Butanone (MEK)	1000	1000000	7.6	***2.1***	11	-	11	***2.2***	***2***
cis-1,2-Dichloroethene	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
2,2-Dichloropropanone	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Chloroform	940	940000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,1,1-Trichloroethane	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,1-Dichloropropene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Carbon tetrachloride	44	44000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Benzene	200	200000	***1.9***	***2.1***	11	-	3	4.1	***2***
1,2-Dichloroethane	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Trichloroethene	520	520000	***1.9***	***2.1***	***2.1***	-	***1.8***	13	***2***
1,2-Dichloropropane	84	84000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Dibromomethane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Bromodichloromethane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
2-Chloroethylvinyl ether	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Methyl isobutyl ketone (MIBK)	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
cis-1,3-Dichloropropene	32	32000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Toluene	1000	1000000	*1.1*	*1.2*	4.2	-	*1.7*	3	***4***
trans-1,3-Dichlororopene	32	32000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,1,2-Trichloroethane	100	100000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
2-Hexanone	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Tetrachloroethene	520	520000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,3-Dichloropropane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Dibromochloromethane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,2-Dibromomethane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Chlorobenzene	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,1,1,2-Tetrachloroethane	220	220000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Ethylbenzene	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
p/m-Xylene	1000	1000000	***1.9***	***2.1***	*1*	-	***1.8***	***2.2***	***2***
o-Xylene	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Styrene	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Bromoform	720	720000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,1,2,2-Tetrachloroethane	220	220000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Bromobenzene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,2,3-Trichloropropane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
n-Propylbenzene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
2-Chlorotoluene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,3,5-Trimethylbenzene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
4-Chlorotoluene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
tert-Butylbenzene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,2,4-Trimethylbenzene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
sec-Butylbenzene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,3-Dichlorobenzene	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
p-Isopropyltoluene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,4-Dichlorobenzene	240	240000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
n-Butylbenzene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,2-Dichlorobenzene	1000	1000000	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,2-Dibromo-3-chloropropane	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
1,2,4-Trichlorobenzene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Hexachlorobutadiene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***
Naphthalene	-	-	12	16	120	-	34	10	***2***
1,2,3-Trichlorobenzene	-	-	***1.9***	***2.1***	***2.1***	-	***1.8***	***2.2***	***2***

Notes:

· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.

· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.

· Bold/Italic numerical data represents non-detect levels at the shown detection limit.

· Regular font numerical data represents actual levels.

All data represented in ug/kg (ppb) concentrations.

Table 3-3
Bunker Concrete Crack/Stain Confirmatory Data-SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	BCC-1 04/05/01	BCC-2 04/05/01	BCF-1 04/05/01	BCF-1-A 05/31/01	BCF-1-B 06/29/01	BCF-2 04/05/01	BCF-3 04/05/01
bis(2 Chloroethyl)ether	5.2	5200	100	100	25000	25000	250	100	100
Phenol	2500	2500000	100	100	25000	25000	250	100	100
2-Chlorophenol	2500	2500000	100	100	25000	25000	250	100	100
1,3-Dichlorobenzene	1000	1000000	100	100	25000	25000	250	100	100
1,4-Dichlorobenzene	240	240000	100	100	25000	25000	250	100	100
1,2-Dichlorobenzene	1000	1000000	100	100	25000	25000	250	100	100
Benzyl alcohol	N/A	N/A	100	100	25000	25000	250	100	100
bis(2-chloroisopropyl)ether	82	82000	100	100	25000	25000	250	100	100
2-Methylphenol	N/A	N/A	100	100	25000	25000	250	100	100
Hexachloroethane	410	410000	100	100	25000	25000	250	100	100
N-Nitroso-di-n-propylamine	N/A	N/A	100	100	25000	25000	250	100	100
4-Methylphenol	N/A	N/A	100	100	25000	25000	250	72	77
Nitrobenzene	N/A	N/A	100	100	25000	25000	250	100	100
Isophorone	N/A	N/A	100	100	25000	25000	29000 E	100	100
2-Nitrophenol	N/A	N/A	100	100	25000	25000	250	100	100
2,4-Dimethylphenol	N/A	N/A	100	100	25000	25000	250	100	100
Benzoic acid	N/A	N/A	100	100	25000	25000	250	100	100
bis(2-	N/A	N/A	100	100	25000	25000	250	100	100
2,4-Dichlorophenol	2500	2500000	100	100	25000	25000	250	100	100
1,2,4-Trichlorobenzene	N/A	N/A	100	100	25000	25000	250	100	100
Napthalene	2500	2500000	25	30	25000	25000	250	260	22
4-Chloroaniline	N/A	N/A	100	100	25000	25000	250	100	100
Hexachlorobutadiene	N/A	N/A	100	100	25000	25000	250	100	100
4-Chloro-3-methylphenol	N/A	N/A	100	100	25000	25000	250	100	100
2-Methylnaphthalene	N/A	N/A	100	23	25000	25000	250	89	100
Hexachlorocyclopentadiene	N/A	N/A	100	100	25000	25000	250	100	100
2,4,6-Trichlorophenol	N/A	N/A	100	100	25000	25000	250	100	100
2,4,5-Trichlorophenol	N/A	N/A	200	200	51000	50000	500	200	200
2-Chloronapthalene	N/A	N/A	100	100	25000	25000	250	100	100
2-Nitroaniline	N/A	N/A	200	200	51000	50000	500	200	200
Acenaphthylene	2500	2500000	100	100	25000	25000	250	100	100
Dimethylphthalate	N/A	N/A	100	100	25000	25000	250	100	100
2,6-Dinotrotoluene	N/A	N/A	100	100	25000	25000	250	100	100
Acenaphthene	N/A	N/A	52	100	25000	25000	250	420	59
3-Nitroaniline	N/A	N/A	200	200	51000	50000	500	200	200
2,4-Dinitrophenol	N/A	N/A	200	200	51000	50000	500	200	200
Dibenzofuran	N/A	N/A	41	100	25000	25000	250	340	88
2,4-Dinitrotoluene	N/A	N/A	100	100	25000	25000	250	100	100
4-Nitrophenol	N/A	N/A	200	200	51000	50000	500	200	200
Fluorene	2500	2500000	62	100	25000	25000	250	440	110
4-Chlorphenyl-phenylether	N/A	N/A	100	100	25000	25000	250	100	100
Diethylphthalate	N/A	N/A	100	100	25000	25000	250	100	100
4-Nitroaniline	N/A	N/A	200	200	51000	50000	500	200	200
4,6-Dinitro-2-methylphenol	N/A	N/A	200	200	51000	50000	500	200	200
n-Nitrosodiphenylamine	N/A	N/A	100	100	25000	25000	250	100	100
4-Bromphenyl-phenylether	N/A	N/A	100	100	25000	25000	250	100	100
Hexachlorobenzene	3.6	3600	100	100	25000	25000	250	100	100
Pentachlorophenol	48	48000	200	200	51000	50000	500	200	200
Phenanthrene	2500	2500000	480	610	4800	25000	100 J	2800	1200
Anthracene	2500	2500000	74	140	25000	25000	250	430	66
Di-n-butyl phthalate	2500	2500000	39	62	25000	25000	250	210	40
Fluoranthene	2500	2500000	450	500	25000	25000	150 J	2200	840
Pyrene	2500	2500000	310	390	25000	25000	120 J	2600	410
Butyl benzyl phthalate	2500	2500000	100	100	25000	25000	250	100	72
3,3'-Dichlorobenzidine	N/A	N/A	100	100	25000	25000	250	100	100
Carbazole	N/A	N/A	70	100	25000	25000	250	500	94
Benz[a]anthracene	7.8	7800	150	180	25000	25000	68 J	920	110
Chrysene	N/A	N/A	170	190	25000	25000	68 J	650	190
bis(2-ethyl hexyl)phthalate	410	410000	540 B	200 B	610000 B	480000 B	250	2300 B	2500 B
Di-n-octyl phthalate	2500	2500000	100	100	25000	25000	250	100	100
Benzo[b]fluoranthene	7.8	7800	150	180	25000	25000	64 J	600	140
Benzo[k]fluoranthene	78	78000	100	100	25000	25000	250	660	75
Benzo[a]pyrene	1	1000	110	140	25000	25000	56 J	600	65
Indeno[1,2,3-cd]pyrene	N/A	N/A	65	76	25000	25000	250	120	33
Dibenz[a,h]anthracene	N/A	N/A	100	100	25000	25000	250	30	100
Benzo[g,h,I]perylene	N/A	N/A	66	76	25000	25000	250	94	24

Notes:
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
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· Regular font numerical data represents actual levels.
All data represented in ug/kg (ppb) concentrations.

Table 3-4
Bunker Concrete Crack/Stain Confirmatory Data - PCBs
Site: Building A-85 CSA, SUBASENLON

PCB's	Ind/Comm mg/kg	Adjusted Limits ug/Kg	**BCC-1 04/05/01**	**BCC-2 04/05/01**	**BCF-1 04/05/01**	**BCF-1-A 05/31/01**	**BCF-2 04/05/01**	**BCF-3 04/05/01**
Aroclor 1016	10	10000	***1***	***1***	***1***	-	***1***	***1***
Aroclor 1221	10	10000	***1***	***1***	***1***	-	***1***	***1***
Aroclor 1232	10	10000	***1***	***1***	***1***	-	***1***	***1***
Aroclor 1242	10	10000	***1***	***1***	***1***	-	***1***	***1***
Aroclor 1248	10	10000	***1***	***1***	***1***	-	***1***	***1***
Aroclor 1254	10	10000	***1***	***1***	***1***	-	***1***	***1***
Aroclor 1260	10	10000	15	7.4	20	-	27	14

Notes:
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
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· Regular font numerical data represents actual levels.
All data represented in ug/kg (ppb) concentrations.

Table 3-5
Bunker Concrete Crack/Stain Confirmatory Data - TPH
Site: Building A-85 CSA, SUBASENLON

TPH	Limits Ind/Com (mg/Kg)	BCC-1 04/05/01	BCC-2 04/05/01	BCF-1 04/05/01	BCF-1-A 05/31/01	BCF-2 04/05/01	BCF-3 04/05/01
	2500	110	270	500	-	380	220

Notes:
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data represented in mg/kg (ppm) concentrations.

Table 3-6
Bunker Concrete Crack/Stain Confirmatory Data - Extractable/SPLP
Site: Building A-85 CSA, SUBASENLON

SPLP	GB PM Criteria (ppm) exact	Adjusted GB PM Criteria (ppb)	BCC-1 04/05/01	BCC-2 04/05/01	BCF-1 04/05/01	BCF-1-A 05/31/01	BCF-1-B 06/29/01	BCF-2 04/05/01	BCF -2-A 06/29/01	BCF-3 04/05/01	BCF-3-A 06/29/01
Chromium, SPLP	0.5	500	-	***20***	***20***	-	-	***20***	***-***	***20***	
Lead, SPLP	0.15	150	-	-	***200***	-	***150***	***200***	***150***	***200***	***150***
Mercury, Extractable	0.02	20							***0.2***		***0.2***
Silver, Extractable	0.36	360							***20***		22

Notes:
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
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· Regular font numerical data represents actual levels.
All data represented in ug/L (ppb) concentrations.

Table 3-7
Wooden Shed Confirmatory Soil Data - Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	SH-WSS 04/05/01	SH-ESS 04/05/01
Arsenic	**10**	**10**	1.3	1.3
Barium	**140000**	**200**		
Cadmium	**1000**	**1**	0.037	0.04
Chromium	**100**	**10**	9.6	10
Copper	**76000**	**260**	29	23
Lead Extractable		**-**		
Lead Total	**1000**	**3**	3	2.8
Mercury	**610**	**0.4**	***0.011***	***0.011***
Nickel	**7500**	**20**	11	8.5
Selenium	**10000**	**10**	***0.18***	***0.14***
Silver	**10000**	**7.2**	***0.062***	***0.066***
Zinc	**610000**	**1000**	24	19

Notes:
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
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· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm) concentrations.

Table 3-8
Wooden Shed Confirmatory Soil Data - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Limits Ind/Com (mg/Kg)	Adjusted Limits (ug/kg)	SH-WSS 04/05/01	SH-ESS 04/05/01
Dichlorodifluoromethane	-	-	***2***	***1.8***
Chloromethane	-	-	***2***	***1.8***
Vinyl chloride	3	3000	***2***	***1.8***
Bromomethane	-	-	***5***	***4.5***
Chloroethane	-	-	***2***	***1.8***
Trichlorofluoromethane	-	-	***2***	***1.8***
Acetone	1000	1000000	14 B	9.4 B
1,1-Dichloroethene	9.5	95000	***2***	***1.8***
Carbon disulfide	-	-	***2***	***1.8***
Methylene chloride	760	760000	2.8 JB	2.1 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2***	***1.8***
trans-1,2-Dichloroethene	1000	1000000	***2***	***1.8***
1,1-Dichloroethane	1000	1000000	***2***	***1.8***
Vinyl acetate	-	-	***2***	***1.8***
2-Butanone (MEK)	1000	1000000	***2***	***1.8***
cis-1,2-Dichloroethene	1000	1000000	***2***	***1.8***
2,2-Dichloropropanone	-	-	***2***	***1.8***
Chloroform	940	940000	***2***	***1.8***
1,1,1-Trichloroethane	1000	1000000	***2***	***1.8***
1,1-Dichloropropene	-	-	***2***	***1.8***
Carbon tetrachloride	44	44000	***2***	***1.8***
Benzene	200	200000	***2***	***1.8***
1,2-Dichloroethane	1000	1000000	***2***	***1.8***
Trichloroethene	520	520000	***2***	***1.8***
1,2-Dichloropropane	84	84000	***2***	***1.8***
Dibromomethane	-	-	***2***	***1.8***
Bromodichloromethane	-	-	***2***	***1.8***
2-Chloroethylvinyl ether	-	-	***2***	***1.8***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2***	***1.8***
cis-1,3-Dichloropropene	32	32000	***2***	***1.8***
Toluene	1000	1000000	***2***	***1.8***
trans-1,3-Dichlororopene	32	32000	***2***	***1.8***
1,1,2-Trichloroethane	100	100000	***2***	***1.8***
2-Hexanone	-	-	***2***	***1.8***
Tetrachloroethene	520	520000	***2***	***1.8***
1,3-Dichloropropane	-	-	***2***	***1.8***
Dibromochloromethane	-	-	***2***	***1.8***
1,2-Dibromomethane	-	-	***2***	***1.8***
Chlorobenzene	1000	1000000	***2***	***1.8***
1,1,1,2-Tetrachloroethane	220	220000	***2***	***1.8***
Ethylbenzene	1000	1000000	***2***	***1.8***
p/m-Xylene	1000	1000000	***4***	***3.6***
o-Xylene	1000	1000000	***2***	***1.8***
Styrene	1000	1000000	***2***	***1.8***
Bromoform	720	720000	***2***	***1.8***
1,1,2,2-Tetrachloroethane	220	220000	***2***	***1.8***
Bromobenzene	-	-	***2***	***1.8***
1,2,3-Trichloropropane	-	-	***2***	***1.8***
n-Propylbenzene	-	-	***2***	***1.8***
2-Chlorotoluene	-	-	***2***	***1.8***
1,3,5-Trimethylbenzene	-	-	***2***	***1.8***
4-Chlorotoluene	-	-	***2***	***1.8***
tert-Butylbenzene	-	-	***2***	***1.8***
1,2,4-Trimethylbenzene	-	-	***2***	***1.8***
sec-Butylbenzene	-	-	***2***	***1.8***
1,3-Dichlorobenzene	1000	1000000	***2***	***1.8***
p-Isopropyltoluene	-	-	***2***	***1.8***
1,4-Dichlorobenzene	240	240000	***2***	***1.8***
n-Butylbenzene	-	-	***2***	***1.8***
1,2-Dichlorobenzene	1000	1000000	***2***	***1.8***
1,2-Dibromo-3-chloropropane	-	-	***2***	***1.8***
1,2,4-Trichlorobenzene	-	-	***2***	***1.8***
Hexachlorobutadiene	-	-	***2***	***1.8***
Naphthalene	-	-	***2***	***1.8***
1,2,3-Trichlorobenzene	-	-	***2***	***1.8***

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All data presented in ug/kg (ppb) concentrations.

Table 3-9
Wooden Shed Confirmatory Soil Data - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	SH-WSS 04/05/01	SH-ESS 04/05/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	***100***	***100***
Phenol	**2500**	**2500000**	***100***	***100***
2-Chlorophenol	**2500**	**2500000**	***100***	***100***
1,3-Dichlorobenzene	**1000**	**1000000**	***100***	***100***
1,4-Dichlorobenzene	**240**	**240000**	***100***	***100***
1,2-Dichlorobenzene	**1000**	**1000000**	***100***	***100***
Benzyl alcohol	**N/A**	**N/A**	***100***	***100***
bis(2-chloroisopropyl)ether	**82**	**82000**	***100***	***100***
2-Methylphenol	**N/A**	**N/A**	***100***	***100***
Hexachloroethane	**410**	**410000**	***100***	***100***
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	***100***	***100***
4-Methylphenol	**N/A**	**N/A**	***100***	***100***
Nitrobenzene	**N/A**	**N/A**	***100***	***100***
Isophorone	**N/A**	**N/A**	***100***	***100***
2-Nitrophenol	**N/A**	**N/A**	***100***	***100***
2,4-Dimethylphenol	**N/A**	**N/A**	***100***	***100***
Benzoic acid	**N/A**	**N/A**	***100***	***100***
bis(2-chloroethoxy)methane	**N/A**	**N/A**	***100***	***100***
2,4-Dichlorophenol	**2500**	**2500000**	***100***	***100***
1,2,4-Trichlorobenzene	**N/A**	**N/A**	***100***	***100***
Napthalene	**2500**	**2500000**	***100***	***100***
4-Chloroaniline	**N/A**	**N/A**	***100***	***100***
Hexachlorobutadiene	**N/A**	**N/A**	***100***	***100***
4-Chloro-3-methylphenol	**N/A**	**N/A**	***100***	***100***
2-Methylnaphthalene	**N/A**	**N/A**	***100***	***100***
Hexachlorocyclopentadiene	**N/A**	**N/A**	***100***	***100***
2,4,6-Trichlorophenol	**N/A**	**N/A**	***100***	***100***
2,4,5-Trichlorophenol	**N/A**	**N/A**	***210***	***210***
2-Chloronapthalene	**N/A**	**N/A**	***100***	***100***
2-Nitroaniline	**N/A**	**N/A**	***210***	***210***
Acenaphthylene	**2500**	**2500000**	***100***	***100***
Dimethylphthalate	**N/A**	**N/A**	***100***	***100***
2,6-Dinotrotoluene	**N/A**	**N/A**	***100***	***100***
Acenaphthene	**N/A**	**N/A**	***100***	***100***
3-Nitroaniline	**N/A**	**N/A**	***210***	***210***
2,4-Dinitrophenol	**N/A**	**N/A**	***210***	***210***
Dibenzofuran	**N/A**	**N/A**	***100***	***100***
2,4-Dinitrotoluene	**N/A**	**N/A**	***100***	***100***
4-Nitrophenol	**N/A**	**N/A**	***210***	***210***
Fluorene	**2500**	**2500000**	***100***	***100***
4-Chlorphenyl-phenylether	**N/A**	**N/A**	***100***	***100***
Diethylphthalate	**N/A**	**N/A**	***100***	***100***
4-Nitroaniline	**N/A**	**N/A**	***210***	***210***
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	***210***	***210***
n-Nitrosodiphenylamine	**N/A**	**N/A**	***100***	***100***
4-Bromphenyl-phenylether	**N/A**	**N/A**	***100***	***100***
Hexachlorobenzene	**3.6**	**3600**	***100***	***100***
Pentachlorophenol	**48**	**48000**	***210***	***210***
Phenanthrene	**2500**	**2500000**	*60*	*30*
Anthracene	**2500**	**2500000**	***100***	***100***
Di-n-butyl phthalate	**2500**	**2500000**	***100***	***100***
Fluoranthene	**2500**	**2500000**	*94*	*60*
Pyrene	**2500**	**2500000**	*95*	*59*
Butyl benzyl phthalate	**2500**	**2500000**	***100***	***100***
3,3'-Dichlorobenzidine	**N/A**	**N/A**	***100***	***100***
Carbazole	**N/A**	**N/A**	***100***	***100***
Benz[a]anthracene	**7.8**	**7800**	*46*	*29*
Chrysene	**N/A**	**N/A**	*47*	*33*
bis(2-ethyl hexyl)phthalate	**410**	**410000**	***100***	***100***
Di-n-octyl phthalate	**2500**	**2500000**	***100***	***100***
Benzo[b]fluoranthene	**7.8**	**7800**	*47*	*30*
Benzo[k]fluoranthene	**78**	**78000**	*35*	*26*
Benzo[a]pyrene	**1**	**1000**	*47*	*30*
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	*30*	*19*
Dibenz[a,h]anthracene	**N/A**	**N/A**	***100***	***100***
Benzo[g,h,I]perylene	**N/A**	**N/A**	*31*	*22*

Notes:

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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.

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· Regular font numerical data represents actual levels.

All data presented in ug/kg (ppb) concentrations.

Table 3-10
Wooden Shed Confirmatory Soil Data - PCBs
Site: Building A-85 CSA, SUBASENLON

PCB's	Ind/Comm mg/kg	Adjusted Limits ug/Kg	**SH-WSS 04/05/01**	**SH-ESS 04/05/01**
Aroclor 1016	10	10000	***1***	***1***
Aroclor 1221	10	10000	***1***	***1***
Aroclor 1232	10	10000	***1***	***1***
Aroclor 1242	10	10000	***1***	***1***
Aroclor 1248	10	10000	***1***	***1***
Aroclor 1254	10	10000	***1***	***1***
Aroclor 1260	10	10000	***1***	***1***

Notes:
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
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· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-11
Wooden Shed Confirmatory Soil Data - TPH
Site: Building A-85 CSA, SUBASENLON

TPH	Limits Ind/Com (mg/Kg)	SH-WSS 04/05/01	SH-ESS 04/05/01
	2500	3.7	3

Notes:
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm) concentrations.

Table 3-12
Area 1 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20 (mg/L) (ppm)	A1-1SS 03/14/01	*A1-1SS-A 03/21/01	A1-1 NESW 03/14/01	A1-1NESW-A 06/29/01	A1-1 SESW 03/14/01	A1-1 NSW 03/14/01	A1-1 NSW A 06/29/01
Arsenic	**10**	**10**	20	0.25	5.3	-	59	80	***10***
Barium	**140000**	**200**	23	13	18	-	20	37	-
Cadmium	**1000**	**1**	0.075	***0.024***	0.14	-	0.12	0.058	-
Chromium	**100**	**10**	6.4	2	6.8	-	7.4	9.9	-
Copper	**76000**	**260**	15	-	30	-	18	10	-
Lead Total	**1000**	**3**	45	1.2	56	-	54	21	***16***
Mercury	**610**	**0.4**	0.026	***0.0096***	0.036	-	0.037	0.019	-
Nickel	**7500**	**20**	5.2	-	5.6	-	7.9	6.6	-
Selenium	**10000**	**10**	***0.2***	***0.12***	***0.17***	-	***0.17***	***0.18***	-
Silver	**10000**	**7.2**	0.15	0.034	0.5	-	0.078	0.049	-
Zinc	**610000**	**1000**	36	-	56	-	48	29	-
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**							
Arsenic	-	**500**	-	-	-	***200***	-	***200***	-
Lead	-	**150**	-	-	250	-	-	***150***	-
Chromium	-	**500**	-	-	-	-	-	-	-
Mercury	-	**20**	-	-	-	-	-	-	-
Silver	-	**360**	-	-	-	-	-	-	-

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm) concentrations. SPLP/Extractables in ug/L (ppb).

Table 3-12
Area 1 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20 (mg/L) (ppm)	A1-2 SS 03/14/01	*A1-2SS-A 03/21/01	A1-2 ESW 03/14/01	A1-3 SS 03/14/01	*A1-3SS-A 03/21/01	A1-3 ESW 03/14/01	A1-4 SS 03/14/01
Arsenic	**10**	**10**	97	0.28	2.4	5.2	0.36	5.8	2.3
Barium	**140000**	**200**	40	11	20	38	13	44	69
Cadmium	**1000**	**1**	0.34	***0.027***	0.075	0.23	***0.025***	0.053	0.15
Chromium	**100**	**10**	16	2.3	6.9	8.3	2.4	14	11
Copper	**76000**	**260**	21	-	6.8	26	-	12	36
Lead Total	**1000**	**3**	44	1.1	15	110	1.5	16	62
Mercury	**610**	**0.4**	0.062	***0.011***	0.013	0.03	***0.01***	0.15	0.21
Nickel	**7500**	**20**	14	-	5.8	7	-	11	8.1
Selenium	**10000**	**10**	0.27	***0.13***	***0.18***	***0.18***	***0.13***	***0.16***	***0.2***
Silver	**10000**	**7.2**	0.12	***0.026***	0.036	0.041	***0.025***	0.07	0.074
Zinc	**610000**	**1000**	68	-	17	29	-	35	100
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**							
Arsenic	-	**500**	-	-	-	-	-	-	-
Lead	-	**150**	-	-	-	-	-	-	-
Chromium	-	**500**	-	-	-	-	-	-	-
Mercury	-	**20**	-	-	-	-	-	-	-
Silver	-	**360**	-	-	-	-	-	-	-

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm) concentrations. SPLP/Extractables in ug/L (ppb).

Table 3-12
Area 1 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20 (mg/L) (ppm)	*A1-4SS-A 03/21/01	A1-4 ESW 03/14/01	A1-5 SS 03/14/01	*A1-5SS-A 03/21/01	A1-5 ESW 03/14/01	A1-5 SSW 03/14/01	A1-6 SS 03/14/01
Arsenic	**10**	**10**	0.35	17	2.8	0.32	7.4	1.9	1.2
Barium	**140000**	**200**	11	18	27	13	21	18	24
Cadmium	**1000**	**1**	0.068	0.12	0.054	***0.027***	0.29	0.037	***0.037***
Chromium	**100**	**10**	2.1	5.8	6.4	2.4	7.6	8	8
Copper	**76000**	**260**	-	11	7.2	-	7.9	8.5	5.8
Lead Total	**1000**	**3**	2.7	110	26	1.6	8.9	40	3.4
Mercury	**610**	**0.4**	0.015	0.062	0.047	***0.011***	0.013	0.063	0.013
Nickel	**7500**	**20**	-	6.1	4.7	-	5.3	4.9	5.6
Selenium	**10000**	**10**	***0.14***	0.18	***0.17***	***0.14***	***0.18***	***0.16***	***0.19***
Silver	**10000**	**7.2**	***0.028***	0.14	***0.032***	***0.028***	0.037	0.22	***0.033***
Zinc	**610000**	**1000**	-	34	25	-	30	16	16
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**							
Arsenic	-	**500**	-	-	-	-	-	-	-
Lead	-	**150**	-	-	-	-	-	300	-
Chromium	-	**500**	-	-	-	-	-	-	-
Mercury	-	**20**	-	-	-	-	-	-	-
Silver	-	**360**	-	-	-	-	-	-	-

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All data presented in mg/kg (ppm) concentrations. SPLP/Extractables in ug/L (ppb).

Table 3-12
Area 1 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20 (mg/L) (ppm)	*A1-6SS-A 03/21/01	A1-6 SSW 03/14/01	A1-7 SS 03/14/01	A1-7SS-A 03/21/01	A1-7SS-B 03/26/01	A1-8 SS 03/14/01	A1-8SS-A 03/21/01
Arsenic	**10**	**10**	0.43	8.5	1.5	3.5	0.49	1.4	0.33
Barium	**140000**	**200**	11	18	31	11	14	57	12
Cadmium	**1000**	**1**	***0.028***	0.21	***0.036***	0.038	***0.031***	0.084	***0.026***
Chromium	**100**	**10**	2.3	9.2	9.3	2.7	2.5	10	2.2
Copper	**76000**	**260**	-	8.2	8.3	-	-	24	-
Lead Total	**1000**	**3**	2.1	26	8.7	36	1.6	20	1.7
Mercury	**610**	**0.4**	***0.012***	0.067	0.012	0.11	0.063	0.028	***0.011***
Nickel	**7500**	**20**	-	8.1	6.7	-	-	8	-
Selenium	**10000**	**10**	***0.14***	***0.2***	0.19	***0.13***	***0.16***	***0.17***	***1.3***
Silver	**10000**	**7.2**	***0.026***	0.16	0.034	***0.027***	***0.033***	0.042	***0.027***
Zinc	**610000**	**1000**	-	110	19	-	-	49	-
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**							
Arsenic	-	**500**	-	-	-	-	-	-	-
Lead	-	**150**	-	***150***	-	-	-	-	-
Chromium	-	**500**	-	-	-	-	-	-	-
Mercury	-	**20**	-	-	-	-	-	-	-
Silver	-	**360**	-	-	-	-	-	-	-

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Table 3-12
Area 1 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20 (mg/L) (ppm)	A1-9 SS 03/14/01	*A1-9SS-A 03/21/01	A1-9 NSW 03/14/01	A1-10SS 03/15/01	A1-10NSW 03/15/01	* A1-10NSW-A 03/26/01	A1-10ESW 03/15/01
Arsenic	**10**	**10**	2.6	0.3	2.6	2.2	0.55	0.44	2.5
Barium	**140000**	**200**	47	11	36	40	20	13	180
Cadmium	**1000**	**1**	0.075	***0.024***	0.059	0.076	***0.062***	0.062	0.087
Chromium	**100**	**10**	13	2.6	12	12	3.5	2.2	24
Copper	**76000**	**260**	23	-	13	14	4.1	-	38
Lead Total	**1000**	**3**	19	1.3	14	22	12	2.2	23
Mercury	**610**	**0.4**	0.026	0.016	0.02	0.18	0.011	0.06	0.023
Nickel	**7500**	**20**	9.8	-	7.7	9.6	3.1	-	24
Selenium	**10000**	**10**	***0.17***	***0.12***	***0.18***	***0.18***	***0.16***	***0.16***	0.35
Silver	**10000**	**7.2**	0.12	***0.028***	0.098	0.08	***0.035***	***0.033***	0.076
Zinc	**610000**	**1000**	37	-	29	34	14	-	52
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**							
Arsenic	-	**500**	-	-	-	-	-	-	-
Lead	-	**150**	-	-	***150***	-	-	-	-
Chromium	-	**500**	-	-	***20***	-	-	-	-
Mercury	-	**20**	-	-	-	-	-	-	-
Silver	-	**360**	-	-	-	-	-	-	-

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All data presented in mg/kg (ppm) concentrations. SPLP/Extractables in ug/L (ppb).

Table 3-12
Area 1 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20 (mg/L) (ppm)	A1-11SS 03/15/01	A1-11ESW 03/15/01	A1-11ESW-A 03/26/01	A1-12SS 03/15/01	A1-12ESW 03/15/01	A1-12SSW 03/15/01	A1-12SSW-A 03/26/01
Arsenic	**10**	**10**	1.9	1.1	0.4	2.1	0.76	1.8	0.28
Barium	**140000**	**200**	34	32	14	50	22	28	11
Cadmium	**1000**	**1**	***0.071***	0.11	0.029	0.078	***0.072***	0.65	***0.031***
Chromium	**100**	**10**	9.4	7.4	3.9	12	6.2	5.4	2
Copper	**76000**	**260**	8.3	5.9	-	6.3	4.7	7.9	-
Lead Total	**1000**	**3**	6.7	13	1.6	6.3	1.9	8.3	1.5
Mercury	**610**	**0.4**	0.016	0.014	0.013	0.028	***0.011***	0.042	0.012
Nickel	**7500**	**20**	6.1	4.7	-	8.1	4	48	-
Selenium	**10000**	**10**	***0.18***	***0.16***	***0.14***	0.59	***0.18***	0.31	***0.16***
Silver	**10000**	**7.2**	0.055	***0.032***	***0.032***	0.08	***0.032***	0.1	***0.034***
Zinc	**610000**	**1000**	22	18	-	35	12	49	-
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**							
Arsenic	-	**500**	-	-	-	-	-	-	-
Lead	-	**150**	-	-	-	-	-	-	-
Chromium	-	**500**	-	-	-	-	-	-	-
Mercury	-	**20**	-	-	-	-	-	-	-
Silver	-	**360**	-	-	-	-	-	-	-

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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All data presented in mg/kg (ppm) concentrations. SPLP/Extractables in ug/L (ppb).

Table 3-12
Area 1 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20 (mg/L) (ppm)	A1-13SS 03/15/01	A1-13SSW 03/15/01	A1-13SSW-A 03/26/01	A1-14SS 03/15/01	A1-15SS 03/15/01	A1-15NSW 03/15/01	*A1-15NSW-A 03/26/01
Arsenic	**10**	**10**	1	1.7	0.56	2.9	0.43	3.3	0.43
Barium	**140000**	**200**	19	19	13	26	11	28	12
Cadmium	**1000**	**1**	***0.068***	0.071	***0.032***	***0.064***	***0.066***	***0.071***	***0.031***
Chromium	**100**	**10**	5.2	6.6	2.7	14	2	10	2.3
Copper	**76000**	**260**	5.5	5	-	12	3.7	9.1	-
Lead Total	**1000**	**3**	3.2	5	1.8	5.8	1.7	9.8	1.2
Mercury	**610**	**0.4**	***0.011***	0.013	0.058	0.026	***0.011***	0.028	0.018
Nickel	**7500**	**20**	3.6	14	-	8.4	1.5	7	-
Selenium	**10000**	**10**	***0.17***	***0.17***	***0.16***	0.19	***0.16***	***0.18***	***0.16***
Silver	**10000**	**7.2**	0.21	0.053	***0.029***	***0.038***	***0.035***	0.042	***0.034***
Zinc	**610000**	**1000**	12	15	-	30	7.5	21	-
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**							
Arsenic	-	**500**	-	-	-	-	-	-	-
Lead	-	**150**	-	-	-	-	-	-	-
Chromium	-	**500**	-	-	-	-	-	-	-
Mercury	-	**20**	-	-	-	-	-	-	-
Silver	-	**360**	-	-	-	-	-	-	-

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All data presented in mg/kg (ppm) concentrations. SPLP/Extractables in ug/L (ppb).

Table 3-12
Area 1 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20 (mg/L) (ppm)	A1-16WSW 03/15/01	A1-16WSW-A 03/26/01	A1-17WSW 03/15/01	A1-17WSW-A 03/26/01	A1-18WSW 03/15/01	A1-18WSW-A 03/26/01	*A1-19WSW 03/15/01
Arsenic	**10**	**10**	14	0.22	0.97	0.61	3.8	0.4	3.8
Barium	**140000**	**200**	26	16	8.9	11	44	11	31
Cadmium	**1000**	**1**	0.075	***0.032***	***0.062***	0.055	0.092	***0.029***	***0.07***
Chromium	**100**	**10**	12	2.2	1.9	2.1	20	2	22
Copper	**76000**	**260**	21	-	4.4	-	23	-	7.2
Lead Total	**1000**	**3**	18	2.6	14	2	9.8	2	6.9
Mercury	**610**	**0.4**	0.22	0.021	0.16	0.056	0.068	0.053	0.027
Nickel	**7500**	**20**	8.4	-	1.7	-	15	-	9.3
Selenium	**10000**	**10**	0.23	***0.16***	***0.16***	***0.16***	***0.018***	***0.15***	0.58
Silver	**10000**	**7.2**	0.15	***0.033***	***0.033***	***0.029***	0.078	***0.03***	0.055
Zinc	**610000**	**1000**	25	-	14	-	62	-	26
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**							
Arsenic	-	**500**	-	-	-	-	-	-	-
Lead	-	**150**	-	-	-	-	-	-	-
Chromium	-	**500**	-	-	-	-	-	-	-
Mercury	-	**20**	-	-	-	-	-	-	-
Silver	-	**360**	-	-	-	-	-	-	-

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Table 3-12
Area 1 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20 (mg/L) (ppm)	A1-19WSW-A 03/26/01
Arsenic	**10**	**10**	0.26
Barium	**140000**	**200**	12
Cadmium	**1000**	**1**	***0.03***
Chromium	**100**	**10**	3.2
Copper	**76000**	**260**	-
Lead Total	**1000**	**3**	1.2
Mercury	**610**	**0.4**	0.014
Nickel	**7500**	**20**	-
Selenium	**10000**	**10**	***0.15***
Silver	**10000**	**7.2**	***0.034***
Zinc	**610000**	**1000**	-
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**	
Arsenic	-	**500**	-
Lead	-	**150**	-
Chromium	-	**500**	-
Mercury	-	**20**	-
Silver	-	**360**	-

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Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-1SS 03/14/01	*A1-1SS-A 03/21/01	A1-1 NESW 03/14/01	A1-1 SESW 03/14/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	***290***	-	***270***	***260***
Phenol	**2500**	**2500000**	***290***	-	***270***	***260***
2-Chlorophenol	**2500**	**2500000**	***290***	-	***270***	***260***
1,3-Dichlorobenzene	**1000**	**1000000**	***290***	-	***270***	***260***
1,4-Dichlorobenzene	**240**	**240000**	***290***	-	***270***	***260***
1,2-Dichlorobenzene	**1000**	**1000000**	***290***	-	***270***	***260***
Benzyl alcohol	**N/A**	**N/A**	***2900***	-	***2700***	***2600***
bis(2-chloroisopropyl)ether	**82**	**82000**	***290***	-	***270***	***260***
2-Methylphenol	**N/A**	**N/A**	***290***	-	***270***	***260***
Hexachloroethane	**410**	**410000**	***290***	-	***270***	***260***
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	***290***	-	***270***	***260***
4-Methylphenol	**N/A**	**N/A**	***290***	-	***270***	***260***
Nitrobenzene	**N/A**	**N/A**	***290***	-	***270***	***260***
Isophorone	**N/A**	**N/A**	***290***	-	***270***	***260***
2-Nitrophenol	**N/A**	**N/A**	***290***	-	***270***	***260***
2,4-Dimethylphenol	**N/A**	**N/A**	***290***	-	***270***	***260***
Benzoic acid	**N/A**	**N/A**	***590***	-	*62*	***530***
bis(2-chloroethoxy)methane	**N/A**	**N/A**	***290***	-	***270***	***260***
2,4-Dichlorophenol	**2500**	**2500000**	***290***	-	***270***	***260***
1,2,4-Trichlorobenzene	**N/A**	**N/A**	***290***	-	***270***	***260***
Napthalene	**2500**	**2500000**	***290***	-	***270***	***260***
4-Chloroaniline	**N/A**	**N/A**	***290***	-	***270***	***260***
Hexachlorobutadiene	**N/A**	**N/A**	***290***	-	***270***	***260***
4-Chloro-3-methylphenol	**N/A**	**N/A**	***290***	-	***270***	***260***
2-Methylnaphthalene	**N/A**	**N/A**	***290***	-	***270***	***260***
Hexachlorocyclopentadiene	**N/A**	**N/A**	***290***	-	***270***	***260***
2,4,6-Trichlorophenol	**N/A**	**N/A**	***290***	-	***270***	***260***
2,4,5-Trichlorophenol	**N/A**	**N/A**	***590***	-	***540***	***530***
2-Chloronapthalene	**N/A**	**N/A**	***290***	-	***270***	***260***
2-Nitroaniline	**N/A**	**N/A**	***590***	-	***540***	***530***
Acenaphthylene	**2500**	**2500000**	*250*	-	***270***	***260***
Dimethylphthalate	**N/A**	**N/A**	***290***	-	***270***	***260***
2,6-Dinotrotoluene	**N/A**	**N/A**	***290***	-	***270***	***260***
Acenaphthene	**N/A**	**N/A**	***290***	-	***270***	***260***
3-Nitroaniline	**N/A**	**N/A**	***590***	-	***540***	***530***
2,4-Dinitrophenol	**N/A**	**N/A**	***590***	-	***540***	***530***
Dibenzofuran	**N/A**	**N/A**	***290***	-	***270***	***260***
2,4-Dinitrotoluene	**N/A**	**N/A**	***290***	-	***270***	***260***
4-Nitrophenol	**N/A**	**N/A**	***590***	-	***540***	***530***
Fluorene	**2500**	**2500000**	***290***	-	***270***	***260***
4-Chlorphenyl-phenylether	**N/A**	**N/A**	***290***	-	***270***	***260***
Diethylphthalate	**N/A**	**N/A**	***290***	-	***270***	***260***
4-Nitroaniline	**N/A**	**N/A**	***590***	-	***540***	***530***
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	***590***	-	***540***	***530***
n-Nitrosodiphenylamine	**N/A**	**N/A**	***290***	-	***270***	***260***
4-Bromphenyl-phenylether	**N/A**	**N/A**	***290***	-	***270***	***260***
Hexachlorobenzene	**3.6**	**3600**	***290***	-	***270***	***260***
Pentachlorophenol	**48**	**48000**	***590***	-	***540***	***530***
Phenanthrene	**2500**	**2500000**	300	-	250	*100*
Anthracene	**2500**	**2500000**	*160*	-	*84*	***260***
Di-n-butyl phthalate	**2500**	**2500000**	***290***	-	***270***	***260***
Fluoranthene	**2500**	**2500000**	1100	-	400	***180***
Pyrene	**2500**	**2500000**	1300	-	370	*160*
Butyl benzyl phthalate	**2500**	**2500000**	***290***	-	***270***	***260***
3,3'-Dichlorobenzidine	**N/A**	**N/A**	***290***	-	***270***	***260***
Carbazole	**N/A**	**N/A**	*58*	-	***270***	***260***
Benz[a]anthracene	**7.8**	**7800**	730	-	170	*61*
Chrysene	**N/A**	**N/A**	920	-	190	*100*
bis(2-ethyl hexyl)phthalate	**410**	**410000**	*92*	-	520	*91*
Di-n-octyl phthalate	**2500**	**2500000**	***290***	-	***270***	***260***
Benzo[b]fluoranthene	**7.8**	**7800**	1000	-	250	*87*
Benzo[k]fluoranthene	**78**	**78000**	850	-	150	*65*
Benzo[a]pyrene	**1**	**1000**	810	-	160	*70*
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	*280*	-	*51*	***260***
Dibenz[a,h]anthracene	**N/A**	**N/A**	*87*	-	***270***	***260***
Benzo[g,h,I]perylene	**N/A**	**N/A**	*230*	-	***270***	***260***

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All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-1 NSW 03/14/01	A1-2 SS 03/14/01	*A1-2SS-A 03/21/01	A1-2 ESW 03/14/01
bis(2 Chloroethyl)ether	5.2	5200	280	310	250	270
Phenol	2500	2500000	280	310	250	270
2-Chlorophenol	2500	2500000	280	310	250	270
1,3-Dichlorobenzene	1000	1000000	280	310	250	270
1,4-Dichlorobenzene	240	240000	280	310	250	270
1,2-Dichlorobenzene	1000	1000000	280	310	250	270
Benzyl alcohol	N/A	N/A	2900	3100	250	2700
bis(2-chloroisopropyl)ether	82	82000	280	310	250	270
2-Methylphenol	N/A	N/A	280	310	250	270
Hexachloroethane	410	410000	280	310	250	270
N-Nitroso-di-n-propylamine	N/A	N/A	280	310	250	270
4-Methylphenol	N/A	N/A	280	310	250	270
Nitrobenzene	N/A	N/A	280	310	250	270
Isophorone	N/A	N/A	280	310	250	270
2-Nitrophenol	N/A	N/A	280	310	250	270
2,4-Dimethylphenol	N/A	N/A	280	310	250	270
Benzoic acid	N/A	N/A	570	610	250	540
bis(2-chloroethoxy)methane	N/A	N/A	280	310	250	270
2,4-Dichlorophenol	2500	2500000	280	310	250	270
1,2,4-Trichlorobenzene	N/A	N/A	280	310	250	270
Napthalene	2500	2500000	280	120	250	270
4-Chloroaniline	N/A	N/A	280	310	250	270
Hexachlorobutadiene	N/A	N/A	280	310	250	270
4-Chloro-3-methylphenol	N/A	N/A	280	310	250	270
2-Methylnaphthalene	N/A	N/A	280	58	250	270
Hexachlorocyclopentadiene	N/A	N/A	280	310	250	270
2,4,6-Trichlorophenol	N/A	N/A	280	310	250	270
2,4,5-Trichlorophenol	N/A	N/A	570	610	510	540
2-Chloronapthalene	N/A	N/A	280	310	250	270
2-Nitroaniline	N/A	N/A	570	610	510	540
Acenaphthylene	2500	2500000	53	690	250	96
Dimethylphthalate	N/A	N/A	280	310	250	270
2,6-Dinotrotoluene	N/A	N/A	280	310	250	270
Acenaphthene	N/A	N/A	280	310	250	270
3-Nitroaniline	N/A	N/A	570	610	510	540
2,4-Dinitrophenol	N/A	N/A	570	610	510	540
Dibenzofuran	N/A	N/A	280	310	250	270
2,4-Dinitrotoluene	N/A	N/A	280	310	250	270
4-Nitrophenol	N/A	N/A	570	610	510	540
Fluorene	2500	2500000	280	100	250	270
4-Chlorphenyl-phenylether	N/A	N/A	280	310	250	270
Diethylphthalate	N/A	N/A	280	310	250	270
4-Nitroaniline	N/A	N/A	570	610	510	540
4,6-Dinitro-2-methylphenol	N/A	N/A	570	610	510	540
n-Nitrosodiphenylamine	N/A	N/A	280	310	250	270
4-Bromphenyl-phenylether	N/A	N/A	280	310	250	270
Hexachlorobenzene	3.6	3600	280	310	250	270
Pentachlorophenol	48	48000	570	610	510	540
Phenanthrene	2500	2500000	330	2000	250	220
Anthracene	2500	2500000	96	440	250	49
Di-n-butyl phthalate	2500	2500000	280	310	250	270
Fluoranthene	2500	2500000	520	4800	59	490
Pyrene	2500	2500000	470	4900	46	520
Butyl benzyl phthalate	2500	2500000	280	310	250	270
3,3'-Dichlorobenzidine	N/A	N/A	280	310	250	270
Carbazole	N/A	N/A	54	350	250	270
Benz[a]anthracene	7.8	7800	230	1600	250	220
Chrysene	N/A	N/A	280	2900	250	340
bis(2-ethyl hexyl)phthalate	410	410000	280	310	250	270
Di-n-octyl phthalate	2500	2500000	280	310	250	270
Benzo[b]fluoranthene	7.8	7800	320	3000	250	260
Benzo[k]fluoranthene	78	78000	200	1500	250	230
Benzo[a]pyrene	1	1000	250	1900	250	240
Indeno[1,2,3-cd]pyrene	N/A	N/A	120	870	250	160
Dibenz[a,h]anthracene	N/A	N/A	280	230	250	270
Benzo[g,h,I]perylene	N/A	N/A	110	740	250	160

Notes: * Represents a sample ID labelling error on the original COC.
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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-3 SS 03/14/01	*A1-3SS-A 03/21/01	A1-3 ESW 03/14/01	A1-4 SS 03/14/01
bis(2 Chloroethyl)ether	5.2	5200	260	-	270	290
Phenol	2500	2500000	260	-	270	290
2-Chlorophenol	2500	2500000	260	-	270	290
1,3-Dichlorobenzene	1000	1000000	260	-	270	290
1,4-Dichlorobenzene	240	240000	260	-	270	290
1,2-Dichlorobenzene	1000	1000000	260	-	270	290
Benzyl alcohol	N/A	N/A	2600	-	2700	2900
bis(2-chloroisopropyl)ether	82	82000	260	-	270	290
2-Methylphenol	N/A	N/A	260	-	270	290
Hexachloroethane	410	410000	260	-	270	290
N-Nitroso-di-n-propylamine	N/A	N/A	260	-	270	290
4-Methylphenol	N/A	N/A	260	-	270	290
Nitrobenzene	N/A	N/A	260	-	270	290
Isophorone	N/A	N/A	260	-	270	290
2-Nitrophenol	N/A	N/A	260	-	270	290
2,4-Dimethylphenol	N/A	N/A	260	-	270	290
Benzoic acid	N/A	N/A	520	-	550	570
bis(2-chloroethoxy)methane	N/A	N/A	260	-	270	290
2,4-Dichlorophenol	2500	2500000	260	-	270	290
1,2,4-Trichlorobenzene	N/A	N/A	260	-	270	290
Napthalene	2500	2500000	260	-	270	250
4-Chloroaniline	N/A	N/A	260	-	270	290
Hexachlorobutadiene	N/A	N/A	260	-	270	290
4-Chloro-3-methylphenol	N/A	N/A	260	-	270	290
2-Methylnaphthalene	N/A	N/A	260	-	270	140
Hexachlorocyclopentadiene	N/A	N/A	260	-	270	290
2,4,6-Trichlorophenol	N/A	N/A	260	-	270	290
2,4,5-Trichlorophenol	N/A	N/A	520	-	550	570
2-Chloronapthalene	N/A	N/A	260	-	270	290
2-Nitroaniline	N/A	N/A	520	-	550	570
Acenaphthylene	2500	2500000	74	-	270	1200
Dimethylphthalate	N/A	N/A	260	-	270	290
2,6-Dinotrotoluene	N/A	N/A	260	-	270	290
Acenaphthene	N/A	N/A	260	-	270	280
3-Nitroaniline	N/A	N/A	520	-	550	570
2,4-Dinitrophenol	N/A	N/A	520	-	550	570
Dibenzofuran	N/A	N/A	260	-	270	290
2,4-Dinitrotoluene	N/A	N/A	260	-	270	290
4-Nitrophenol	N/A	N/A	520	-	550	570
Fluorene	2500	2500000	260	-	270	220
4-Chlorphenyl-phenylether	N/A	N/A	260	-	270	290
Diethylphthalate	N/A	N/A	260	-	270	290
4-Nitroaniline	N/A	N/A	520	-	550	570
4,6-Dinitro-2-methylphenol	N/A	N/A	520	-	550	570
n-Nitrosodiphenylamine	N/A	N/A	260	-	270	290
4-Bromphenyl-phenylether	N/A	N/A	260	-	270	290
Hexachlorobenzene	3.6	3600	260	-	270	290
Pentachlorophenol	48	48000	520	-	550	570
Phenanthrene	2500	2500000	160	-	270	1900
Anthracene	2500	2500000	260	-	270	910
Di-n-butyl phthalate	2500	2500000	260	-	270	290
Fluoranthene	2500	2500000	460	-	150	3800
Pyrene	2500	2500000	460	-	160	5200
Butyl benzyl phthalate	2500	2500000	260	-	270	290
3,3'-Dichlorobenzidine	N/A	N/A	260	-	270	290
Carbazole	N/A	N/A	260	-	270	320
Benz[a]anthracene	7.8	7800	180	-	100	2900
Chrysene	N/A	N/A	280	-	130	3100
bis(2-ethyl hexyl)phthalate	410	410000	260	-	270	290
Di-n-octyl phthalate	2500	2500000	260	-	270	290
Benzo[b]fluoranthene	7.8	7800	250	-	130	4200
Benzo[k]fluoranthene	78	78000	170	-	76	2900
Benzo[a]pyrene	1	1000	200	-	120	2900
Indeno[1,2,3-cd]pyrene	N/A	N/A	130	-	68	580
Dibenz[a,h]anthracene	N/A	N/A	260	-	270	200
Benzo[g,h,l]perylene	N/A	N/A	140	-	73	510

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	*A1-4SS-A 03/21/01	A1-4 ESW 03/14/01	A1-5 SS 03/14/01	*A1-5SS-A 03/21/01
bis(2 Chloroethyl)ether	5.2	5200	250	270	270	250
Phenol	2500	2500000	250	270	270	250
2-Chlorophenol	2500	2500000	250	270	270	250
1,3-Dichlorobenzene	1000	1000000	250	270	270	250
1,4-Dichlorobenzene	240	240000	250	270	270	250
1,2-Dichlorobenzene	1000	1000000	250	270	270	250
Benzyl alcohol	N/A	N/A	250	2700	2700	250
bis(2-chloroisopropyl)ether	82	82000	250	270	270	250
2-Methylphenol	N/A	N/A	250	270	270	250
Hexachloroethane	410	410000	250	270	270	250
N-Nitroso-di-n-propylamine	N/A	N/A	250	270	270	250
4-Methylphenol	N/A	N/A	250	270	270	250
Nitrobenzene	N/A	N/A	250	270	270	250
Isophorone	N/A	N/A	250	270	270	250
2-Nitrophenol	N/A	N/A	250	270	270	250
2,4-Dimethylphenol	N/A	N/A	250	270	270	250
Benzoic acid	N/A	N/A	250	550	540	250
bis(2-chloroethoxy)methane	N/A	N/A	250	270	270	250
2,4-Dichlorophenol	2500	2500000	250	270	270	250
1,2,4-Trichlorobenzene	N/A	N/A	250	270	270	250
Napthalene	2500	2500000	250	270	170	250
4-Chloroaniline	N/A	N/A	250	270	270	250
Hexachlorobutadiene	N/A	N/A	250	270	270	250
4-Chloro-3-methylphenol	N/A	N/A	250	270	270	250
2-Methylnaphthalene	N/A	N/A	250	270	100	250
Hexachlorocyclopentadiene	N/A	N/A	250	270	270	250
2,4,6-Trichlorophenol	N/A	N/A	250	270	270	250
2,4,5-Trichlorophenol	N/A	N/A	510	550	540	510
2-Chloronapthalene	N/A	N/A	250	270	270	250
2-Nitroaniline	N/A	N/A	510	550	540	510
Acenaphthylene	2500	2500000	250	100	1300	80
Dimethylphthalate	N/A	N/A	250	270	270	250
2,6-Dinotrotoluene	N/A	N/A	250	270	270	250
Acenaphthene	N/A	N/A	250	270	53	250
3-Nitroaniline	N/A	N/A	510	550	540	510
2,4-Dinitrophenol	N/A	N/A	510	550	540	510
Dibenzofuran	N/A	N/A	250	270	270	250
2,4-Dinitrotoluene	N/A	N/A	250	270	270	250
4-Nitrophenol	N/A	N/A	510	550	540	510
Fluorene	2500	2500000	250	270	270	250
4-Chlorphenyl-phenylether	N/A	N/A	250	270	270	250
Diethylphthalate	N/A	N/A	250	270	270	250
4-Nitroaniline	N/A	N/A	510	550	540	510
4,6-Dinitro-2-methylphenol	N/A	N/A	510	550	540	510
n-Nitrosodiphenylamine	N/A	N/A	250	270	270	250
4-Bromphenyl-phenylether	N/A	N/A	250	270	270	250
Hexachlorobenzene	3.6	3600	250	270	270	250
Pentachlorophenol	48	48000	510	550	540	510
Phenanthrene	2500	2500000	140	180	260	720
Anthracene	2500	2500000	250	69	570	150
Di-n-butyl phthalate	2500	2500000	250	270	270	250
Fluoranthene	2500	2500000	230	400	1800	1100
Pyrene	2500	2500000	210	390	3500	790
Butyl benzyl phthalate	2500	2500000	250	270	270	250
3,3'-Dichlorobenzidine	N/A	N/A	250	270	270	250
Carbazole	N/A	N/A	250	57	52	190
Benz[a]anthracene	7.8	7800	110	150	2400	380
Chrysene	N/A	N/A	120	270	2500	390
bis(2-ethyl hexyl)phthalate	410	410000	250	270	270	250
Di-n-octyl phthalate	2500	2500000	250	270	270	250
Benzo[b]fluoranthene	7.8	7800	110	300	3300	310
Benzo[k]fluoranthene	78	78000	83	210	1900	290
Benzo[a]pyrene	1	1000	100	170	2800	320
Indeno[1,2,3-cd]pyrene	N/A	N/A	58	75	590	180
Dibenz[a,h]anthracene	N/A	N/A	250	270	210	250
Benzo[g,h,l]perylene	N/A	N/A	58	69	540	160

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All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-5 ESW 03/14/01	A1-5 SSW 03/14/01	A1-6 SS 03/14/01	*A1-6SS-A 03/21/01
bis(2 Chloroethyl)ether	5.2	5200	270	280	280	250
Phenol	2500	2500000	270	280	280	250
2-Chlorophenol	2500	2500000	270	280	280	250
1,3-Dichlorobenzene	1000	1000000	270	280	280	250
1,4-Dichlorobenzene	240	240000	270	280	280	250
1,2-Dichlorobenzene	1000	1000000	270	280	280	250
Benzyl alcohol	N/A	N/A	2700	2900	2800	250
bis(2-chloroisopropyl)ether	82	82000	270	280	280	250
2-Methylphenol	N/A	N/A	270	280	280	250
Hexachloroethane	410	410000	270	280	280	250
N-Nitroso-di-n-propylamine	N/A	N/A	270	280	280	250
4-Methylphenol	N/A	N/A	270	280	280	250
Nitrobenzene	N/A	N/A	270	280	280	250
Isophorone	N/A	N/A	270	280	280	250
2-Nitrophenol	N/A	N/A	270	280	280	250
2,4-Dimethylphenol	N/A	N/A	270	280	280	250
Benzoic acid	N/A	N/A	540	570	560	250
bis(2-chloroethoxy)methane	N/A	N/A	270	280	280	250
2,4-Dichlorophenol	2500	2500000	270	280	280	250
1,2,4-Trichlorobenzene	N/A	N/A	270	280	280	250
Napthalene	2500	2500000	270	280	280	250
4-Chloroaniline	N/A	N/A	270	280	280	250
Hexachlorobutadiene	N/A	N/A	270	280	280	250
4-Chloro-3-methylphenol	N/A	N/A	270	280	280	250
2-Methylnaphthalene	N/A	N/A	270	280	280	250
Hexachlorocyclopentadiene	N/A	N/A	270	280	280	250
2,4,6-Trichlorophenol	N/A	N/A	270	280	280	250
2,4,5-Trichlorophenol	N/A	N/A	540	570	560	510
2-Chloronapthalene	N/A	N/A	270	280	280	250
2-Nitroaniline	N/A	N/A	540	570	560	510
Acenaphthylene	2500	2500000	120	280	280	250
Dimethylphthalate	N/A	N/A	270	280	280	250
2,6-Dinotrotoluene	N/A	N/A	270	280	280	250
Acenaphthene	N/A	N/A	270	280	280	250
3-Nitroaniline	N/A	N/A	540	570	560	510
2,4-Dinitrophenol	N/A	N/A	540	570	560	510
Dibenzofuran	N/A	N/A	270	280	280	250
2,4-Dinitrotoluene	N/A	N/A	270	280	280	250
4-Nitrophenol	N/A	N/A	540	570	560	510
Fluorene	2500	2500000	270	280	280	250
4-Chlorphenyl-phenylether	N/A	N/A	270	280	280	250
Diethylphthalate	N/A	N/A	270	280	280	250
4-Nitroaniline	N/A	N/A	540	570	560	510
4,6-Dinitro-2-methylphenol	N/A	N/A	540	570	560	510
n-Nitrosodiphenylamine	N/A	N/A	270	280	280	250
4-Bromphenyl-phenylether	N/A	N/A	270	280	280	250
Hexachlorobenzene	3.6	3600	270	280	280	250
Pentachlorophenol	48	48000	540	570	560	510
Phenanthrene	2500	2500000	660	280	280	100
Anthracene	2500	2500000	93	280	280	250
Di-n-butyl phthalate	2500	2500000	270	280	280	250
Fluoranthene	2500	2500000	1300	280	280	200
Pyrene	2500	2500000	1300	280	280	160
Butyl benzyl phthalate	2500	2500000	270	280	280	250
3,3'-Dichlorobenzidine	N/A	N/A	270	280	280	250
Carbazole	N/A	N/A	87	280	280	250
Benz[a]anthracene	7.8	7800	580	280	280	91
Chrysene	N/A	N/A	830	280	280	99
bis(2-ethyl hexyl)phthalate	410	410000	270	280	280	250
Di-n-octyl phthalate	2500	2500000	270	280	280	250
Benzo[b]fluoranthene	7.8	7800	870	280	280	84
Benzo[k]fluoranthene	78	78000	730	280	280	62
Benzo[a]pyrene	1	1000	730	280	280	82
Indeno[1,2,3-cd]pyrene	N/A	N/A	290	280	280	250
Dibenz[a,h]anthracene	N/A	N/A	78	280	280	250
Benzo[g,h,l]perylene	N/A	N/A	260	280	280	48

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All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-6 SSW 03/14/01	A1-7 SS 03/14/01	A1-7SS-A 03/21/01	A1-7SS-B 03/26/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	***290***	***290***	***260***	-
Phenol	**2500**	**2500000**	***290***	***290***	***260***	-
2-Chlorophenol	**2500**	**2500000**	***290***	***290***	***260***	-
1,3-Dichlorobenzene	**1000**	**1000000**	***290***	***290***	***260***	-
1,4-Dichlorobenzene	**240**	**240000**	***290***	***290***	***260***	-
1,2-Dichlorobenzene	**1000**	**1000000**	***290***	***290***	***260***	-
Benzyl alcohol	**N/A**	**N/A**	***2900***	***2900***	***260***	-
bis(2-chloroisopropyl)ether	**82**	**82000**	***290***	***290***	***260***	-
2-Methylphenol	**N/A**	**N/A**	***290***	***290***	***260***	-
Hexachloroethane	**410**	**410000**	***290***	***290***	***260***	-
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	***290***	***290***	***260***	-
4-Methylphenol	**N/A**	**N/A**	***290***	***290***	***260***	-
Nitrobenzene	**N/A**	**N/A**	***290***	***290***	***260***	-
Isophorone	**N/A**	**N/A**	***290***	***290***	***260***	-
2-Nitrophenol	**N/A**	**N/A**	***290***	***290***	***260***	-
2,4-Dimethylphenol	**N/A**	**N/A**	***290***	***290***	***260***	-
Benzoic acid	**N/A**	**N/A**	***590***	***570***	***260***	-
bis(2-chloroethoxy)methane	**N/A**	**N/A**	***290***	***290***	***260***	-
2,4-Dichlorophenol	**2500**	**2500000**	***290***	***290***	***260***	-
1,2,4-Trichlorobenzene	**N/A**	**N/A**	***290***	***290***	***260***	-
Napthalene	**2500**	**2500000**	300	***290***	***260***	-
4-Chloroaniline	**N/A**	**N/A**	***290***	***290***	***260***	-
Hexachlorobutadiene	**N/A**	**N/A**	***290***	***290***	***260***	-
4-Chloro-3-methylphenol	**N/A**	**N/A**	***290***	***290***	***260***	-
2-Methylnaphthalene	**N/A**	**N/A**	*83*	***290***	***260***	-
Hexachlorocyclopentadiene	**N/A**	**N/A**	***290***	***290***	***260***	-
2,4,6-Trichlorophenol	**N/A**	**N/A**	***290***	***290***	***260***	-
2,4,5-Trichlorophenol	**N/A**	**N/A**	***290***	***570***	***520***	-
2-Chloronapthalene	**N/A**	**N/A**	***290***	***290***	***260***	-
2-Nitroaniline	**N/A**	**N/A**	***590***	***570***	***520***	-
Acenaphthylene	**2500**	**2500000**	370	460	*230*	-
Dimethylphthalate	**N/A**	**N/A**	***290***	***290***	***260***	-
2,6-Dinotrotoluene	**N/A**	**N/A**	***290***	***290***	***260***	-
Acenaphthene	**N/A**	**N/A**	*260*	***290***	***260***	-
3-Nitroaniline	**N/A**	**N/A**	***590***	570	***520***	-
2,4-Dinitrophenol	**N/A**	**N/A**	***590***	570	***520***	-
Dibenzofuran	**N/A**	**N/A**	***290***	***290***	***260***	-
2,4-Dinitrotoluene	**N/A**	**N/A**	***290***	***290***	***260***	-
4-Nitrophenol	**N/A**	**N/A**	***590***	570	***520***	-
Fluorene	**2500**	**2500000**	*240*	***290***	*64*	-
4-Chlorphenyl-phenylether	**N/A**	**N/A**	***290***	***290***	***260***	-
Diethylphthalate	**N/A**	**N/A**	***290***	***290***	***260***	-
4-Nitroaniline	**N/A**	**N/A**	***590***	***570***	***520***	-
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	***590***	***570***	***520***	-
n-Nitrosodiphenylamine	**N/A**	**N/A**	***290***	***290***	***260***	-
4-Bromphenyl-phenylether	**N/A**	**N/A**	***290***	***290***	***260***	-
Hexachlorobenzene	**3.6**	**3600**	***290***	***290***	***260***	-
Pentachlorophenol	**48**	**48000**	***590***	***570***	***520***	-
Phenanthrene	**2500**	**2500000**	1400	*210*	910	-
Anthracene	**2500**	**2500000**	500	*210*	*190*	-
Di-n-butyl phthalate	**2500**	**2500000**	***290***	***290***	***260***	-
Fluoranthene	**2500**	**2500000**	3600	880	1800	-
Pyrene	**2500**	**2500000**	4100	1800	1700	-
Butyl benzyl phthalate	**2500**	**2500000**	***290***	***290***	***260***	-
3,3'-Dichlorobenzidine	**N/A**	**N/A**	***290***	***290***	***260***	-
Carbazole	**N/A**	**N/A**	*240*	***290***	*100*	-
Benz[a]anthracene	**7.8**	**7800**	2000	920	820	-
Chrysene	**N/A**	**N/A**	2100	1000	990	-
bis(2-ethyl hexyl)phthalate	**410**	**410000**	***290***	***290***	***260***	-
Di-n-octyl phthalate	**2500**	**2500000**	***290***	***290***	***260***	-
Benzo[b]fluoranthene	**7.8**	**7800**	1800	1600	880	-
Benzo[k]fluoranthene	**78**	**78000**	1400	870	710	-
Benzo[a]pyrene	**1**	**1000**	1800	1500	840	-
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	850	740	490	-
Dibenz[a,h]anthracene	**N/A**	**N/A**	*250*	*220*	*120*	-
Benzo[g,h,l]perylene	**N/A**	**N/A**	800	740	480	-

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-8 SS 03/14/01	A1-8SS-A 03/21/01	A1-9 SS 03/14/01	*A1-9SS-A 03/21/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	***280***	-	***280***	-
Phenol	**2500**	**2500000**	***280***	-	***280***	-
2-Chlorophenol	**2500**	**2500000**	***280***	-	***280***	-
1,3-Dichlorobenzene	**1000**	**1000000**	***280***	-	***280***	-
1,4-Dichlorobenzene	**240**	**240000**	***280***	-	***280***	-
1,2-Dichlorobenzene	**1000**	**1000000**	***280***	-	***280***	-
Benzyl alcohol	**N/A**	**N/A**	***2900***	-	***2800***	-
bis(2-chloroisopropyl)ether	**82**	**82000**	***280***	-	***280***	-
2-Methylphenol	**N/A**	**N/A**	***280***	-	***280***	-
Hexachloroethane	**410**	**410000**	***280***	-	***280***	-
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	***280***	-	***280***	-
4-Methylphenol	**N/A**	**N/A**	***280***	-	***280***	-
Nitrobenzene	**N/A**	**N/A**	***280***	-	***280***	-
Isophorone	**N/A**	**N/A**	***280***	-	***280***	-
2-Nitrophenol	**N/A**	**N/A**	***280***	-	***280***	-
2,4-Dimethylphenol	**N/A**	**N/A**	***280***	-	***280***	-
Benzoic acid	**N/A**	**N/A**	***570***	-	***570***	-
bis(2-chloroethoxy)methane	**N/A**	**N/A**	***280***	-	***280***	-
2,4-Dichlorophenol	**2500**	**2500000**	***280***	-	***280***	-
1,2,4-Trichlorobenzene	**N/A**	**N/A**	***280***	-	***280***	-
Napthalene	**2500**	**2500000**	***280***	-	***280***	-
4-Chloroaniline	**N/A**	**N/A**	***280***	-	***280***	-
Hexachlorobutadiene	**N/A**	**N/A**	***280***	-	***280***	-
4-Chloro-3-methylphenol	**N/A**	**N/A**	***280***	-	***280***	-
2-Methylnaphthalene	**N/A**	**N/A**	***280***	-	***280***	-
Hexachlorocyclopentadiene	**N/A**	**N/A**	***280***	-	***280***	-
2,4,6-Trichlorophenol	**N/A**	**N/A**	***280***	-	***280***	-
2,4,5-Trichlorophenol	**N/A**	**N/A**	***570***	-	***570***	-
2-Chloronapthalene	**N/A**	**N/A**	***280***	-	***280***	-
2-Nitroaniline	**N/A**	**N/A**	***570***	-	***570***	-
Acenaphthylene	**2500**	**2500000**	*100*	-	*170*	-
Dimethylphthalate	**N/A**	**N/A**	***280***	-	***280***	-
2,6-Dinotrotoluene	**N/A**	**N/A**	***280***	-	***280***	-
Acenaphthene	**N/A**	**N/A**	***280***	-	***280***	-
3-Nitroaniline	**N/A**	**N/A**	***570***	-	***570***	-
2,4-Dinitrophenol	**N/A**	**N/A**	***570***	-	***570***	-
Dibenzofuran	**N/A**	**N/A**	***280***	-	***280***	-
2,4-Dinitrotoluene	**N/A**	**N/A**	***280***	-	***280***	-
4-Nitrophenol	**N/A**	**N/A**	***570***	-	***570***	-
Fluorene	**2500**	**2500000**	***280***	-	***280***	-
4-Chlorphenyl-phenylether	**N/A**	**N/A**	***280***	-	***280***	-
Diethylphthalate	**N/A**	**N/A**	***280***	-	***280***	-
4-Nitroaniline	**N/A**	**N/A**	***570***	-	***570***	-
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	***570***	-	***570***	-
n-Nitrosodiphenylamine	**N/A**	**N/A**	***280***	-	***280***	-
4-Bromphenyl-phenylether	**N/A**	**N/A**	***280***	-	***280***	-
Hexachlorobenzene	**3.6**	**3600**	***280***	-	***280***	-
Pentachlorophenol	**48**	**48000**	***570***	-	***570***	-
Phenanthrene	**2500**	**2500000**	***280***	-	*190*	-
Anthracene	**2500**	**2500000**	***280***	-	*120*	-
Di-n-butyl phthalate	**2500**	**2500000**	***280***	-	***280***	-
Fluoranthene	**2500**	**2500000**	*120*	-	800	-
Pyrene	**2500**	**2500000**	*190*	-	1100	-
Butyl benzyl phthalate	**2500**	**2500000**	***280***	-	***280***	-
3,3'-Dichlorobenzidine	**N/A**	**N/A**	***280***	-	***280***	-
Carbazole	**N/A**	**N/A**	***280***	-	***280***	-
Benz[a]anthracene	**7.8**	**7800**	*140*	-	520	-
Chrysene	**N/A**	**N/A**	*150*	-	570	-
bis(2-ethyl hexyl)phthalate	**410**	**410000**	***280***	-	***280***	-
Di-n-octyl phthalate	**2500**	**2500000**	***280***	-	***280***	-
Benzo[b]fluoranthene	**7.8**	**7800**	*200*	-	440	-
Benzo[k]fluoranthene	**78**	**78000**	*160*	-	350	-
Benzo[a]pyrene	**1**	**1000**	*220*	-	450	-
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	*120*	-	*190*	-
Dibenz[a,h]anthracene	**N/A**	**N/A**	***280***	-	*65*	-
Benzo[g,h,l]perylene	**N/A**	**N/A**	*130*	-	*200*	-

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-9 NSW 03/14/01	A1-10SS 03/15/01	A1-10NSW 03/15/01	*A1-10NSW-A 03/26/01
bis(2 Chloroethyl)ether	5.2	5200	300	290	260	250
Phenol	2500	2500000	300	290	260	250
2-Chlorophenol	2500	2500000	300	290	260	250
1,3-Dichlorobenzene	1000	1000000	300	290	260	250
1,4-Dichlorobenzene	240	240000	300	290	260	250
1,2-Dichlorobenzene	1000	1000000	300	290	260	250
Benzyl alcohol	N/A	N/A	3000	2900	2600	250
bis(2-chloroisopropyl)ether	82	82000	300	290	260	250
2-Methylphenol	N/A	N/A	300	290	260	250
Hexachloroethane	410	410000	300	290	260	250
N-Nitroso-di-n-propylamine	N/A	N/A	300	290	260	250
4-Methylphenol	N/A	N/A	300	290	260	250
Nitrobenzene	N/A	N/A	300	290	260	250
Isophorone	N/A	N/A	300	290	260	250
2-Nitrophenol	N/A	N/A	300	290	260	250
2,4-Dimethylphenol	N/A	N/A	300	290	260	250
Benzoic acid	N/A	N/A	600	580	520	250
bis(2-chloroethoxy)methane	N/A	N/A	300	290	260	250
2,4-Dichlorophenol	2500	2500000	300	290	260	250
1,2,4-Trichlorobenzene	N/A	N/A	300	290	260	250
Napthalene	2500	2500000	300	67	260	250
4-Chloroaniline	N/A	N/A	300	290	260	250
Hexachlorobutadiene	N/A	N/A	300	290	260	250
4-Chloro-3-methylphenol	N/A	N/A	300	290	260	250
2-Methylnaphthalene	N/A	N/A	300	290	54	250
Hexachlorocyclopentadiene	N/A	N/A	300	290	260	250
2,4,6-Trichlorophenol	N/A	N/A	300	290	260	250
2,4,5-Trichlorophenol	N/A	N/A	600	580	520	510
2-Chloronapthalene	N/A	N/A	300	290	260	250
2-Nitroaniline	N/A	N/A	600	580	520	510
Acenaphthylene	2500	2500000	300	690	740	250
Dimethylphthalate	N/A	N/A	300	290	260	250
2,6-Dinotrotoluene	N/A	N/A	300	290	260	250
Acenaphthene	N/A	N/A	300	59	140	250
3-Nitroaniline	N/A	N/A	600	580	520	510
2,4-Dinitrophenol	N/A	N/A	600	580	520	510
Dibenzofuran	N/A	N/A	300	290	260	250
2,4-Dinitrotoluene	N/A	N/A	300	290	260	250
4-Nitrophenol	N/A	N/A	600	580	520	510
Fluorene	2500	2500000	300	77	180	250
4-Chlorphenyl-phenylether	N/A	N/A	300	290	260	250
Diethylphthalate	N/A	N/A	300	290	260	250
4-Nitroaniline	N/A	N/A	600	580	520	510
4,6-Dinitro-2-methylphenol	N/A	N/A	600	290	520	510
n-Nitrosodiphenylamine	N/A	N/A	300	290	260	250
4-Bromphenyl-phenylether	N/A	N/A	300	290	260	250
Hexachlorobenzene	3.6	3600	300	290	260	250
Pentachlorophenol	48	48000	600	580	520	510
Phenanthrene	2500	2500000	300	610	1500	250
Anthracene	2500	2500000	300	430	640	250
Di-n-butyl phthalate	2500	2500000	300	290	260	250
Fluoranthene	2500	2500000	99	1600	3900	250
Pyrene	2500	2500000	130	2400	4700	250
Butyl benzyl phthalate	2500	2500000	300	290	260	250
3,3'-Dichlorobenzidine	N/A	N/A	300	290	260	250
Carbazole	N/A	N/A	300	89	150	250
Benz[a]anthracene	7.8	7800	75	1400	2300	250
Chrysene	N/A	N/A	100	1500	2500	250
bis(2-ethyl hexyl)phthalate	410	410000	300	290	260	250
Di-n-octyl phthalate	2500	2500000	300	290	260	250
Benzo[b]fluoranthene	7.8	7800	100	2500	3200	250
Benzo[k]fluoranthene	78	78000	96	1300	1800	250
Benzo[a]pyrene	1	1000	110	2200	2500	250
Indeno[1,2,3-cd]pyrene	N/A	N/A	62	720	830	250
Dibenz[a,h]anthracene	N/A	N/A	300	230	270	250
Benzo[g,h,l]perylene	N/A	N/A	68	660	670	250

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-10ESW 03/15/01	A1-11SS 03/15/01	A1-11ESW 03/15/01	A1-11ESW-A 03/26/01
bis(2 Chloroethyl)ether	5.2	5200	290	300	280	250
Phenol	2500	2500000	290	300	280	250
2-Chlorophenol	2500	2500000	290	300	280	250
1,3-Dichlorobenzene	1000	1000000	290	300	280	250
1,4-Dichlorobenzene	240	240000	290	300	280	250
1,2-Dichlorobenzene	1000	1000000	290	300	280	250
Benzyl alcohol	N/A	N/A	2900	3000	2800	250
bis(2-chloroisopropyl)ether	82	82000	290	300	280	250
2-Methylphenol	N/A	N/A	290	300	280	250
Hexachloroethane	410	410000	290	300	280	250
N-Nitroso-di-n-propylamine	N/A	N/A	290	300	280	250
4-Methylphenol	N/A	N/A	290	300	280	250
Nitrobenzene	N/A	N/A	290	300	280	250
Isophorone	N/A	N/A	290	300	280	250
2-Nitrophenol	N/A	N/A	290	300	280	250
2,4-Dimethylphenol	N/A	N/A	290	300	280	250
Benzoic acid	N/A	N/A	570	600	560	250
bis(2-chloroethoxy)methane	N/A	N/A	290	300	280	250
2,4-Dichlorophenol	2500	2500000	290	300	280	250
1,2,4-Trichlorobenzene	N/A	N/A	290	300	280	250
Napthalene	2500	2500000	290	300	69	250
4-Chloroaniline	N/A	N/A	290	300	280	250
Hexachlorobutadiene	N/A	N/A	290	300	280	250
4-Chloro-3-methylphenol	N/A	N/A	290	300	280	250
2-Methylnaphthalene	N/A	N/A	290	300	280	250
Hexachlorocyclopentadiene	N/A	N/A	290	300	280	250
2,4,6-Trichlorophenol	N/A	N/A	290	300	280	250
2,4,5-Trichlorophenol	N/A	N/A	570	600	560	510
2-Chloronapthalene	N/A	N/A	290	300	280	250
2-Nitroaniline	N/A	N/A	570	600	560	510
Acenaphthylene	2500	2500000	290	460	1000	250
Dimethylphthalate	N/A	N/A	290	300	280	250
2,6-Dinotrotoluene	N/A	N/A	290	300	280	250
Acenaphthene	N/A	N/A	290	83	280	250
3-Nitroaniline	N/A	N/A	570	600	560	510
2,4-Dinitrophenol	N/A	N/A	570	600	560	510
Dibenzofuran	N/A	N/A	290	300	280	250
2,4-Dinitrotoluene	N/A	N/A	290	300	280	250
4-Nitrophenol	N/A	N/A	570	600	560	510
Fluorene	2500	2500000	290	140	280	250
4-Chlorphenyl-phenylether	N/A	N/A	290	300	280	250
Diethylphthalate	N/A	N/A	290	300	280	250
4-Nitroaniline	N/A	N/A	570	600	560	510
4,6-Dinitro-2-methylphenol	N/A	N/A	570	600	560	510
n-Nitrosodiphenylamine	N/A	N/A	290	300	280	250
4-Bromphenyl-phenylether	N/A	N/A	290	300	280	250
Hexachlorobenzene	3.6	3600	290	300	280	250
Pentachlorophenol	48	48000	570	600	560	510
Phenanthrene	2500	2500000	290	1400	220	250
Anthracene	2500	2500000	290	480	490	250
Di-n-butyl phthalate	2500	2500000	290	300	280	250
Fluoranthene	2500	2500000	72	2700	800	250
Pyrene	2500	2500000	120	2800	1700	250
Butyl benzyl phthalate	2500	2500000	290	300	280	250
3,3'-Dichlorobenzidine	N/A	N/A	290	300	280	250
Carbazole	N/A	N/A	290	230	65	250
Benz[a]anthracene	7.8	7800	72	1400	1100	250
Chrysene	N/A	N/A	98	1400	1300	250
bis(2-ethyl hexyl)phthalate	410	410000	290	300	280	250
Di-n-octyl phthalate	2500	2500000	290	300	280	250
Benzo[b]fluoranthene	7.8	7800	120	1400	3100	250
Benzo[k]fluoranthene	78	78000	98	1100	1400	250
Benzo[a]pyrene	1	1000	130	1500	2700	250
Indeno[1,2,3-cd]pyrene	N/A	N/A	79	700	1100	250
Dibenz[a,h]anthracene	N/A	N/A	290	210	320	250
Benzo[g,h,I]perylene	N/A	N/A	95	660	1000	250

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-12SS 03/15/01	A1-12ESW 03/15/01	A1-12SSW 03/15/01	A1-12SSW-A 03/26/01
bis(2 Chloroethyl)ether	5.2	5200	320	270	310	250
Phenol	2500	2500000	320	270	310	250
2-Chlorophenol	2500	2500000	320	270	310	250
1,3-Dichlorobenzene	1000	1000000	320	270	310	250
1,4-Dichlorobenzene	240	240000	320	270	310	250
1,2-Dichlorobenzene	1000	1000000	320	270	310	250
Benzyl alcohol	N/A	N/A	3200	2700	3100	250
bis(2-chloroisopropyl)ether	82	82000	320	270	310	250
2-Methylphenol	N/A	N/A	320	270	310	250
Hexachloroethane	410	410000	320	270	310	250
N-Nitroso-di-n-propylamine	N/A	N/A	320	270	310	250
4-Methylphenol	N/A	N/A	320	270	310	250
Nitrobenzene	N/A	N/A	320	270	310	250
Isophorone	N/A	N/A	320	270	310	250
2-Nitrophenol	N/A	N/A	320	270	310	250
2,4-Dimethylphenol	N/A	N/A	320	270	310	250
Benzoic acid	N/A	N/A	630	530	620	250
bis(2-chloroethoxy)methane	N/A	N/A	320	270	310	250
2,4-Dichlorophenol	2500	2500000	320	270	310	250
1,2,4-Trichlorobenzene	N/A	N/A	320	270	310	250
Napthalene	2500	2500000	320	270	57	250
4-Chloroaniline	N/A	N/A	320	270	310	250
Hexachlorobutadiene	N/A	N/A	320	270	310	250
4-Chloro-3-methylphenol	N/A	N/A	320	270	310	250
2-Methylnaphthalene	N/A	N/A	320	270	310	250
Hexachlorocyclopentadiene	N/A	N/A	320	270	310	250
2,4,6-Trichlorophenol	N/A	N/A	320	270	310	250
2,4,5-Trichlorophenol	N/A	N/A	630	530	620	510
2-Chloronapthalene	N/A	N/A	320	270	310	250
2-Nitroaniline	N/A	N/A	630	530	620	510
Acenaphthylene	2500	2500000	320	270	360	250
Dimethylphthalate	N/A	N/A	320	270	310	250
2,6-Dinotrotoluene	N/A	N/A	320	270	310	250
Acenaphthene	N/A	N/A	320	270	310	250
3-Nitroaniline	N/A	N/A	630	530	620	510
2,4-Dinitrophenol	N/A	N/A	630	530	620	510
Dibenzofuran	N/A	N/A	320	270	310	250
2,4-Dinitrotoluene	N/A	N/A	320	270	310	250
4-Nitrophenol	N/A	N/A	630	530	620	510
Fluorene	2500	2500000	320	270	310	250
4-Chlorphenyl-phenylether	N/A	N/A	320	270	310	250
Diethylphthalate	N/A	N/A	320	270	310	250
4-Nitroaniline	N/A	N/A	630	530	620	510
4,6-Dinitro-2-methylphenol	N/A	N/A	630	530	620	510
n-Nitrosodiphenylamine	N/A	N/A	320	270	310	250
4-Bromphenyl-phenylether	N/A	N/A	320	270	310	250
Hexachlorobenzene	3.6	3600	320	270	310	250
Pentachlorophenol	48	48000	630	530	620	510
Phenanthrene	2500	2500000	320	200	230	250
Anthracene	2500	2500000	320	64	190	250
Di-n-butyl phthalate	2500	2500000	320	270	310	250
Fluoranthene	2500	2500000	320	220	1800	250
Pyrene	2500	2500000	66	240	2500	250
Butyl benzyl phthalate	2500	2500000	320	270	310	250
3,3'-Dichlorobenzidine	N/A	N/A	320	270	310	250
Carbazole	N/A	N/A	320	270	310	250
Benz[a]anthracene	7.8	7800	320	110	1400	250
Chrysene	N/A	N/A	320	120	1500	250
bis(2-ethyl hexyl)phthalate	410	410000	320	270	310	250
Di-n-octyl phthalate	2500	2500000	320	270	310	250
Benzo[b]fluoranthene	7.8	7800	320	160	1500	250
Benzo[k]fluoranthene	78	78000	320	110	950	250
Benzo[a]pyrene	1	1000	62	160	1500	250
Indeno[1,2,3-cd]pyrene	N/A	N/A	320	100	600	250
Dibenz[a,h]anthracene	N/A	N/A	320	270	180	250
Benzo[g,h,l]perylene	N/A	N/A	320	120	570	250

Notes: * Represents a sample ID labelling error on the original COC.
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-13SS 03/15/01	A1-13SSW 03/15/01	A1-13SSW-A 03/26/01	A1-14SS 03/15/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	***280***	***280***	-	***280***
Phenol	**2500**	**2500000**	***280***	***280***	-	***280***
2-Chlorophenol	**2500**	**2500000**	***280***	***280***	-	***280***
1,3-Dichlorobenzene	**1000**	**1000000**	***280***	***280***	-	***280***
1,4-Dichlorobenzene	**240**	**240000**	***280***	***280***	-	***280***
1,2-Dichlorobenzene	**1000**	**1000000**	***280***	***280***	-	***280***
Benzyl alcohol	**N/A**	**N/A**	***2800***	***2800***	-	***2800***
bis(2-chloroisopropyl)ether	**82**	**82000**	***280***	***280***	-	***280***
2-Methylphenol	**N/A**	**N/A**	***280***	***280***	-	***280***
Hexachloroethane	**410**	**410000**	***280***	***280***	-	***280***
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	***280***	***280***	-	***280***
4-Methylphenol	**N/A**	**N/A**	***280***	***280***	-	***280***
Nitrobenzene	**N/A**	**N/A**	***280***	***280***	-	***280***
Isophorone	**N/A**	**N/A**	***280***	***280***	-	***280***
2-Nitrophenol	**N/A**	**N/A**	***280***	***280***	-	***280***
2,4-Dimethylphenol	**N/A**	**N/A**	***280***	***280***	-	***280***
Benzoic acid	**N/A**	**N/A**	***560***	***560***	-	***570***
bis(2-chloroethoxy)methane	**N/A**	**N/A**	***280***	***280***	-	***280***
2,4-Dichlorophenol	**2500**	**2500000**	***280***	***280***	-	***280***
1,2,4-Trichlorobenzene	**N/A**	**N/A**	***280***	***280***	-	***280***
Napthalene	**2500**	**2500000**	***280***	***280***	-	***280***
4-Chloroaniline	**N/A**	**N/A**	***280***	***280***	-	***280***
Hexachlorobutadiene	**N/A**	**N/A**	***280***	***280***	-	***280***
4-Chloro-3-methylphenol	**N/A**	**N/A**	***280***	***280***	-	***280***
2-Methylnaphthalene	**N/A**	**N/A**	***280***	***280***	-	***280***
Hexachlorocyclopentadiene	**N/A**	**N/A**	***280***	***280***	-	***280***
2,4,6-Trichlorophenol	**N/A**	**N/A**	***280***	***280***	-	***280***
2,4,5-Trichlorophenol	**N/A**	**N/A**	***560***	***560***	-	***570***
2-Chloronapthalene	**N/A**	**N/A**	***280***	***280***	-	***280***
2-Nitroaniline	**N/A**	**N/A**	***560***	***560***	-	***570***
Acenaphthylene	**2500**	**2500000**	***280***	*230*	-	*230*
Dimethylphthalate	**N/A**	**N/A**	***280***	***280***	-	***280***
2,6-Dinotrotoluene	**N/A**	**N/A**	***280***	***280***	-	***280***
Acenaphthene	**N/A**	**N/A**	***280***	***280***	-	***280***
3-Nitroaniline	**N/A**	**N/A**	***560***	***560***	-	***570***
2,4-Dinitrophenol	**N/A**	**N/A**	***560***	***560***	-	***570***
Dibenzofuran	**N/A**	**N/A**	***280***	***280***	-	*82*
2,4-Dinitrotoluene	**N/A**	**N/A**	***280***	***280***	-	***280***
4-Nitrophenol	**N/A**	**N/A**	***560***	***560***	-	***270***
Fluorene	**2500**	**2500000**	***280***	***280***	-	*140*
4-Chlorphenyl-phenylether	**N/A**	**N/A**	***280***	***280***	-	***280***
Diethylphthalate	**N/A**	**N/A**	***280***	***280***	-	***280***
4-Nitroaniline	**N/A**	**N/A**	***560***	***560***	-	***570***
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	***560***	***560***	-	***570***
n-Nitrosodiphenylamine	**N/A**	**N/A**	***280***	***280***	-	***280***
4-Bromphenyl-phenylether	**N/A**	**N/A**	***280***	***280***	-	***280***
Hexachlorobenzene	**3.6**	**3600**	***280***	***280***	-	***280***
Pentachlorophenol	**48**	**48000**	***560***	***560***	-	***570***
Phenanthrene	**2500**	**2500000**	***280***	*120*	-	960
Anthracene	**2500**	**2500000**	***280***	*100*	-	310
Di-n-butyl phthalate	**2500**	**2500000**	***280***	***280***	-	***280***
Fluoranthene	**2500**	**2500000**	*120*	1100	-	3600
Pyrene	**2500**	**2500000**	*130*	1200	-	5000
Butyl benzyl phthalate	**2500**	**2500000**	***280***	***280***	-	***280***
3,3'-Dichlorobenzidine	**N/A**	**N/A**	***280***	***280***	-	***280***
Carbazole	**N/A**	**N/A**	***280***	***280***	-	*120*
Benz[a]anthracene	**7.8**	**7800**	*66*	780	-	1500
Chrysene	**N/A**	**N/A**	*71*	820	-	1500
bis(2-ethyl hexyl)phthalate	**410**	**410000**	***280***	***280***	-	***280***
Di-n-octyl phthalate	**2500**	**2500000**	***280***	***280***	-	***280***
Benzo[b]fluoranthene	**7.8**	**7800**	*54*	690	-	1600
Benzo[k]fluoranthene	**78**	**78000**	*51*	590	-	1200
Benzo[a]pyrene	**1**	**1000**	*61*	740	-	1500
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	***280***	360	-	650
Dibenz[a,h]anthracene	**N/A**	**N/A**	***280***	*110*	-	*190*
Benzo[g,h,I]perylene	**N/A**	**N/A**	***280***	360	-	550

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All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-15SS 03/15/01	A1-15NSW 03/15/01	*A1-15NSW-A 03/26/01	A1-16WSW 03/15/01
bis(2 Chloroethyl)ether	5.2	5200	260	300	250	5800
Phenol	2500	2500000	260	300	250	1200
2-Chlorophenol	2500	2500000	260	300	250	5800
1,3-Dichlorobenzene	1000	1000000	260	300	250	5800
1,4-Dichlorobenzene	240	240000	260	300	250	5800
1,2-Dichlorobenzene	1000	1000000	260	300	250	5800
Benzyl alcohol	N/A	N/A	2500	3000	250	58000
bis(2-chloroisopropyl)ether	82	82000	260	300	250	5800
2-Methylphenol	N/A	N/A	260	300	250	5800
Hexachloroethane	410	410000	260	300	250	5800
N-Nitroso-di-n-propylamine	N/A	N/A	260	300	250	5800
4-Methylphenol	N/A	N/A	260	300	250	5800
Nitrobenzene	N/A	N/A	260	300	250	5800
Isophorone	N/A	N/A	260	300	250	5800
2-Nitrophenol	N/A	N/A	260	300	250	5800
2,4-Dimethylphenol	N/A	N/A	260	300	250	5800
Benzoic acid	N/A	N/A	510	600	250	12000
bis(2-chloroethoxy)methane	N/A	N/A	260	300	250	5800
2,4-Dichlorophenol	2500	2500000	260	300	250	5800
1,2,4-Trichlorobenzene	N/A	N/A	260	300	250	5800
Napthalene	2500	2500000	260	76	250	5800
4-Chloroaniline	N/A	N/A	260	300	250	5800
Hexachlorobutadiene	N/A	N/A	260	300	250	5800
4-Chloro-3-methylphenol	N/A	N/A	260	300	250	5800
2-Methylnaphthalene	N/A	N/A	260	300	250	5800
Hexachlorocyclopentadiene	N/A	N/A	260	300	250	5800
2,4,6-Trichlorophenol	N/A	N/A	260	300	250	5800
2,4,5-Trichlorophenol	N/A	N/A	510	600	510	12000
2-Chloronapthalene	N/A	N/A	260	300	250	5800
2-Nitroaniline	N/A	N/A	510	600	510	12000
Acenaphthylene	2500	2500000	260	620	250	6300
Dimethylphthalate	N/A	N/A	260	300	250	5800
2,6-Dinotrotoluene	N/A	N/A	260	300	250	5800
Acenaphthene	N/A	N/A	260	120	250	3200
3-Nitroaniline	N/A	N/A	510	600	510	12000
2,4-Dinitrophenol	N/A	N/A	510	600	510	12000
Dibenzofuran	N/A	N/A	260	110	250	3700
2,4-Dinitrotoluene	N/A	N/A	260	300	250	5800
4-Nitrophenol	N/A	N/A	510	600	510	12000
Fluorene	2500	2500000	260	270	250	8800
4-Chlorphenyl-phenylether	N/A	N/A	260	300	250	5800
Diethylphthalate	N/A	N/A	260	300	250	5800
4-Nitroaniline	N/A	N/A	510	600	510	12000
4,6-Dinitro-2-methylphenol	N/A	N/A	510	600	510	12000
n-Nitrosodiphenylamine	N/A	N/A	260	300	250	5800
4-Bromphenyl-phenylether	N/A	N/A	260	300	250	5800
Hexachlorobenzene	3.6	3600	260	300	250	5800
Pentachlorophenol	48	48000	510	600	510	12000
Phenanthrene	2500	2500000	160	2500	250	73000
Anthracene	2500	2500000	260	660	250	14000
Di-n-butyl phthalate	2500	2500000	260	300	250	5800
Fluoranthene	2500	2500000	350	4900	250	95000
Pyrene	2500	2500000	300	5100	250	84000
Butyl benzyl phthalate	2500	2500000	260	300	250	5800
3,3'-Dichlorobenzidine	N/A	N/A	260	300	250	5800
Carbazole	N/A	N/A	260	190	250	6300
Benz[a]anthracene	7.8	7800	150	2800	250	40000
Chrysene	N/A	N/A	160	2900	250	40000
bis(2-ethyl hexyl)phthalate	410	410000	260	75	250	5800
Di-n-octyl phthalate	2500	2500000	260	300	250	5800
Benzo[b]fluoranthene	7.8	7800	140	3000	250	34000
Benzo[k]fluoranthene	78	78000	110	1700	250	26000
Benzo[a]pyrene	1	1000	140	2600	250	32000
Indeno[1,2,3-cd]pyrene	N/A	N/A	86	1100	250	19000
Dibenz[a,h]anthracene	N/A	N/A	260	310	250	4800
Benzo[g,h,I]perylene	N/A	N/A	89	960	250	17000

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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All data presented in ug/kg (ppb) concentrations.

Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-16WSW-A 03/26/01	A1-17WSW 03/15/01	A1-17WSW-A 03/26/01	A1-18WSW 03/15/01
bis(2 Chloroethyl)ether	5.2	5200	250	280	-	290
Phenol	2500	2500000	250	280	-	290
2-Chlorophenol	2500	2500000	250	280	-	290
1,3-Dichlorobenzene	1000	1000000	250	280	-	290
1,4-Dichlorobenzene	240	240000	250	280	-	290
1,2-Dichlorobenzene	1000	1000000	250	280	-	290
Benzyl alcohol	N/A	N/A	250	2800	-	2900
bis(2-chloroisopropyl)ether	82	82000	250	280	-	290
2-Methylphenol	N/A	N/A	250	280	-	290
Hexachloroethane	410	410000	250	280	-	290
N-Nitroso-di-n-propylamine	N/A	N/A	250	280	-	290
4-Methylphenol	N/A	N/A	250	280	-	290
Nitrobenzene	N/A	N/A	250	280	-	290
Isophorone	N/A	N/A	250	280	-	290
2-Nitrophenol	N/A	N/A	250	280	-	290
2,4-Dimethylphenol	N/A	N/A	250	280	-	290
Benzoic acid	N/A	N/A	250	560	-	580
bis(2-chloroethoxy)methane	N/A	N/A	250	280	-	290
2,4-Dichlorophenol	2500	2500000	250	280	-	290
1,2,4-Trichlorobenzene	N/A	N/A	250	280	-	290
Napthalene	2500	2500000	250	280	-	290
4-Chloroaniline	N/A	N/A	250	280	-	290
Hexachlorobutadiene	N/A	N/A	250	280	-	290
4-Chloro-3-methylphenol	N/A	N/A	250	280	-	290
2-Methylnaphthalene	N/A	N/A	250	280	-	290
Hexachlorocyclopentadiene	N/A	N/A	250	280	-	290
2,4,6-Trichlorophenol	N/A	N/A	250	280	-	290
2,4,5-Trichlorophenol	N/A	N/A	510	560	-	580
2-Chloronapthalene	N/A	N/A	250	280	-	290
2-Nitroaniline	N/A	N/A	510	560	-	580
Acenaphthylene	2500	2500000	250	67	-	290
Dimethylphthalate	N/A	N/A	250	280	-	290
2,6-Dinotrotoluene	N/A	N/A	250	280	-	290
Acenaphthene	N/A	N/A	250	280	-	290
3-Nitroaniline	N/A	N/A	510	560	-	580
2,4-Dinitrophenol	N/A	N/A	510	560	-	580
Dibenzofuran	N/A	N/A	250	280	-	290
2,4-Dinitrotoluene	N/A	N/A	250	280	-	290
4-Nitrophenol	N/A	N/A	510	560	-	580
Fluorene	2500	2500000	250	280	-	290
4-Chlorphenyl-phenylether	N/A	N/A	250	280	-	290
Diethylphthalate	N/A	N/A	250	280	-	290
4-Nitroaniline	N/A	N/A	510	560	-	580
4,6-Dinitro-2-methylphenol	N/A	N/A	510	560	-	580
n-Nitrosodiphenylamine	N/A	N/A	250	280	-	290
4-Bromphenyl-phenylether	N/A	N/A	250	280	-	290
Hexachlorobenzene	3.6	3600	250	280	-	290
Pentachlorophenol	48	48000	510	560	-	580
Phenanthrene	2500	2500000	250	190	-	290
Anthracene	2500	2500000	250	57	-	290
Di-n-butyl phthalate	2500	2500000	250	280	-	290
Fluoranthene	2500	2500000	250	350	-	290
Pyrene	2500	2500000	250	340	-	290
Butyl benzyl phthalate	2500	2500000	250	280	-	290
3,3'-Dichlorobenzidine	N/A	N/A	250	280	-	290
Carbazole	N/A	N/A	250	280	-	290
Benz[a]anthracene	7.8	7800	250	200	-	290
Chrysene	N/A	N/A	250	220	-	290
bis(2-ethyl hexyl)phthalate	410	410000	250	280	-	290
Di-n-octyl phthalate	2500	2500000	250	280	-	290
Benzo[b]fluoranthene	7.8	7800	250	250	-	290
Benzo[k]fluoranthene	78	78000	250	170	-	290
Benzo[a]pyrene	1	1000	250	260	-	290
Indeno[1,2,3-cd]pyrene	N/A	N/A	250	150	-	290
Dibenz[a,h]anthracene	N/A	N/A	250	280	-	290
Benzo[g,h,l]perylene	N/A	N/A	250	150	-	290

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Table 3-13
Area 1 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A1-18WSW-A 03/26/01	A1-19SSW 03/15/01	A1-19WSW-A 03/26/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	-	***330***	-
Phenol	**2500**	**2500000**	-	***330***	-
2-Chlorophenol	**2500**	**2500000**	-	***330***	-
1,3-Dichlorobenzene	**1000**	**1000000**	-	***330***	-
1,4-Dichlorobenzene	**240**	**240000**	-	***330***	-
1,2-Dichlorobenzene	**1000**	**1000000**	-	***330***	-
Benzyl alcohol	**N/A**	**N/A**	-	***3300***	-
bis(2-chloroisopropyl)ether	**82**	**82000**	-	***330***	-
2-Methylphenol	**N/A**	**N/A**	-	***330***	-
Hexachloroethane	**410**	**410000**	-	***330***	-
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	-	***330***	-
4-Methylphenol	**N/A**	**N/A**	-	***330***	-
Nitrobenzene	**N/A**	**N/A**	-	***330***	-
Isophorone	**N/A**	**N/A**	-	***330***	-
2-Nitrophenol	**N/A**	**N/A**	-	***330***	-
2,4-Dimethylphenol	**N/A**	**N/A**	-	***330***	-
Benzoic acid	**N/A**	**N/A**	-	***660***	-
bis(2-chloroethoxy)methane	**N/A**	**N/A**	-	***330***	-
2,4-Dichlorophenol	**2500**	**2500000**	-	***330***	-
1,2,4-Trichlorobenzene	**N/A**	**N/A**	-	***330***	-
Napthalene	**2500**	**2500000**	-	***330***	-
4-Chloroaniline	**N/A**	**N/A**	-	***330***	-
Hexachlorobutadiene	**N/A**	**N/A**	-	***330***	-
4-Chloro-3-methylphenol	**N/A**	**N/A**	-	***330***	-
2-Methylnaphthalene	**N/A**	**N/A**	-	***330***	-
Hexachlorocyclopentadiene	**N/A**	**N/A**	-	***330***	-
2,4,6-Trichlorophenol	**N/A**	**N/A**	-	***330***	-
2,4,5-Trichlorophenol	**N/A**	**N/A**	-	***660***	-
2-Chloronapthalene	**N/A**	**N/A**	-	***330***	-
2-Nitroaniline	**N/A**	**N/A**	-	***660***	-
Acenaphthylene	**2500**	**2500000**	-	***330***	-
Dimethylphthalate	**N/A**	**N/A**	-	***330***	-
2,6-Dinotrotoluene	**N/A**	**N/A**	-	***330***	-
Acenaphthene	**N/A**	**N/A**	-	***330***	-
3-Nitroaniline	**N/A**	**N/A**	-	***660***	-
2,4-Dinitrophenol	**N/A**	**N/A**	-	***660***	-
Dibenzofuran	**N/A**	**N/A**	-	***330***	-
2,4-Dinitrotoluene	**N/A**	**N/A**	-	***330***	-
4-Nitrophenol	**N/A**	**N/A**	-	***660***	-
Fluorene	**2500**	**2500000**	-	***330***	-
4-Chlorphenyl-phenylether	**N/A**	**N/A**	-	***330***	-
Diethylphthalate	**N/A**	**N/A**	-	***330***	-
4-Nitroaniline	**N/A**	**N/A**	-	***660***	-
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	-	***660***	-
n-Nitrosodiphenylamine	**N/A**	**N/A**	-	***330***	-
4-Bromphenyl-phenylether	**N/A**	**N/A**	-	***330***	-
Hexachlorobenzene	**3.6**	**3600**	-	***330***	-
Pentachlorophenol	**48**	**48000**	-	***660***	-
Phenanthrene	**2500**	**2500000**	-	***330***	-
Anthracene	**2500**	**2500000**	-	***330***	-
Di-n-butyl phthalate	**2500**	**2500000**	-	***330***	-
Fluoranthene	**2500**	**2500000**	-	***330***	-
Pyrene	**2500**	**2500000**	-	*61*	-
Butyl benzyl phthalate	**2500**	**2500000**	-	***330***	-
3,3'-Dichlorobenzidine	**N/A**	**N/A**	-	***330***	-
Carbazole	**N/A**	**N/A**	-	***330***	-
Benz[a]anthracene	**7.8**	**7800**	-	***330***	-
Chrysene	**N/A**	**N/A**	-	***330***	-
bis(2-ethyl hexyl)phthalate	**410**	**410000**	-	***330***	-
Di-n-octyl phthalate	**2500**	**2500000**	-	***330***	-
Benzo[b]fluoranthene	**7.8**	**7800**	-	***330***	-
Benzo[k]fluoranthene	**78**	**78000**	-	***330***	-
Benzo[a]pyrene	**1**	**1000**	-	***330***	-
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	-	***330***	-
Dibenz[a,h]anthracene	**N/A**	**N/A**	-	***330***	-
Benzo[g,h,I]perylene	**N/A**	**N/A**	-	***330***	-

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-1SS 03/14/01	*A1-1SS-A 03/21/01	A1-1 NESW 03/14/01	A1-1 SESW 03/14/01	A1-1 NSW 03/14/01
Dichlorodifluoromethane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Chloromethane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Vinyl chloride	3	3000	***2.7***	-	***2***	***2.3***	***2.3***
Bromomethane	-	-	***2.7***	-	*1.1*	***2.3***	***2.3***
Chloroethane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Trichlorofluoromethane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Acetone	1000	1000000	17 B	-	40 B	25 B	10 B
1,1-Dichloroethene	9.5	95000	***2.7***	-	***2***	***2.3***	***2.3***
Carbon disulfide	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Methylene chloride	760	760000	4.8 JB	-	4.9 JB	3.4 JB	3.6 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
trans-1,2-Dichloroethene	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
1,1-Dichloroethane	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
Vinyl acetate	-	-	***6.7***	-	***4.9***	***5.7***	***5.8***
2-Butanone (MEK)	1000	1000000	*2.3*	-	5.2	2.9	***2.3***
cis-1,2-Dichloroethene	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
2,2-Dichloropropanone	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Chloroform	940	940000	***2.7***	-	***2***	***2.3***	***2.3***
1,1,1-Trichloroethane	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
1,1-Dichloropropene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Carbon tetrachloride	44	44000	***2.7***	-	***2***	***2.3***	***2.3***
Benzene	200	200000	***2.7***	-	***2***	***2.3***	***2.3***
1,2-Dichloroethane	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
Trichloroethene	520	520000	***2.7***	-	***2***	***2.3***	***2.3***
1,2-Dichloropropane	84	84000	***2.7***	-	***2***	***2.3***	***2.3***
Dibromomethane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Bromodichloromethane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
2-Chloroethylvinyl ether	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
cis-1,3-Dichloropropene	32	32000	***2.7***	-	***2***	***2.3***	***2.3***
Toluene	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
trans-1,3-Dichlororopene	32	32000	***2.7***	-	***2***	***2.3***	***2.3***
1,1,2-Trichloroethane	100	100000	***2.7***	-	***2***	***2.3***	***2.3***
2-Hexanone	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Tetrachloroethene	520	520000	***2.7***	-	***2***	***2.3***	***2.3***
1,3-Dichloropropane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Dibromochloromethane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
1,2-Dibromomethane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Chlorobenzene	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
1,1,1,2-Tetrachloroethane	220	220000	***2.7***	-	***2***	***2.3***	***2.3***
Ethylbenzene	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
p/m-Xylene	1000	1000000	***5.4***	-	***3.9***	***4.6***	***4.6***
o-Xylene	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
Styrene	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
Bromoform	720	720000	***2.7***	-	***2***	***2.3***	***2.3***
1,1,2,2-Tetrachloroethane	220	220000	***2.7***	-	***2***	***2.3***	***2.3***
Bromobenzene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
1,2,3-Trichloropropane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
n-Propylbenzene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
2-Chlorotoluene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
1,3,5-Trimethylbenzene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
4-Chlorotoluene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
tert-Butylbenzene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
1,2,4-Trimethylbenzene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
sec-Butylbenzene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
1,3-Dichlorobenzene	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
p-Isopropyltoluene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
1,4-Dichlorobenzene	240	240000	***2.7***	-	***2***	***2.3***	***2.3***
n-Butylbenzene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
1,2-Dichlorobenzene	1000	1000000	***2.7***	-	***2***	***2.3***	***2.3***
1,2-Dibromo-3-chloropropane	-	-	***2.7***	-	***2***	***2.3***	***2.3***
1,2,4-Trichlorobenzene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Hexachlorobutadiene	-	-	***2.7***	-	***2***	***2.3***	***2.3***
Naphthalene	-	-	*1.9*	-	***2***	***2.3***	***2.3***
1,2,3-Trichlorobenzene	-	-	***2.7***	-	***2***	***2.3***	***2.3***

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-2 SS 03/14/01	*A1-2SS-A 03/21/01	A1-2 ESW 03/14/01	A1-3 SS 03/14/01
Dichlorodifluoromethane	-	-	***2.8***	-	***2.4***	***2.4***
Chloromethane	-	-	***2.8***	-	***2.4***	***2.4***
Vinyl chloride	3	3000	***2.8***	-	***2.4***	***2.4***
Bromomethane	-	-	***2.8***	-	***2.4***	***2.4***
Chloroethane	-	-	***2.8***	-	***2.4***	***2.4***
Trichlorofluoromethane	-	-	***2.8***	-	***2.4***	***2.4***
Acetone	1000	1000000	48 B	-	30 B	20 B
1,1-Dichloroethene	9.5	95000	***2.8***	-	***2.4***	***2.4***
Carbon disulfide	-	-	***2.8***	-	***2.4***	***2.4***
Methylene chloride	760	760000	3.9 JB	-	3.5 JB	3.8 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.8***	-	***2.4***	***2.4***
trans-1,2-Dichloroethene	1000	1000000	***2.8***	-	***2.4***	***2.4***
1,1-Dichloroethane	1000	1000000	***2.8***	-	***2.4***	***2.4***
Vinyl acetate	-	-	***7***	-	***5.9***	***6.1***
2-Butanone (MEK)	1000	1000000	4.5	-	*2.3*	*1.8*
cis-1,2-Dichloroethene	1000	1000000	***2.8***	-	***2.4***	***2.4***
2,2-Dichloropropanone	-	-	***2.8***	-	***2.4***	***2.4***
Chloroform	940	940000	***2.8***	-	***2.4***	***2.4***
1,1,1-Trichloroethane	1000	1000000	***2.8***	-	***2.4***	***2.4***
1,1-Dichloropropene	-	-	***2.8***	-	***2.4***	***2.4***
Carbon tetrachloride	44	44000	***2.8***	-	***2.4***	***2.4***
Benzene	200	200000	***2.8***	-	***2.4***	***2.4***
1,2-Dichloroethane	1000	1000000	***2.8***	-	***2.4***	***2.4***
Trichloroethene	520	520000	***2.8***	-	***2.4***	***2.4***
1,2-Dichloropropane	84	84000	***2.8***	-	***2.4***	***2.4***
Dibromomethane	-	-	***2.8***	-	***2.4***	***2.4***
Bromodichloromethane	-	-	***2.8***	-	***2.4***	***2.4***
2-Chloroethylvinyl ether	-	-	***2.8***	-	***2.4***	***2.4***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.8***	-	***2.4***	***2.4***
cis-1,3-Dichloropropene	32	32000	***2.8***	-	***2.4***	***2.4***
Toluene	1000	1000000	***2.8***	-	***2.4***	***2.4***
trans-1,3-Dichlororopene	32	32000	***2.8***	-	***2.4***	***2.4***
1,1,2-Trichloroethane	100	100000	***2.8***	-	***2.4***	***2.4***
2-Hexanone	-	-	***2.8***	-	***2.4***	***2.4***
Tetrachloroethene	520	520000	***2.8***	-	***2.4***	***2.4***
1,3-Dichloropropane	-	-	***2.8***	-	***2.4***	***2.4***
Dibromochloromethane	-	-	***2.8***	-	***2.4***	***2.4***
1,2-Dibromomethane	-	-	***2.8***	-	***2.4***	***2.4***
Chlorobenzene	1000	1000000	***2.8***	-	***2.4***	***2.4***
1,1,1,2-Tetrachloroethane	220	220000	***2.8***	-	***2.4***	***2.4***
Ethylbenzene	1000	1000000	***2.8***	-	***2.4***	***2.4***
p/m-Xylene	1000	1000000	***5.6***	-	***4.7***	***4.8***
o-Xylene	1000	1000000	***2.8***	-	***2.4***	***2.4***
Styrene	1000	1000000	***2.8***	-	***2.4***	***2.4***
Bromoform	720	720000	***2.8***	-	***2.4***	***2.4***
1,1,2,2-Tetrachloroethane	220	220000	***2.8***	-	***2.4***	***2.4***
Bromobenzene	-	-	***2.8***	-	***2.4***	***2.4***
1,2,3-Trichloropropane	-	-	***2.8***	-	***2.4***	***2.4***
n-Propylbenzene	-	-	***2.8***	-	***2.4***	***2.4***
2-Chlorotoluene	-	-	***2.8***	-	***2.4***	***2.4***
1,3,5-Trimethylbenzene	-	-	***2.8***	-	***2.4***	***2.4***
4-Chlorotoluene	-	-	***2.8***	-	***2.4***	***2.4***
tert-Butylbenzene	-	-	***2.8***	-	***2.4***	***2.4***
1,2,4-Trimethylbenzene	-	-	***2.8***	-	***2.4***	***2.4***
sec-Butylbenzene	-	-	***2.8***	-	***2.4***	***2.4***
1,3-Dichlorobenzene	1000	1000000	***2.8***	-	***2.4***	***2.4***
p-Isopropyltoluene	-	-	***2.8***	-	***2.4***	***2.4***
1,4-Dichlorobenzene	240	240000	***2.8***	-	***2.4***	***2.4***
n-Butylbenzene	-	-	***2.8***	-	***2.4***	***2.4***
1,2-Dichlorobenzene	1000	1000000	***2.8***	-	***2.4***	***2.4***
1,2-Dibromo-3-chloropropane	-	-	***2.8***	-	***2.4***	***2.4***
1,2,4-Trichlorobenzene	-	-	***2.8***	-	***2.4***	***2.4***
Hexachlorobutadiene	-	-	***2.8***	-	***2.4***	***2.4***
Naphthalene	-	-	***2.8***	-	***2.4***	***2.4***
1,2,3-Trichlorobenzene	-	-	***2.8***	-	***2.4***	***2.4***

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	*A1-3SS-A 03/21/01	A1-3 ESW 03/14/01	A1-4 SS 03/14/01	*A1-4SS-A 03/21/01
Dichlorodifluoromethane	-	-	-	***2.2***	***2***	-
Chloromethane	-	-	-	***2.2***	***2***	-
Vinyl chloride	3	3000	-	***2.2***	***2***	-
Bromomethane	-	-	-	***2.2***	***2***	-
Chloroethane	-	-	-	***2.2***	***2***	-
Trichlorofluoromethane	-	-	-	***2.2***	***2***	-
Acetone	1000	1000000	-	34 B	62 B	-
1,1-Dichloroethene	9.5	95000	-	***2.2***	***2***	-
Carbon disulfide	-	-	-	***2.2***	***2***	-
Methylene chloride	760	760000	-	3.5 JB	2.3 JB	-
Methyl tert-butyl ether(MTBE)	1000	1000000	-	***2.2***	***2***	-
trans-1,2-Dichloroethene	1000	1000000	-	***2.2***	***2***	-
1,1-Dichloroethane	1000	1000000	-	***2.2***	***2***	-
Vinyl acetate	-	-	-	***5.4***	***5***	-
2-Butanone (MEK)	1000	1000000	-	2.8	12	-
cis-1,2-Dichloroethene	1000	1000000	-	***2.2***	***2***	-
2,2-Dichloropropanone	-	-	-	***2.2***	***2***	-
Chloroform	940	940000	-	***2.2***	***2***	-
1,1,1-Trichloroethane	1000	1000000	-	***2.2***	***2***	-
1,1-Dichloropropene	-	-	-	***2.2***	***2***	-
Carbon tetrachloride	44	44000	-	***2.2***	***2***	-
Benzene	200	200000	-	***2.2***	***2***	-
1,2-Dichloroethane	1000	1000000	-	***2.2***	***2***	-
Trichloroethene	520	520000	-	***2.2***	***2***	-
1,2-Dichloropropane	84	84000	-	***2.2***	***2***	-
Dibromomethane	-	-	-	***2.2***	***2***	-
Bromodichloromethane	-	-	-	***2.2***	***2***	-
2-Chloroethylvinyl ether	-	-	-	***2.2***	***2***	-
Methyl isobutyl ketone (MIBK)	1000	1000000	-	***2.2***	***2***	-
cis-1,3-Dichloropropene	32	32000	-	***2.2***	***2***	-
Toluene	1000	1000000	-	***2.2***	***2***	-
trans-1,3-Dichlororopene	32	32000	-	***2.2***	***2***	-
1,1,2-Trichloroethane	100	100000	-	***2.2***	***2***	-
2-Hexanone	-	-	-	***2.2***	*1.7*	-
Tetrachloroethene	520	520000	-	***2.2***	***2***	-
1,3-Dichloropropane	-	-	-	***2.2***	***2***	-
Dibromochloromethane	-	-	-	***2.2***	***2***	-
1,2-Dibromomethane	-	-	-	***2.2***	***2***	-
Chlorobenzene	1000	1000000	-	***2.2***	***2***	-
1,1,1,2-Tetrachloroethane	220	220000	-	***2.2***	***2***	-
Ethylbenzene	1000	1000000	-	***2.2***	***2***	-
p/m-Xylene	1000	1000000	-	***4.3***	***4***	-
o-Xylene	1000	1000000	-	***2.2***	***2***	-
Styrene	1000	1000000	-	***2.2***	***2***	-
Bromoform	720	720000	-	***2.2***	***2***	-
1,1,2,2-Tetrachloroethane	220	220000	-	***2.2***	***2***	-
Bromobenzene	-	-	-	***2.2***	***2***	-
1,2,3-Trichloropropane	-	-	-	***2.2***	***2***	-
n-Propylbenzene	-	-	-	***2.2***	***2***	-
2-Chlorotoluene	-	-	-	***2.2***	***2***	-
1,3,5-Trimethylbenzene	-	-	-	***2.2***	***2***	-
4-Chlorotoluene	-	-	-	***2.2***	***2***	-
tert-Butylbenzene	-	-	-	***2.2***	***2***	-
1,2,4-Trimethylbenzene	-	-	-	***2.2***	***2***	-
sec-Butylbenzene	-	-	-	***2.2***	***2***	-
1,3-Dichlorobenzene	1000	1000000	-	***2.2***	***2***	-
p-Isopropyltoluene	-	-	-	***2.2***	***2***	-
1,4-Dichlorobenzene	240	240000	-	***2.2***	***2***	-
n-Butylbenzene	-	-	-	***2.2***	***2***	-
1,2-Dichlorobenzene	1000	1000000	-	***2.2***	***2***	-
1,2-Dibromo-3-chloropropane	-	-	-	***2.2***	***2***	-
1,2,4-Trichlorobenzene	-	-	-	***2.2***	***2***	-
Hexachlorobutadiene	-	-	-	***2.2***	***2***	-
Naphthalene	-	-	-	***2.2***	***2***	-
1,2,3-Trichlorobenzene	-	-	-	***2.2***	***2***	-

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-4 ESW 03/14/01	A1-5 SS 03/14/01	*A1-5SS-A 03/21/01	A1-5 ESW 03/14/01
Dichlorodifluoromethane	-	-	***2.1***	***2.2***	-	***2***
Chloromethane	-	-	***2.1***	***2.2***	-	***2***
Vinyl chloride	3	3000	***2.1***	***2.2***	-	***2***
Bromomethane	-	-	***2.1***	***2.2***	-	***2***
Chloroethane	-	-	***2.1***	***2.2***	-	***2***
Trichlorofluoromethane	-	-	***2.1***	***2.2***	-	***2***
Acetone	1000	1000000	35 B	18 B	-	49 B
1,1-Dichloroethene	9.5	95000	***2.1***	***2.2***	-	***2***
Carbon disulfide	-	-	***2.1***	***2.2***	-	***2***
Methylene chloride	760	760000	3.6 JB	3.2 JB	-	2.9 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.1***	***2.2***	-	***2***
trans-1,2-Dichloroethene	1000	1000000	***2.1***	***2.2***	-	***2***
1,1-Dichloroethane	1000	1000000	***2.1***	***2.2***	-	***2***
Vinyl acetate	-	-	***5.3***	***5.6***	-	***4.9***
2-Butanone (MEK)	1000	1000000	4.1	*1.5*	-	2.1
cis-1,2-Dichloroethene	1000	1000000	***2.1***	***2.2***	-	***2***
2,2-Dichloropropanone	-	-	***2.1***	***2.2***	-	***2***
Chloroform	940	940000	***2.1***	***2.2***	-	***2***
1,1,1-Trichloroethane	1000	1000000	***2.1***	***2.2***	-	***2***
1,1-Dichloropropene	-	-	***2.1***	***2.2***	-	***2***
Carbon tetrachloride	44	44000	***2.1***	***2.2***	-	***2***
Benzene	200	200000	***2.1***	***2.2***	-	***2***
1,2-Dichloroethane	1000	1000000	***2.1***	***2.2***	-	***2***
Trichloroethene	520	520000	***2.1***	*1.4*	-	***2***
1,2-Dichloropropane	84	84000	***2.1***	***2.2***	-	***2***
Dibromomethane	-	-	***2.1***	***2.2***	-	***2***
Bromodichloromethane	-	-	***2.1***	***2.2***	-	***2***
2-Chloroethylvinyl ether	-	-	***2.1***	***2.2***	-	***2***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.1***	***2.2***	-	***2***
cis-1,3-Dichloropropene	32	32000	***2.1***	***2.2***	-	***2***
Toluene	1000	1000000	***2.1***	***2.2***	-	***2***
trans-1,3-Dichlororopene	32	32000	***2.1***	***2.2***	-	***2***
1,1,2-Trichloroethane	100	100000	***2.1***	***2.2***	-	***2***
2-Hexanone	-	-	***2.1***	***2.2***	-	***2***
Tetrachloroethene	520	520000	***2.1***	***2.2***	-	***2***
1,3-Dichloropropane	-	-	***2.1***	***2.2***	-	***2***
Dibromochloromethane	-	-	***2.1***	***2.2***	-	***2***
1,2-Dibromomethane	-	-	***2.1***	***2.2***	-	***2***
Chlorobenzene	1000	1000000	***2.1***	***2.2***	-	***2***
1,1,1,2-Tetrachloroethane	220	220000	***2.1***	***2.2***	-	***2***
Ethylbenzene	1000	1000000	***2.1***	***2.2***	-	***2***
p/m-Xylene	1000	1000000	***4.3***	***4.4***	-	***4***
o-Xylene	1000	1000000	***2.1***	***2.2***	-	***2***
Styrene	1000	1000000	***2.1***	***2.2***	-	***2***
Bromoform	720	720000	***2.1***	***2.2***	-	***2***
1,1,2,2-Tetrachloroethane	220	220000	***2.1***	***2.2***	-	***2***
Bromobenzene	-	-	***2.1***	***2.2***	-	***2***
1,2,3-Trichloropropane	-	-	***2.1***	***2.2***	-	***2***
n-Propylbenzene	-	-	***2.1***	***2.2***	-	***2***
2-Chlorotoluene	-	-	***2.1***	***2.2***	-	***2***
1,3,5-Trimethylbenzene	-	-	***2.1***	***2.2***	-	***2***
4-Chlorotoluene	-	-	***2.1***	***2.2***	-	***2***
tert-Butylbenzene	-	-	***2.1***	***2.2***	-	***2***
1,2,4-Trimethylbenzene	-	-	***2.1***	***2.2***	-	***2***
sec-Butylbenzene	-	-	***2.1***	***2.2***	-	***2***
1,3-Dichlorobenzene	1000	1000000	***2.1***	***2.2***	-	***2***
p-Isopropyltoluene	-	-	***2.1***	***2.2***	-	***2***
1,4-Dichlorobenzene	240	240000	***2.1***	***2.2***	-	***2***
n-Butylbenzene	-	-	***2.1***	***2.2***	-	***2***
1,2-Dichlorobenzene	1000	1000000	***2.1***	***2.2***	-	***2***
1,2-Dibromo-3-chloropropane	-	-	***2.1***	***2.2***	-	***2***
1,2,4-Trichlorobenzene	-	-	***2.1***	***2.2***	-	***2***
Hexachlorobutadiene	-	-	***2.1***	***2.2***	-	***2***
Naphthalene	-	-	***2.1***	***2.2***	-	***2***
1,2,3-Trichlorobenzene	-	-	***2.1***	***2.2***	-	***2***

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-5 SSW 03/14/01	A1-6 SS 03/14/01	*A1-6SS-A 03/21/01	A1-6 SSW 03/14/01
Dichlorodifluoromethane	-	-	***2.2***	***1.8***	-	***2.1***
Chloromethane	-	-	***2.2***	***1.8***	-	***2.1***
Vinyl chloride	3	3000	***2.2***	***1.8***	-	***2.1***
Bromomethane	-	-	***2.2***	***1.8***	-	***2.1***
Chloroethane	-	-	***2.2***	***1.8***	-	***2.1***
Trichlorofluoromethane	-	-	***2.2***	***1.8***	-	***2.1***
Acetone	1000	1000000	58 B	24 B	-	35 B
1,1-Dichloroethene	9.5	95000	***2.2***	***1.8***	-	***2.1***
Carbon disulfide	-	-	***2.2***	***1.8***	-	***2.1***
Methylene chloride	760	760000	4.6 JB	1.8 JB	-	2.9 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.2***	***1.8***	-	***2.1***
trans-1,2-Dichloroethene	1000	1000000	***2.2***	***1.8***	-	***2.1***
1,1-Dichloroethane	1000	1000000	***2.2***	***1.8***	-	***2.1***
Vinyl acetate	-	-	***5.5***	***4.4***	-	***5.3***
2-Butanone (MEK)	1000	1000000	23	*1.5*	-	2.3
cis-1,2-Dichloroethene	1000	1000000	***2.2***	***1.8***	-	***2.1***
2,2-Dichloropropanone	-	-	***2.2***	***1.8***	-	***2.1***
Chloroform	940	940000	***2.2***	***1.8***	-	***2.1***
1,1,1-Trichloroethane	1000	1000000	***2.2***	***1.8***	-	***2.1***
1,1-Dichloropropene	-	-	***2.2***	***1.8***	-	***2.1***
Carbon tetrachloride	44	44000	***2.2***	***1.8***	-	***2.1***
Benzene	200	200000	***2.2***	***1.8***	-	***2.1***
1,2-Dichloroethane	1000	1000000	***2.2***	***1.8***	-	***2.1***
Trichloroethene	520	520000	***2.2***	***1.8***	-	***2.1***
1,2-Dichloropropane	84	84000	***2.2***	***1.6***	-	***2.1***
Dibromomethane	-	-	***2.2***	***1.8***	-	***2.1***
Bromodichloromethane	-	-	***2.2***	***1.8***	-	***2.1***
2-Chloroethylvinyl ether	-	-	***2.2***	***1.8***	-	***2.1***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.2***	***1.8***	-	***2.1***
cis-1,3-Dichloropropene	32	32000	***2.2***	***1.8***	-	***2.1***
Toluene	1000	1000000	***2.2***	***1.8***	-	***2.1***
trans-1,3-Dichlororopene	32	32000	***2.2***	***1.8***	-	***2.1***
1,1,2-Trichloroethane	100	100000	***2.2***	***1.8***	-	***2.1***
2-Hexanone	-	-	***2.2***	***1.8***	-	***2.1***
Tetrachloroethene	520	520000	***2.2***	***1.8***	-	***2.1***
1,3-Dichloropropane	-	-	***2.2***	***1.8***	-	***2.1***
Dibromochloromethane	-	-	***2.2***	***1.8***	-	***2.1***
1,2-Dibromomethane	-	-	***2.2***	***1.8***	-	***2.1***
Chlorobenzene	1000	1000000	***2.2***	***1.8***	-	***2.1***
1,1,1,2-Tetrachloroethane	220	220000	***2.2***	***1.8***	-	***2.1***
Ethylbenzene	1000	1000000	***2.2***	***1.8***	-	***2.1***
p/m-Xylene	1000	1000000	***4.4***	***3.5***	-	***4.2***
o-Xylene	1000	1000000	***2.2***	***1.8***	-	***2.1***
Styrene	1000	1000000	***2.2***	***1.8***	-	***2.1***
Bromoform	720	720000	***2.2***	***1.8***	-	***2.1***
1,1,2,2-Tetrachloroethane	220	220000	***2.2***	***1.8***	-	***2.1***
Bromobenzene	-	-	***2.2***	***1.8***	-	***2.1***
1,2,3-Trichloropropane	-	-	***2.2***	***1.8***	-	***2.1***
n-Propylbenzene	-	-	***2.2***	***1.8***	-	***2.1***
2-Chlorotoluene	-	-	***2.2***	***1.8***	-	***2.1***
1,3,5-Trimethylbenzene	-	-	***2.2***	***1.8***	-	***2.1***
4-Chlorotoluene	-	-	***2.2***	***1.8***	-	***2.1***
tert-Butylbenzene	-	-	***2.2***	***1.8***	-	***2.1***
1,2,4-Trimethylbenzene	-	-	***2.2***	***1.8***	-	***2.1***
sec-Butylbenzene	-	-	***2.2***	***1.8***	-	***2.1***
1,3-Dichlorobenzene	1000	1000000	***2.2***	***1.8***	-	***2.1***
p-Isopropyltoluene	-	-	***2.2***	***1.8***	-	***2.1***
1,4-Dichlorobenzene	240	240000	***2.2***	***1.8***	-	***2.1***
n-Butylbenzene	-	-	***2.2***	***1.8***	-	***2.1***
1,2-Dichlorobenzene	1000	1000000	***2.2***	***1.8***	-	***2.1***
1,2-Dibromo-3-chloropropane	-	-	***2.2***	***1.8***	-	***2.1***
1,2,4-Trichlorobenzene	-	-	***2.2***	***1.8***	-	***2.1***
Hexachlorobutadiene	-	-	***2.2***	***1.8***	-	***2.1***
Naphthalene	-	-	***2.2***	***1.8***	-	***29***
1,2,3-Trichlorobenzene	-	-	***2.2***	***1.8***	-	***2.1***

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-7 SS 03/14/01	A1-7SS-A 03/21/01	A1-7SS-B 03/26/01	A1-8 SS 03/14/01
Dichlorodifluoromethane	-	-	***2.2***	-	-	***2.2***
Chloromethane	-	-	***2.2***	-	-	***2.2***
Vinyl chloride	3	3000	***2.2***	-	-	***2.2***
Bromomethane	-	-	***2.2***	-	-	***2.2***
Chloroethane	-	-	***2.2***	-	-	***2.2***
Trichlorofluoromethane	-	-	***2.2***	-	-	***2.2***
Acetone	1000	1000000	32 B	-	-	15 B
1,1-Dichloroethene	9.5	95000	***2.2***	-	-	***2.2***
Carbon disulfide	-	-	***2.2***	-	-	***2.2***
Methylene chloride	760	760000	2.9 JB	-	-	2.7 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.2***	-	-	***2.2***
trans-1,2-Dichloroethene	1000	1000000	***2.2***	-	-	***2.2***
1,1-Dichloroethane	1000	1000000	***2.2***	-	-	***2.2***
Vinyl acetate	-	-	***5.6***	-	-	***2.2***
2-Butanone (MEK)	1000	1000000	*1.7*	-	-	***2.2***
cis-1,2-Dichloroethene	1000	1000000	***2.2***	-	-	***2.2***
2,2-Dichloropropanone	-	-	***2.2***	-	-	***2.2***
Chloroform	940	940000	***2.2***	-	-	***2.2***
1,1,1-Trichloroethane	1000	1000000	***2.2***	-	-	***2.2***
1,1-Dichloropropene	-	-	***2.2***	-	-	***2.2***
Carbon tetrachloride	44	44000	***2.2***	-	-	***2.2***
Benzene	200	200000	***2.2***	-	-	***2.2***
1,2-Dichloroethane	1000	1000000	***2.2***	-	-	***2.2***
Trichloroethene	520	520000	***2.2***	-	-	***2.2***
1,2-Dichloropropane	84	84000	***2.2***	-	-	***2.2***
Dibromomethane	-	-	***2.2***	-	-	***2.2***
Bromodichloromethane	-	-	***2.2***	-	-	***2.2***
2-Chloroethylvinyl ether	-	-	***2.2***	-	-	***2.2***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.2***	-	-	***2.2***
cis-1,3-Dichloropropene	32	32000	***2.2***	-	-	***2.2***
Toluene	1000	1000000	***2.2***	-	-	***2.2***
trans-1,3-Dichlororopene	32	32000	***2.2***	-	-	***2.2***
1,1,2-Trichloroethane	100	100000	***2.2***	-	-	***2.2***
2-Hexanone	-	-	***2.2***	-	-	***2.2***
Tetrachloroethene	520	520000	***2.2***	-	-	***2.2***
1,3-Dichloropropane	-	-	***2.2***	-	-	***2.2***
Dibromochloromethane	-	-	***2.2***	-	-	***2.2***
1,2-Dibromomethane	-	-	***2.2***	-	-	***2.2***
Chlorobenzene	1000	1000000	***2.2***	-	-	***2.2***
1,1,1,2-Tetrachloroethane	220	220000	***2.2***	-	-	***2.2***
Ethylbenzene	1000	1000000	***2.2***	-	-	***2.2***
p/m-Xylene	1000	1000000	***4.5***	-	-	***4.4***
o-Xylene	1000	1000000	***2.2***	-	-	***2.2***
Styrene	1000	1000000	***2.2***	-	-	***2.2***
Bromoform	720	720000	***2.2***	-	-	***2.2***
1,1,2,2-Tetrachloroethane	220	220000	***2.2***	-	-	***2.2***
Bromobenzene	-	-	***2.2***	-	-	***2.2***
1,2,3-Trichloropropane	-	-	***2.2***	-	-	***2.2***
n-Propylbenzene	-	-	***2.2***	-	-	***2.2***
2-Chlorotoluene	-	-	***2.2***	-	-	***2.2***
1,3,5-Trimethylbenzene	-	-	***2.2***	-	-	***2.2***
4-Chlorotoluene	-	-	***2.2***	-	-	***2.2***
tert-Butylbenzene	-	-	***2.2***	-	-	***2.2***
1,2,4-Trimethylbenzene	-	-	***2.2***	-	-	***2.2***
sec-Butylbenzene	-	-	***2.2***	-	-	***2.2***
1,3-Dichlorobenzene	1000	1000000	***2.2***	-	-	***2.2***
p-Isopropyltoluene	-	-	***2.2***	-	-	***2.2***
1,4-Dichlorobenzene	240	240000	***2.2***	-	-	***2.2***
n-Butylbenzene	-	-	***2.2***	-	-	***2.2***
1,2-Dichlorobenzene	1000	1000000	***2.2***	-	-	***2.2***
1,2-Dibromo-3-chloropropane	-	-	***2.2***	-	-	***2.2***
1,2,4-Trichlorobenzene	-	-	***2.2***	-	-	***2.2***
Hexachlorobutadiene	-	-	***2.2***	-	-	***2.2***
Naphthalene	-	-	3.1	-	-	***2.2***
1,2,3-Trichlorobenzene	-	-	***2.2***	-	-	***2.2***

Notes: * Represents a sample ID labelling error on the original COC.
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-8SS-A 03/21/01	A1-9 SS 03/14/01	*A1-9SS-A 03/21/01	A1-9 NSW 03/14/01
Dichlorodifluoromethane	-	-	-	***2.6***	-	***2.2***
Chloromethane	-	-	-	***2.6***	-	***2.2***
Vinyl chloride	3	3000	-	***2.6***	-	***2.2***
Bromomethane	-	-	-	***2.6***	-	***2.2***
Chloroethane	-	-	-	***2.6***	-	***2.2***
Trichlorofluoromethane	-	-	-	***2.6***	-	***2.2***
Acetone	1000	1000000	-	12 B	-	26 B
1,1-Dichloroethene	9.5	95000	-	***2.6***	-	***2.2***
Carbon disulfide	-	-	-	***2.6***	-	***2.2***
Methylene chloride	760	760000	-	2 JB	-	3.3 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	-	***2.6***	-	***2.2***
trans-1,2-Dichloroethene	1000	1000000	-	***2.6***	-	***2.2***
1,1-Dichloroethane	1000	1000000	-	***2.6***	-	***2.2***
Vinyl acetate	-	-	-	***2.6***	-	***2.2***
2-Butanone (MEK)	1000	1000000	-	***2.6***	-	***2.2***
cis-1,2-Dichloroethene	1000	1000000	-	***2.6***	-	***2.2***
2,2-Dichloropropanone	-	-	-	***2.6***	-	***2.2***
Chloroform	940	940000	-	***2.6***	-	***2.2***
1,1,1-Trichloroethane	1000	1000000	-	***2.6***	-	***2.2***
1,1-Dichloropropene	-	-	-	***2.6***	-	***2.2***
Carbon tetrachloride	44	44000	-	***2.6***	-	***2.2***
Benzene	200	200000	-	***2.6***	-	***2.2***
1,2-Dichloroethane	1000	1000000	-	***2.6***	-	***2.2***
Trichloroethene	520	520000	-	***2.6***	-	***2.2***
1,2-Dichloropropane	84	84000	-	***2.6***	-	***2.2***
Dibromomethane	-	-	-	***2.6***	-	***2.2***
Bromodichloromethane	-	-	-	***2.6***	-	***2.2***
2-Chloroethylvinyl ether	-	-	-	***2.6***	-	***2.2***
Methyl isobutyl ketone (MIBK)	1000	1000000	-	***2.6***	-	***2.2***
cis-1,3-Dichloropropene	32	32000	-	***2.6***	-	***2.2***
Toluene	1000	1000000	-	***2.6***	-	***2.2***
trans-1,3-Dichlororopene	32	32000	-	***2.6***	-	***2.2***
1,1,2-Trichloroethane	100	100000	-	***2.6***	-	***2.2***
2-Hexanone	-	-	-	***2.6***	-	***2.2***
Tetrachloroethene	520	520000	-	***2.6***	-	***2.2***
1,3-Dichloropropane	-	-	-	***2.6***	-	***2.2***
Dibromochloromethane	-	-	-	***2.6***	-	***2.2***
1,2-Dibromomethane	-	-	-	***2.6***	-	***2.2***
Chlorobenzene	1000	1000000	-	***2.6***	-	***2.2***
1,1,1,2-Tetrachloroethane	220	220000	-	***2.6***	-	***2.2***
Ethylbenzene	1000	1000000	-	***2.6***	-	***2.2***
p/m-Xylene	1000	1000000	-	***5.2***	-	***4.4***
o-Xylene	1000	1000000	-	***2.6***	-	***2.2***
Styrene	1000	1000000	-	***2.6***	-	***2.2***
Bromoform	720	720000	-	***2.6***	-	***2.2***
1,1,2,2-Tetrachloroethane	220	220000	-	***2.6***	-	***2.2***
Bromobenzene	-	-	-	***2.6***	-	***2.2***
1,2,3-Trichloropropane	-	-	-	***2.6***	-	***2.2***
n-Propylbenzene	-	-	-	***2.6***	-	***2.2***
2-Chlorotoluene	-	-	-	***2.6***	-	***2.2***
1,3,5-Trimethylbenzene	-	-	-	***2.6***	-	***2.2***
4-Chlorotoluene	-	-	-	***2.6***	-	***2.2***
tert-Butylbenzene	-	-	-	***2.6***	-	***2.2***
1,2,4-Trimethylbenzene	-	-	-	***2.6***	-	***2.2***
sec-Butylbenzene	-	-	-	***2.6***	-	***2.2***
1,3-Dichlorobenzene	1000	1000000	-	***2.6***	-	***2.2***
p-Isopropyltoluene	-	-	-	***2.6***	-	***2.2***
1,4-Dichlorobenzene	240	240000	-	***2.6***	-	***2.2***
n-Butylbenzene	-	-	-	***2.6***	-	***2.2***
1,2-Dichlorobenzene	1000	1000000	-	***2.6***	-	***2.2***
1,2-Dibromo-3-chloropropane	-	-	-	***2.6***	-	***2.2***
1,2,4-Trichlorobenzene	-	-	-	***2.6***	-	***2.2***
Hexachlorobutadiene	-	-	-	***2.6***	-	***2.2***
Naphthalene	-	-	-	***2.6***	-	***2.2***
1,2,3-Trichlorobenzene	-	-	-	***2.6***	-	***2.2***

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-10SS 03/15/01	A1-10NSW 03/15/01	*A1-10NSW-A 03/26/01	A1-10ESW 03/15/01
Dichlorodifluoromethane	-	-	***2.5***	***2.1***	-	***2.3***
Chloromethane	-	-	***2.5***	***2.1***	-	***2.3***
Vinyl chloride	3	3000	***2.5***	***2.1***	-	***2.3***
Bromomethane	-	-	***2.5***	***2.1***	-	***2.3***
Chloroethane	-	-	***2.5***	***2.1***	-	***2.3***
Trichlorofluoromethane	-	-	***2.5***	***2.1***	-	***2.3***
Acetone	1000	1000000	31 B	14 B	-	28 B
1,1-Dichloroethene	9.5	95000	***2.5***	***2.1***	-	***2.3***
Carbon disulfide	-	-	***2.5***	***2.1***	-	***2.3***
Methylene chloride	760	760000	3.3 JB	2.7 JB	-	3.1 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.5***	***2.1***	-	***2.3***
trans-1,2-Dichloroethene	1000	1000000	***2.5***	***2.1***	-	***2.3***
1,1-Dichloroethane	1000	1000000	***2.5***	***2.1***	-	***2.3***
Vinyl acetate	-	-	***2.5***	***2.1***	-	***2.3***
2-Butanone (MEK)	1000	1000000	***2.5***	***2.1***	-	***2.3***
cis-1,2-Dichloroethene	1000	1000000	***2.5***	***2.1***	-	3.8
2,2-Dichloropropanone	-	-	***2.5***	***2.1***	-	***2.3***
Chloroform	940	940000	***2.5***	***2.1***	-	***2.3***
1,1,1-Trichloroethane	1000	1000000	***2.5***	***2.1***	-	***2.3***
1,1-Dichloropropene	-	-	***2.5***	***2.1***	-	***2.3***
Carbon tetrachloride	44	44000	***2.5***	***2.1***	-	***2.3***
Benzene	200	200000	2.6	***2.1***	-	***2.3***
1,2-Dichloroethane	1000	1000000	***2.5***	***2.1***	-	***2.3***
Trichloroethene	520	520000	***2.5***	***2.1***	-	3.8
1,2-Dichloropropane	84	84000	***2.5***	***2.1***	-	***2.3***
Dibromomethane	-	-	***2.5***	***2.1***	-	***2.3***
Bromodichloromethane	-	-	***2.5***	***2.1***	-	***2.3***
2-Chloroethylvinyl ether	-	-	***2.5***	***2.1***	-	***2.3***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.5***	***2.1***	-	***2.3***
cis-1,3-Dichloropropene	32	32000	***2.5***	***2.1***	-	***2.3***
Toluene	1000	1000000	*1.5*	***2.1***	-	***2.3***
trans-1,3-Dichlororopene	32	32000	***2.5***	***2.1***	-	***2.3***
1,1,2-Trichloroethane	100	100000	***2.5***	***2.1***	-	***2.3***
2-Hexanone	-	-	***2.5***	***2.1***	-	***2.3***
Tetrachloroethene	520	520000	***2.5***	***2.1***	-	***2.3***
1,3-Dichloropropane	-	-	***2.5***	***2.1***	-	***2.3***
Dibromochloromethane	-	-	***2.5***	***2.1***	-	***2.3***
1,2-Dibromomethane	-	-	***2.5***	***2.1***	-	***2.3***
Chlorobenzene	1000	1000000	***2.5***	***2.1***	-	***2.3***
1,1,1,2-Tetrachloroethane	220	220000	***2.5***	***2.1***	-	***2.3***
Ethylbenzene	1000	1000000	***2.5***	***2.1***	-	***2.3***
p/m-Xylene	1000	1000000	***5***	***4.1***	-	***4.5***
o-Xylene	1000	1000000	***2.5***	***2.1***	-	***2.3***
Styrene	1000	1000000	***2.5***	***2.1***	-	***2.3***
Bromoform	720	720000	***2.5***	***2.1***	-	***2.3***
1,1,2,2-Tetrachloroethane	220	220000	***2.5***	***2.1***	-	***2.3***
Bromobenzene	-	-	***2.5***	***2.1***	-	***2.3***
1,2,3-Trichloropropane	-	-	***2.5***	***2.1***	-	***2.3***
n-Propylbenzene	-	-	***2.5***	***2.1***	-	***2.3***
2-Chlorotoluene	-	-	***2.5***	***2.1***	-	***2.3***
1,3,5-Trimethylbenzene	-	-	***2.5***	***2.1***	-	***2.3***
4-Chlorotoluene	-	-	***2.5***	***2.1***	-	***2.3***
tert-Butylbenzene	-	-	***2.5***	***2.1***	-	***2.3***
1,2,4-Trimethylbenzene	-	-	***2.5***	***2.1***	-	***2.3***
sec-Butylbenzene	-	-	***2.5***	***2.1***	-	***2.3***
1,3-Dichlorobenzene	1000	1000000	***2.5***	***2.1***	-	***2.3***
p-Isopropyltoluene	-	-	***2.5***	***2.1***	-	***2.3***
1,4-Dichlorobenzene	240	240000	***2.5***	***2.1***	-	***2.3***
n-Butylbenzene	-	-	***2.5***	***2.1***	-	***2.3***
1,2-Dichlorobenzene	1000	1000000	***2.5***	***2.1***	-	***2.3***
1,2-Dibromo-3-chloropropane	-	-	***2.5***	***2.1***	-	***2.3***
1,2,4-Trichlorobenzene	-	-	***2.5***	***2.1***	-	***2.3***
Hexachlorobutadiene	-	-	***2.5***	***2.1***	-	***2.3***
Naphthalene	-	-	12	5.3	-	***2.3***
1,2,3-Trichlorobenzene	-	-	***2.5***	***2.1***	-	***2.3***

Notes: * Represents a sample ID labelling error on the original COC.
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-11SS 03/15/01	A1-11ESW 03/15/01	A1-11ESW-A 03/26/01	A1-12SS 03/15/01
Dichlorodifluoromethane	-	-	***2.2***	***1.9***	-	***2.9***
Chloromethane	-	-	***2.2***	***1.9***	-	***2.9***
Vinyl chloride	3	3000	***2.2***	***1.9***	-	***2.9***
Bromomethane	-	-	***2.2***	***1.9***	-	***2.9***
Chloroethane	-	-	***2.2***	***1.9***	-	***2.9***
Trichlorofluoromethane	-	-	***2.2***	***1.9***	-	***2.9***
Acetone	1000	1000000	25 B	36 B	-	73 B
1,1-Dichloroethene	9.5	95000	***2.2***	***1.9***	-	***2.9***
Carbon disulfide	-	-	***2.2***	***1.9***	-	***2.9***
Methylene chloride	760	760000	3.4 JB	2.7 JB	-	3.6 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.2***	***1.9***	-	***2.9***
trans-1,2-Dichloroethene	1000	1000000	***2.2***	***1.9***	-	***2.9***
1,1-Dichloroethane	1000	1000000	***2.2***	***1.9***	-	***2.9***
Vinyl acetate	-	-	***2.2***	***1.9***	-	***2.9***
2-Butanone (MEK)	1000	1000000	***2.2***	***1.9***	-	***2.9***
cis-1,2-Dichloroethene	1000	1000000	***2.2***	***1.9***	-	***2.9***
2,2-Dichloropropanone	-	-	***2.2***	***1.9***	-	***2.9***
Chloroform	940	940000	***2.2***	***1.9***	-	***2.9***
1,1,1-Trichloroethane	1000	1000000	***2.2***	***1.9***	-	***2.9***
1,1-Dichloropropene	-	-	***2.2***	***1.9***	-	***2.9***
Carbon tetrachloride	44	44000	***2.2***	***1.9***	-	***2.9***
Benzene	200	200000	***2.2***	***1.9***	-	***2.9***
1,2-Dichloroethane	1000	1000000	***2.2***	***1.9***	-	***2.9***
Trichloroethene	520	520000	2.2	***5.6***	-	5.4
1,2-Dichloropropane	84	84000	***2.2***	***1.9***	-	***2.9***
Dibromomethane	-	-	***2.2***	***1.9***	-	***2.9***
Bromodichloromethane	-	-	***2.2***	***1.9***	-	***2.9***
2-Chloroethylvinyl ether	-	-	***2.2***	***1.9***	-	***2.9***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.2***	***1.9***	-	***2.9***
cis-1,3-Dichloropropene	32	32000	***2.2***	***1.9***	-	***2.9***
Toluene	1000	1000000	***2.2***	***1.9***	-	***2.9***
trans-1,3-Dichlororopene	32	32000	***2.2***	***1.9***	-	***2.9***
1,1,2-Trichloroethane	100	100000	***2.2***	***1.9***	-	***2.9***
2-Hexanone	-	-	***2.2***	***1.9***	-	***2.9***
Tetrachloroethene	520	520000	***2.2***	***1.9***	-	***2.9***
1,3-Dichloropropane	-	-	***2.2***	***1.9***	-	***2.9***
Dibromochloromethane	-	-	***2.2***	***1.9***	-	***2.9***
1,2-Dibromomethane	-	-	***2.2***	***1.9***	-	***2.9***
Chlorobenzene	1000	1000000	***2.2***	***1.9***	-	***2.9***
1,1,1,2-Tetrachloroethane	220	220000	***2.2***	***1.9***	-	***2.9***
Ethylbenzene	1000	1000000	***2.2***	***1.9***	-	***2.9***
p/m-Xylene	1000	1000000	***4.3***	***3.7***	-	***5.8***
o-Xylene	1000	1000000	***2.2***	***1.9***	-	***2.9***
Styrene	1000	1000000	***2.2***	***1.9***	-	***2.9***
Bromoform	720	720000	***2.2***	***1.9***	-	***2.9***
1,1,2,2-Tetrachloroethane	220	220000	***2.2***	***1.9***	-	***2.9***
Bromobenzene	-	-	***2.2***	***1.9***	-	***2.9***
1,2,3-Trichloropropane	-	-	***2.2***	***1.9***	-	***2.9***
n-Propylbenzene	-	-	***2.2***	***1.9***	-	***2.9***
2-Chlorotoluene	-	-	***2.2***	***1.9***	-	***2.9***
1,3,5-Trimethylbenzene	-	-	***2.2***	***1.9***	-	***2.9***
4-Chlorotoluene	-	-	***2.2***	***1.9***	-	***2.9***
tert-Butylbenzene	-	-	***2.2***	***1.9***	-	***2.9***
1,2,4-Trimethylbenzene	-	-	***2.2***	***1.9***	-	***2.9***
sec-Butylbenzene	-	-	***2.2***	***1.9***	-	***2.9***
1,3-Dichlorobenzene	1000	1000000	***2.2***	***1.9***	-	***2.9***
p-Isopropyltoluene	-	-	***2.2***	***1.9***	-	***2.9***
1,4-Dichlorobenzene	240	240000	***2.2***	***1.9***	-	***2.9***
n-Butylbenzene	-	-	***2.2***	***1.9***	-	***2.9***
1,2-Dichlorobenzene	1000	1000000	***2.2***	***1.9***	-	***2.9***
1,2-Dibromo-3-chloropropane	-	-	***2.2***	***1.9***	-	***2.9***
1,2,4-Trichlorobenzene	-	-	***2.2***	***1.9***	-	***2.9***
Hexachlorobutadiene	-	-	***2.2***	***1.9***	-	***2.9***
Naphthalene	-	-	11	6.2	-	*1.8*
1,2,3-Trichlorobenzene	-	-	***2.2***	***1.9***	-	***2.9***

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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-12ESW 03/15/01	A1-12SSW 03/15/01	A1-12SSW-A 03/26/01	A1-13SS 03/15/01
Dichlorodifluoromethane	-	-	***2***	***2.3***	-	***2***
Chloromethane	-	-	***2***	***2.3***	-	***2***
Vinyl chloride	3	3000	***2***	***2.3***	-	***2***
Bromomethane	-	-	***2***	***2.3***	-	***2***
Chloroethane	-	-	***2***	***2.3***	-	***2***
Trichlorofluoromethane	-	-	***2***	***2.3***	-	***2***
Acetone	1000	1000000	11 B	22 B	-	24 B
1,1-Dichloroethene	9.5	95000	***2***	***2.3***	-	***2***
Carbon disulfide	-	-	***2***	***2.3***	-	***2***
Methylene chloride	760	760000	2.1 JB	3 JB	-	2.8 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2***	***2.3***	-	***2***
trans-1,2-Dichloroethene	1000	1000000	***2***	***2.3***	-	***2***
1,1-Dichloroethane	1000	1000000	***2***	***2.3***	-	***2***
Vinyl acetate	-	-	***2***	***2.3***	-	***2***
2-Butanone (MEK)	1000	1000000	***2***	***2.3***	-	***2***
cis-1,2-Dichloroethene	1000	1000000	***2***	***2.3***	-	***2***
2,2-Dichloropropanone	-	-	***2***	***2.3***	-	***2***
Chloroform	940	940000	***2***	***2.3***	-	***2***
1,1,1-Trichloroethane	1000	1000000	***2***	***2.3***	-	***2***
1,1-Dichloropropene	-	-	***2***	***2.3***	-	***2***
Carbon tetrachloride	44	44000	***2***	***2.3***	-	***2***
Benzene	200	200000	***2***	***2.3***	-	***2***
1,2-Dichloroethane	1000	1000000	***2***	***2.3***	-	***2***
Trichloroethene	520	520000	***2***	***2.3***	-	***2***
1,2-Dichloropropane	84	84000	***2***	***2.3***	-	***2***
Dibromomethane	-	-	***2***	***2.3***	-	***2***
Bromodichloromethane	-	-	***2***	***2.3***	-	***2***
2-Chloroethylvinyl ether	-	-	***2***	***2.3***	-	***2***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2***	***2.3***	-	***2***
cis-1,3-Dichloropropene	32	32000	***2***	***2.3***	-	***2***
Toluene	1000	1000000	***2***	***2.3***	-	***2***
trans-1,3-Dichlororopene	32	32000	***2***	***2.3***	-	***2***
1,1,2-Trichloroethane	100	100000	***2***	***2.3***	-	***2***
2-Hexanone	-	-	***2***	***2.3***	-	***2***
Tetrachloroethene	520	520000	***2***	***2.3***	-	***2***
1,3-Dichloropropane	-	-	***2***	***2.3***	-	***2***
Dibromochloromethane	-	-	***2***	***2.3***	-	***2***
1,2-Dibromomethane	-	-	***2***	***2.3***	-	***2***
Chlorobenzene	1000	1000000	***2***	***2.3***	-	***2***
1,1,1,2-Tetrachloroethane	220	220000	***2***	***2.3***	-	***2***
Ethylbenzene	1000	1000000	***2***	***2.3***	-	***2***
p/m-Xylene	1000	1000000	***3.9***	***4.5***	-	***4.1***
o-Xylene	1000	1000000	***2***	***2.3***	-	***2***
Styrene	1000	1000000	***2***	***2.3***	-	***2***
Bromoform	720	720000	***2***	***2.3***	-	***2***
1,1,2,2-Tetrachloroethane	220	220000	***2***	***2.3***	-	***2***
Bromobenzene	-	-	***2***	***2.3***	-	***2***
1,2,3-Trichloropropane	-	-	***2***	***2.3***	-	***2***
n-Propylbenzene	-	-	***2***	***2.3***	-	***2***
2-Chlorotoluene	-	-	***2***	***2.3***	-	***2***
1,3,5-Trimethylbenzene	-	-	***2***	***2.3***	-	***2***
4-Chlorotoluene	-	-	***2***	***2.3***	-	***2***
tert-Butylbenzene	-	-	***2***	***2.3***	-	***2***
1,2,4-Trimethylbenzene	-	-	***2***	***2.3***	-	***2***
sec-Butylbenzene	-	-	***2***	***2.3***	-	***2***
1,3-Dichlorobenzene	1000	1000000	***2***	***2.3***	-	***2***
p-Isopropyltoluene	-	-	***2***	***2.3***	-	***2***
1,4-Dichlorobenzene	240	240000	***2***	***2.3***	-	***2***
n-Butylbenzene	-	-	***2***	***2.3***	-	***2***
1,2-Dichlorobenzene	1000	1000000	***2***	***2.3***	-	***2***
1,2-Dibromo-3-chloropropane	-	-	***2***	***2.3***	-	***2***
1,2,4-Trichlorobenzene	-	-	***2***	***2.3***	-	***2***
Hexachlorobutadiene	-	-	***2***	***2.3***	-	***2***
Naphthalene	-	-	16	3	-	***2***
1,2,3-Trichlorobenzene	-	-	***2***	***2.3***	-	***2***

Notes: * Represents a sample ID labelling error on the original COC.
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-13SSW 03/15/01	A1-13SSW-A 03/26/01	A1-14SS 03/15/01	A1-15SS 03/15/01
Dichlorodifluoromethane	-	-	***100***	-	***2.1***	***1.7***
Chloromethane	-	-	***100***	-	***2.1***	***1.7***
Vinyl chloride	3	3000	***100***	-	***2.1***	***1.7***
Bromomethane	-	-	76 JB	-	***2.1***	***1.7***
Chloroethane	-	-	***100***	-	***2.1***	***1.7***
Trichlorofluoromethane	-	-	***100***	-	***2.1***	***1.7***
Acetone	1000	1000000	630 B	-	40 B	6.3 B
1,1-Dichloroethene	9.5	95000	***100***	-	***2.1***	***1.7***
Carbon disulfide	-	-	***100***	-	***2.1***	***1.7***
Methylene chloride	760	760000	250 JB	-	2.6 JB	1.4 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***100***	-	***2.1***	***1.7***
trans-1,2-Dichloroethene	1000	1000000	***100***	-	***2.1***	***1.7***
1,1-Dichloroethane	1000	1000000	***100***	-	***2.1***	***1.7***
Vinyl acetate	-	-	***100***	-	***2.1***	***1.7***
2-Butanone (MEK)	1000	1000000	140 B	-	***2.1***	***1.7***
cis-1,2-Dichloroethene	1000	1000000	***100***	-	***2.1***	***1.7***
2,2-Dichloropropanone	-	-	***100***	-	***2.1***	***1.7***
Chloroform	940	940000	***100***	-	***2.1***	***1.7***
1,1,1-Trichloroethane	1000	1000000	***100***	-	***2.1***	***1.7***
1,1-Dichloropropene	-	-	***100***	-	***2.1***	***1.7***
Carbon tetrachloride	44	44000	***100***	-	***2.1***	***1.7***
Benzene	200	200000	***100***	-	***2.1***	***1.7***
1,2-Dichloroethane	1000	1000000	***100***	-	***2.1***	***1.7***
Trichloroethene	520	520000	***100***	-	***2.1***	***1.7***
1,2-Dichloropropane	84	84000	***100***	-	***2.1***	***1.7***
Dibromomethane	-	-	***100***	-	***2.1***	***1.7***
Bromodichloromethane	-	-	***100***	-	***2.1***	***1.7***
2-Chloroethylvinyl ether	-	-	***100***	-	***2.1***	***1.7***
Methyl isobutyl ketone (MIBK)	1000	1000000	***100***	-	***2.1***	***1.7***
cis-1,3-Dichloropropene	32	32000	***100***	-	***2.1***	***1.7***
Toluene	1000	1000000	***100***	-	***2.1***	***1.7***
trans-1,3-Dichlororopene	32	32000	***100***	-	***2.1***	***1.7***
1,1,2-Trichloroethane	100	100000	***100***	-	***2.1***	***1.7***
2-Hexanone	-	-	***100***	-	***2.1***	***1.7***
Tetrachloroethene	520	520000	***100***	-	***2.1***	***1.7***
1,3-Dichloropropane	-	-	***100***	-	***2.1***	***1.7***
Dibromochloromethane	-	-	***100***	-	***2.1***	***1.7***
1,2-Dibromomethane	-	-	***100***	-	***2.1***	***1.7***
Chlorobenzene	1000	1000000	***100***	-	*1.1*	***1.7***
1,1,1,2-Tetrachloroethane	220	220000	***100***	-	***2.1***	***1.7***
Ethylbenzene	1000	1000000	***100***	-	***2.1***	***1.7***
p/m-Xylene	1000	1000000	***200***	-	***4.2***	***3.3***
o-Xylene	1000	1000000	***100***	-	***2.1***	***1.7***
Styrene	1000	1000000	***100***	-	***2.1***	***1.7***
Bromoform	720	720000	***100***	-	***2.1***	***1.7***
1,1,2,2-Tetrachloroethane	220	220000	***100***	-	***2.1***	***1.7***
Bromobenzene	-	-	***100***	-	***2.1***	***1.7***
1,2,3-Trichloropropane	-	-	***100***	-	***2.1***	***1.7***
n-Propylbenzene	-	-	***100***	-	***2.1***	***1.7***
2-Chlorotoluene	-	-	***100***	-	***2.1***	***1.7***
1,3,5-Trimethylbenzene	-	-	***100***	-	***2.1***	***1.7***
4-Chlorotoluene	-	-	***100***	-	***2.1***	***1.7***
tert-Butylbenzene	-	-	***100***	-	***2.1***	***1.7***
1,2,4-Trimethylbenzene	-	-	***100***	-	***2.1***	***1.7***
sec-Butylbenzene	-	-	***100***	-	***2.1***	***1.7***
1,3-Dichlorobenzene	1000	1000000	***100***	-	***2.1***	***1.7***
p-Isopropyltoluene	-	-	***100***	-	***2.1***	***1.7***
1,4-Dichlorobenzene	240	240000	***100***	-	***2.1***	***1.7***
n-Butylbenzene	-	-	***100***	-	***2.1***	***1.7***
1,2-Dichlorobenzene	1000	1000000	***100***	-	***2.1***	***1.7***
1,2-Dibromo-3-chloropropane	-	-	***100***	-	***2.1***	***1.7***
1,2,4-Trichlorobenzene	-	-	***100***	-	***2.1***	***1.7***
Hexachlorobutadiene	-	-	***100***	-	***2.1***	***1.7***
Naphthalene	-	-	*57*	-	***2.1***	***1.7***
1,2,3-Trichlorobenzene	-	-	***100***	-	***2.1***	***1.7***

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-15NSW 03/15/01	A1-15NSW-A 03/26/01	A1-16WSW 03/15/01	A1-16WSW-A 03/26/01
Dichlorodifluoromethane	-	-	***2.2***	-	***2.3***	-
Chloromethane	-	-	***2.2***	-	***2.3***	-
Vinyl chloride	3	3000	***2.2***	-	***2.3***	-
Bromomethane	-	-	***2.2***	-	***2.3***	-
Chloroethane	-	-	***2.2***	-	***2.3***	-
Trichlorofluoromethane	-	-	***2.2***	-	*1.4*	-
Acetone	1000	1000000	31 B	-	47 B	-
1,1-Dichloroethene	9.5	95000	***2.2***	-	***2.3***	-
Carbon disulfide	-	-	***2.2***	-	***2.3***	-
Methylene chloride	760	760000	2.3 JB	-	2.7 JB	-
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.2***	-	***2.3***	-
trans-1,2-Dichloroethene	1000	1000000	***2.2***	-	***2.3***	-
1,1-Dichloroethane	1000	1000000	***2.2***	-	***2.3***	-
Vinyl acetate	-	-	***2.2***	-	***2.3***	-
2-Butanone (MEK)	1000	1000000	***2.2***	-	***2.3***	-
cis-1,2-Dichloroethene	1000	1000000	***2.2***	-	***2.3***	-
2,2-Dichloropropanone	-	-	***2.2***	-	***2.3***	-
Chloroform	940	940000	***2.2***	-	***2.3***	-
1,1,1-Trichloroethane	1000	1000000	***2.2***	-	***2.3***	-
1,1-Dichloropropene	-	-	***2.2***	-	***2.3***	-
Carbon tetrachloride	44	44000	***2.2***	-	***2.3***	-
Benzene	200	200000	***2.2***	-	***2.3***	-
1,2-Dichloroethane	1000	1000000	***2.2***	-	***2.3***	-
Trichloroethene	520	520000	***2.2***	-	***2.3***	-
1,2-Dichloropropane	84	84000	***2.2***	-	***2.3***	-
Dibromomethane	-	-	***2.2***	-	***2.3***	-
Bromodichloromethane	-	-	***2.2***	-	***2.3***	-
2-Chloroethylvinyl ether	-	-	***2.2***	-	***2.3***	-
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.2***	-	***2.3***	-
cis-1,3-Dichloropropene	32	32000	***2.2***	-	***2.3***	-
Toluene	1000	1000000	***2.2***	-	***2.3***	-
trans-1,3-Dichlororopene	32	32000	***2.2***	-	***2.3***	-
1,1,2-Trichloroethane	100	100000	***2.2***	-	***2.3***	-
2-Hexanone	-	-	***2.2***	-	***2.3***	-
Tetrachloroethene	520	520000	***2.2***	-	***2.3***	-
1,3-Dichloropropane	-	-	***2.2***	-	***2.3***	-
Dibromochloromethane	-	-	***2.2***	-	***2.3***	-
1,2-Dibromomethane	-	-	***2.2***	-	***2.3***	-
Chlorobenzene	1000	1000000	***2.2***	-	***2.3***	-
1,1,1,2-Tetrachloroethane	220	220000	***2.2***	-	***2.3***	-
Ethylbenzene	1000	1000000	***2.2***	-	***2.3***	-
p/m-Xylene	1000	1000000	***4.3***	-	***4.6***	-
o-Xylene	1000	1000000	***2.2***	-	***2.3***	-
Styrene	1000	1000000	***2.2***	-	***2.3***	-
Bromoform	720	720000	***2.2***	-	***2.3***	-
1,1,2,2-Tetrachloroethane	220	220000	***2.2***	-	***2.3***	-
Bromobenzene	-	-	***2.2***	-	***2.3***	-
1,2,3-Trichloropropane	-	-	***2.2***	-	***2.3***	-
n-Propylbenzene	-	-	***2.2***	-	***2.3***	-
2-Chlorotoluene	-	-	***2.2***	-	***2.3***	-
1,3,5-Trimethylbenzene	-	-	***2.2***	-	***2.3***	-
4-Chlorotoluene	-	-	***2.2***	-	***2.3***	-
tert-Butylbenzene	-	-	***2.2***	-	***2.3***	-
1,2,4-Trimethylbenzene	-	-	***2.2***	-	***2.3***	-
sec-Butylbenzene	-	-	***2.2***	-	***2.3***	-
1,3-Dichlorobenzene	1000	1000000	***2.2***	-	***2.3***	-
p-Isopropyltoluene	-	-	***2.2***	-	***2.3***	-
1,4-Dichlorobenzene	240	240000	***2.2***	-	***2.3***	-
n-Butylbenzene	-	-	***2.2***	-	***2.3***	-
1,2-Dichlorobenzene	1000	1000000	***2.2***	-	***2.3***	-
1,2-Dibromo-3-chloropropane	-	-	***2.2***	-	***2.3***	-
1,2,4-Trichlorobenzene	-	-	***2.2***	-	***2.3***	-
Hexachlorobutadiene	-	-	***2.2***	-	***2.3***	-
Naphthalene	-	-	***2.2***	-	***2.3***	-
1,2,3-Trichlorobenzene	-	-	***2.2***	-	***2.3***	-

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-17WSW 03/15/01	A1-17WSW-A 03/26/01	A1-18WSW 03/15/01	A1-18WSW-A 03/26/01
Dichlorodifluoromethane	-	-	***2.1***	-	***2.3***	-
Chloromethane	-	-	***2.1***	-	***2.3***	-
Vinyl chloride	3	3000	***2.1***	-	***2.3***	-
Bromomethane	-	-	***2.1***	-	***2.3***	-
Chloroethane	-	-	***2.1***	-	***2.3***	-
Trichlorofluoromethane	-	-	***2.1***	-	***2.3***	-
Acetone	1000	1000000	15 B	-	80 B	-
1,1-Dichloroethene	9.5	95000	***2.1***	-	***2.3***	-
Carbon disulfide	-	-	***2.1***	-	***2.3***	-
Methylene chloride	760	760000	2.2 JB	-	2.7 JB	-
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.1***	-	***2.3***	-
trans-1,2-Dichloroethene	1000	1000000	***2.1***	-	***2.3***	-
1,1-Dichloroethane	1000	1000000	***2.1***	-	***2.3***	-
Vinyl acetate	-	-	***2.1***	-	***2.3***	-
2-Butanone (MEK)	1000	1000000	***2.1***	-	***2.3***	-
cis-1,2-Dichloroethene	1000	1000000	***2.1***	-	***2.3***	-
2,2-Dichloropropanone	-	-	***2.1***	-	***2.3***	-
Chloroform	940	940000	***2.1***	-	***2.3***	-
1,1,1-Trichloroethane	1000	1000000	***2.1***	-	***2.3***	-
1,1-Dichloropropene	-	-	***2.1***	-	***2.3***	-
Carbon tetrachloride	44	44000	***2.1***	-	***2.3***	-
Benzene	200	200000	***2.1***	-	***2.3***	-
1,2-Dichloroethane	1000	1000000	***2.1***	-	***2.3***	-
Trichloroethene	520	520000	***2.1***	-	***2.3***	-
1,2-Dichloropropane	84	84000	***2.1***	-	***2.3***	-
Dibromomethane	-	-	***2.1***	-	***2.3***	-
Bromodichloromethane	-	-	***2.1***	-	***2.3***	-
2-Chloroethylvinyl ether	-	-	***2.1***	-	***2.3***	-
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.1***	-	***2.3***	-
cis-1,3-Dichloropropene	32	32000	***2.1***	-	***2.3***	-
Toluene	1000	1000000	***2.1***	-	***2.3***	-
trans-1,3-Dichlororopene	32	32000	***2.1***	-	***2.3***	-
1,1,2-Trichloroethane	100	100000	***2.1***	-	***2.3***	-
2-Hexanone	-	-	***2.1***	-	***2.3***	-
Tetrachloroethene	520	520000	***2.1***	-	***2.3***	-
1,3-Dichloropropane	-	-	***2.1***	-	***2.3***	-
Dibromochloromethane	-	-	***2.1***	-	***2.3***	-
1,2-Dibromomethane	-	-	***2.1***	-	***2.3***	-
Chlorobenzene	1000	1000000	***2.1***	-	***2.3***	-
1,1,1,2-Tetrachloroethane	220	220000	***2.1***	-	***2.3***	-
Ethylbenzene	1000	1000000	***2.1***	-	***2.3***	-
p/m-Xylene	1000	1000000	***4.2***	-	***4.5***	-
o-Xylene	1000	1000000	***2.1***	-	***2.3***	-
Styrene	1000	1000000	***2.1***	-	***2.3***	-
Bromoform	720	720000	***2.1***	-	***2.3***	-
1,1,2,2-Tetrachloroethane	220	220000	***2.1***	-	***2.3***	-
Bromobenzene	-	-	***2.1***	-	***2.3***	-
1,2,3-Trichloropropane	-	-	***2.1***	-	***2.3***	-
n-Propylbenzene	-	-	***2.1***	-	***2.3***	-
2-Chlorotoluene	-	-	***2.1***	-	***2.3***	-
1,3,5-Trimethylbenzene	-	-	***2.1***	-	***2.3***	-
4-Chlorotoluene	-	-	***2.1***	-	***2.3***	-
tert-Butylbenzene	-	-	***2.1***	-	***2.3***	-
1,2,4-Trimethylbenzene	-	-	***2.1***	-	***2.3***	-
sec-Butylbenzene	-	-	***2.1***	-	***2.3***	-
1,3-Dichlorobenzene	1000	1000000	***2.1***	-	***2.3***	-
p-Isopropyltoluene	-	-	***2.1***	-	***2.3***	-
1,4-Dichlorobenzene	240	240000	***2.1***	-	***2.3***	-
n-Butylbenzene	-	-	***2.1***	-	***2.3***	-
1,2-Dichlorobenzene	1000	1000000	***2.1***	-	***2.3***	-
1,2-Dibromo-3-chloropropane	-	-	***2.1***	-	***2.3***	-
1,2,4-Trichlorobenzene	-	-	***2.1***	-	***2.3***	-
Hexachlorobutadiene	-	-	***2.1***	-	***2.3***	-
Naphthalene	-	-	***2.1***	-	***2.3***	-
1,2,3-Trichlorobenzene	-	-	***2.1***	-	***2.3***	-

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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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All data presented in ug/kg (ppb) concentrations.

Table 3-14
Area 1 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-19SSW 03/15/01	A1-19WSW-A 03/26/01	Trip Blank 03/14/01	Trip Blank 03/15/01
Dichlorodifluoromethane	-	-	***2.3***	-	***2***	***2***
Chloromethane	-	-	***2.3***	-	***2***	***2***
Vinyl chloride	3	3000	***2.3***	-	***2***	***2***
Bromomethane	-	-	***2.3***	-	***2***	***2***
Chloroethane	-	-	***2.3***	-	***2***	***2***
Trichlorofluoromethane	-	-	***2.3***	-	***2***	***2***
Acetone	1000	1000000	49 B	-	14 B	6.9
1,1-Dichloroethene	9.5	95000	***2.3***	-	***2***	***2***
Carbon disulfide	-	-	***2.3***	-	***2***	***2***
Methylene chloride	760	760000	2.5 JB	-	***5***	1.2 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.3***	-	***2***	***2***
trans-1,2-Dichloroethene	1000	1000000	***2.3***	-	***2***	***2***
1,1-Dichloroethane	1000	1000000	***2.3***	-	***2***	***2***
Vinyl acetate	-	-	***2.3***	-	***5***	***5***
2-Butanone (MEK)	1000	1000000	***2.3***	-	***2***	***2***
cis-1,2-Dichloroethene	1000	1000000	***2.3***	-	***2***	***2***
2,2-Dichloropropanone	-	-	***2.3***	-	***2***	***2***
Chloroform	940	940000	***2.3***	-	***2***	***2***
1,1,1-Trichloroethane	1000	1000000	***2.3***	-	***2***	***2***
1,1-Dichloropropene	-	-	***2.3***	-	***2***	***2***
Carbon tetrachloride	44	44000	***2.3***	-	***2***	***2***
Benzene	200	200000	***2.3***	-	***2***	***2***
1,2-Dichloroethane	1000	1000000	***2.3***	-	***2***	***2***
Trichloroethene	520	520000	***2.3***	-	***2***	***2***
1,2-Dichloropropane	84	84000	***2.3***	-	***2***	***2***
Dibromomethane	-	-	***2.3***	-	***2***	***2***
Bromodichloromethane	-	-	***2.3***	-	***2***	***2***
2-Chloroethylvinyl ether	-	-	***2.3***	-	***2***	***2***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.3***	-	***2***	***2***
cis-1,3-Dichloropropene	32	32000	***2.3***	-	***2***	***2***
Toluene	1000	1000000	***2.3***	-	***2***	***2***
trans-1,3-Dichlororopene	32	32000	***2.3***	-	***2***	***2***
1,1,2-Trichloroethane	100	100000	***2.3***	-	***2***	***2***
2-Hexanone	-	-	***2.3***	-	***2***	***2***
Tetrachloroethene	520	520000	***2.3***	-	***2***	***2***
1,3-Dichloropropane	-	-	***2.3***	-	***2***	***2***
Dibromochloromethane	-	-	***2.3***	-	***2***	***2***
1,2-Dibromomethane	-	-	***2.3***	-	***2***	***2***
Chlorobenzene	1000	1000000	***2.3***	-	***2***	***2***
1,1,1,2-Tetrachloroethane	220	220000	***2.3***	-	***2***	***2***
Ethylbenzene	1000	1000000	***2.3***	-	***2***	***2***
p/m-Xylene	1000	1000000	***4.6***	-	***4***	***4***
o-Xylene	1000	1000000	***2.3***	-	***2***	***2***
Styrene	1000	1000000	***2.3***	-	***2***	***2***
Bromoform	720	720000	***2.3***	-	***2***	***2***
1,1,2,2-Tetrachloroethane	220	220000	***2.3***	-	***2***	***2***
Bromobenzene	-	-	***2.3***	-	***2***	***2***
1,2,3-Trichloropropane	-	-	***2.3***	-	***2***	***2***
n-Propylbenzene	-	-	***2.3***	-	***2***	***2***
2-Chlorotoluene	-	-	***2.3***	-	***2***	***2***
1,3,5-Trimethylbenzene	-	-	***2.3***	-	***2***	***2***
4-Chlorotoluene	-	-	***2.3***	-	***2***	***2***
tert-Butylbenzene	-	-	***2.3***	-	***2***	***2***
1,2,4-Trimethylbenzene	-	-	***2.3***	-	***2***	***2***
sec-Butylbenzene	-	-	***2.3***	-	***2***	***2***
1,3-Dichlorobenzene	1000	1000000	***2.3***	-	***2***	***2***
p-Isopropyltoluene	-	-	***2.3***	-	***2***	***2***
1,4-Dichlorobenzene	240	240000	***2.3***	-	***2***	***2***
n-Butylbenzene	-	-	***2.3***	-	***2***	***2***
1,2-Dichlorobenzene	1000	1000000	***2.3***	-	***2***	***2***
1,2-Dibromo-3-chloropropane	-	-	***2.3***	-	***2***	***2***
1,2,4-Trichlorobenzene	-	-	***2.3***	-	***2***	***2***
Hexachlorobutadiene	-	-	***2.3***	-	***2***	***2***
Naphthalene	-	-	*2*	-	***2***	***2***
1,2,3-Trichlorobenzene	-	-	***2.3***	-	***2***	***2***

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-15
Area 1 Confirmatory Data Summary - TPH
Site: Building A-85 CSA, SUBASENLON

TPH	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A1-1SS 03/14/01	*A1-1SS-A 03/21/01	A1-1 NESW 03/14/01	A1-1 SESW 03/14/01	A1-1 NSW 03/14/01	A1-2 SS 03/14/01	*A1-2SS-A 03/21/01	A1-2 ESW 03/14/01
	2500	2500000	180	-	220	***50***	60	***50***	-	***50***

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-16
Area 2 Confirmatory Data Summary - Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	A2-NSW 03/12/01	A2-ESW 03/12/01	A2-SSW 03/12/01	A2-WSW 03/12/01	A2-SS 03/12/01	*A2-SS-A 03/21/01	*A2-SS-B 03/26/01
Arsenic	**10**	**10**	2.6	12	5.2	5.2	1.8	4.6	0.42
Barium	**140000**	**200**	27	69	43	31	26	38	9.8
Cadmium	**1000**	**1**	0.073	0.1	0.096	0.05	0.051	0.051	***0.031***
Chromium	**100**	**10**	9.5	16	18	11	8.5	13	1.8
Copper	**76000**	**260**	12	19	32	14	13	-	-
Lead Total	**1000**	**3**	3.4	23	12	3.4	2.7	8	1.5
Mercury	**610**	**0.4**	***0.012***	0.024	0.023	***0.0098***	***0.0098***	0.013	0.046
Nickel	**7500**	**20**	9.9	11	14	11	9	-	-
Selenium	**10000**	**10**	***0.19***	0.32	0.16	***0.14***	***0.13***	***0.14***	***0.15***
Silver	**10000**	**7.2**	0.047	0.071	0.074	0.045	4	0.13	***0.033***
Zinc	**610000**	**1000**	26	80	110	26	20	-	-
Metals Extractable/SPLP	**-**	**GB PM Criteria (ug/L) (ppb)**							
Lead	-	**150**	***150***	-	***150***	***150***	-	-	-
Chromium	-	**500**	-	-	**20**	***20***	-	-	-

Notes: * Represents a sample ID labelling error on the original COC.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data are represented in mg/kg (ppm) concentrations. Extractables/SPLP presented in ug/L (ppb).

Table 3-17
Area 2 Confirmatory Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A2-NSW 03/12/01	A2-ESW 03/12/01	A2-SSW 03/12/01	A2-WSW 03/12/01	A2-SS 03/12/01	*A2-SS-A 03/21/01	*A2-SS-B 03/26/01
bis(2 Chloroethyl)ether	5.2	5200	250	300	270	520	250	260	-
Phenol	2500	2500000	250	300	270	520	250	260	-
2-Chlorophenol	2500	2500000	250	300	270	520	250	260	-
1,3-Dichlorobenzene	1000	1000000	250	300	270	520	250	260	-
1,4-Dichlorobenzene	240	240000	250	300	270	520	250	260	-
1,2-Dichlorobenzene	1000	1000000	250	300	270	520	250	260	-
Benzyl alcohol	N/A	N/A	250	300	270	520	250	260	-
bis(2-chloroisopropyl)ether	82	82000	250	300	270	520	250	260	-
2-Methylphenol	N/A	N/A	250	300	270	520	250	260	-
Hexachloroethane	410	410000	250	300	270	520	250	260	-
N-Nitroso-di-n-propylamine	N/A	N/A	250	300	270	520	250	260	-
4-Methylphenol	N/A	N/A	250	300	270	520	250	260	-
Nitrobenzene	N/A	N/A	250	300	270	520	250	260	-
Isophorone	N/A	N/A	250	300	270	520	250	260	-
2-Nitrophenol	N/A	N/A	250	300	270	520	250	260	-
2,4-Dimethylphenol	N/A	N/A	250	300	270	520	250	260	-
Benzoic acid	N/A	N/A	500	600	550	1000	510	260	-
bis(2-chloroethoxy)methane	N/A	N/A	250	300	270	520	250	260	-
2,4-Dichlorophenol	2500	2500000	250	300	270	520	250	260	-
1,2,4-Trichlorobenzene	N/A	N/A	250	300	270	520	250	260	-
Napthalene	2500	2500000	250	300	270	100	250	260	-
4-Chloroaniline	N/A	N/A	250	300	270	520	250	260	-
Hexachlorobutadiene	N/A	N/A	250	300	270	520	250	260	-
4-Chloro-3-methylphenol	N/A	N/A	250	300	270	520	250	260	-
2-Methylnaphthalene	N/A	N/A	250	300	270	520	250	260	-
Hexachlorocyclopentadiene	N/A	N/A	250	300	270	520	250	260	-
2,4,6-Trichlorophenol	N/A	N/A	250	300	270	520	250	260	-
2,4,5-Trichlorophenol	N/A	N/A	500	600	550	1000	510	520	-
2-Chloronapthalene	N/A	N/A	250	300	270	520	250	260	-
2-Nitroaniline	N/A	N/A	500	600	550	1000	510	520	-
Acenaphthylene	2500	2500000	250	110	120	350	250	260	-
Dimethylphthalate	N/A	N/A	250	300	270	520	250	260	-
2,6-Dinotrotoluene	N/A	N/A	250	300	270	520	250	260	-
Acenaphthene	N/A	N/A	250	300	270	420	250	260	-
3-Nitroaniline	N/A	N/A	500	600	550	1000	510	520	-
2,4-Dinitrophenol	N/A	N/A	2500	3000	2700	5200	2500	520	-
Dibenzofuran	N/A	N/A	250	300	270	310	250	260	-
2,4-Dinitrotoluene	N/A	N/A	250	300	270	520	250	260	-
4-Nitrophenol	N/A	N/A	500	600	550	1000	510	520	-
Fluorene	2500	2500000	250	300	270	450	250	260	-
4-Chlorphenyl-phenylether	N/A	N/A	250	300	270	520	250	260	-
Diethylphthalate	N/A	N/A	250	300	270	520	250	260	-
4-Nitroaniline	N/A	N/A	500	600	550	1000	510	520	-
4,6-Dinitro-2-methylphenol	N/A	N/A	2500	3000	2700	5200	2500	520	-
n-Nitrosodiphenylamine	N/A	N/A	250	300	270	520	250	260	-
4-Bromphenyl-phenylether	N/A	N/A	250	300	270	520	250	260	-
Hexachlorobenzene	3.6	3600	250	300	270	520	250	260	-
Pentachlorophenol	48	48000	500	600	550	1000	510	520	-
Phenanthrene	2500	2500000	52	390	140	4900	250	260	-
Anthracene	2500	2500000	250	120	89	1200	250	260	-
Di-n-butyl phthalate	2500	2500000	250	300	270	520	250	260	-
Fluoranthene	2500	2500000	190	1100	850	6100	250	110	-
Pyrene	2500	2500000	180	1100	920	4900	250	120	-
Butyl benzyl phthalate	2500	2500000	250	300	270	520	250	260	-
3,3'-Dichlorobenzidine	N/A	N/A	250	300	270	520	250	260	-
Carbazole	N/A	N/A	250	300	270	720	250	260	-
Benz[a]anthracene	7.8	7800	100	560	580	2900	250	69	-
Chrysene	N/A	N/A	130	580	610	2900	250	84	-
bis(2-ethyl hexyl)phthalate	410	410000	250	300	270	520	250	260	-
Di-n-octyl phthalate	2500	2500000	250	300	270	520	250	260	-
Benzo[b]fluoranthene	7.8	7800	130	440	550	2600	250	81	-
Benzo[k]fluoranthene	78	78000	110	300	470	1500	250	79	-
Benzo[a]pyrene	1	1000	130	450	570	2300	250	77	-
Indeno[1,2,3-cd]pyrene	N/A	N/A	84	250	280	1100	250	260	-
Dibenz[a,h]anthracene	N/A	N/A	250	71	89	360	250	260	-
Benzo[g,h,I]perylene	N/A	N/A	100	270	280	1100	250	260	-

Notes: * Represents a sample ID labelling error on the original COC.

· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.

· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.

· Bold/Italic numerical data represents non-detect levels at the shown detection limit.

· Regular font numerical data represents actual levels.

All data presented in ug/kg (ppb) concentrations.

Table 3-18
Area 2 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A2-NSW 03/12/01	A2-ESW 03/12/01	A2-SSW 03/12/01	A2-WSW 03/12/01	A2-SS 03/12/01	*A2-SS-A 03/21/01	*A2-SS-B 03/26/01	Trip Blank 03/12/01
Dichlorodifluoromethane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Chloromethane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Vinyl chloride	3	3000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Bromomethane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Chloroethane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Trichlorofluoromethane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Acetone	1000	1000000	18 B	66 B	27 B	22 B	25 B	-	-	*12*
1,1-Dichloroethene	9.5	95000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Carbon disulfide	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Methylene chloride	760	760000	3 JB	3.6 JB	2.7 JB	1.9 JB	2.4 JB	-	-	*5*
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
trans-1,2-Dichloroethene	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,1-Dichloroethane	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Vinyl acetate	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***5***
2-Butanone (MEK)	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
cis-1,2-Dichloroethene	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
2,2-Dichloropropanone	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Chloroform	940	940000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,1,1-Trichloroethane	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,1-Dichloropropene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Carbon tetrachloride	44	44000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Benzene	200	200000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,2-Dichloroethane	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Trichloroethene	520	520000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,2-Dichloropropane	84	84000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Dibromomethane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Bromodichloromethane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
2-Chloroethylvinyl ether	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
cis-1,3-Dichloropropene	32	32000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Toluene	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
trans-1,3-Dichlororopene	32	32000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,1,2-Trichloroethane	100	100000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
2-Hexanone	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Tetrachloroethene	520	520000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,3-Dichloropropane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Dibromochloromethane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,2-Dibromomethane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Chlorobenzene	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,1,1,2-Tetrachloroethane	220	220000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Ethylbenzene	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
p/m-Xylene	1000	1000000	***4.3***	***6.3***	***4.1***	***3.4***	***4.3***	-	-	***4***
o-Xylene	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Styrene	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Bromoform	720	720000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,1,2,2-Tetrachloroethane	220	220000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Bromobenzene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,2,3-Trichloropropane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
n-Propylbenzene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
2-Chlorotoluene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,3,5-Trimethylbenzene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
4-Chlorotoluene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
tert-Butylbenzene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,2,4-Trimethylbenzene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
sec-Butylbenzene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,3-Dichlorobenzene	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
p-Isopropyltoluene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,4-Dichlorobenzene	240	240000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
n-Butylbenzene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,2-Dichlorobenzene	1000	1000000	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,2-Dibromo-3-chloropropane	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,2,4-Trichlorobenzene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Hexachlorobutadiene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
Naphthalene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***
1,2,3-Trichlorobenzene	-	-	***2.2***	***3.2***	***2***	***1.7***	***2.1***	-	-	***2***

Notes: * Represents a sample ID labelling error on the original COC.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-19
Area 2 Confirmatory Data Summary - TPH
Site: Building A-85 CSA, SUBASENLON

TPH	Ind/Com (mg/kg)	Adjusted Limits ug/kg	A2-NSW 03/12/01	A2-ESW 03/12/01	A2-SSW 03/12/01	A2-WSW 03/12/01	A2-SS 03/12/01	*A2-SS-A 03/21/01	*A2-SS-B 03/26/01
	2500	2500000	36	22	40	13	***2***	-	-

Notes: * Represents a sample ID labelling error on the original COC.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-20
Area 3 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	A3-1SS 03/13/01	*A3-1NSW 03/13/01	A3-2SS 03/13/01	A3-2ESW 03/13/01	*A3-2ESW-A 03/21/01	A3-2WSW 03/13/01	A3-3SS 03/13/01
Arsenic	**10**	**10**	3.8	8.3	12	0.62	0.22	3.7	19
Barium	**140000**	**200**	14	12	8.9	22	11	38	36
Cadmium	**1000**	**1**	***0.034***	***0.035***	***0.033***	***0.036***	***0.026***	0.051	0.044
Chromium	**100**	**10**	2.4	2.5	2	4.6	2.1	16	10
Copper	**76000**	**260**	3.2	2.7	3.1	5.1	-	9	13
Lead Total	**1000**	**3**	1.5	1.2	1.9	5.6	1	8.5	7.6
Mercury	**610**	**0.4**	***0.01***	***0.01***	***0.01***	***0.011***	***0.011***	0.029	***0.012***
Nickel	**7500**	**20**	1.9	1.7	1.5	3.5	-	8.1	7.9
Selenium	**10000**	**10**	***0.17***	***0.17***	***0.16***	***0.18***	0.13	0.66	***0.18***
Silver	**10000**	**7.2**	***0.035***	***0.035***	***0.033***	***0.035***	***0.026***	0.089	***0.036***
Zinc	**610000**	**1000**	11	9.4	9.1	34	-	28	28

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm).

Table 3-20
Area 3 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	A3-3ESW 03/13/01	A3-4SS 03/13/01	A3-4ESW 03/13/01	A3-4ESW-A 03/21/01	A3-5SS 03/13/01	A3-5ESW 03/13/01	A3-5ESW-A 03/21/01	A3-6SS 03/13/01
Arsenic	**10**	**10**	1.5	320	5.5	0.24	18	8.2	0.22	2.8
Barium	**140000**	**200**	20	47	21	13	48	43	15	26
Cadmium	**1000**	**1**	***0.035***	0.18	0.048	***0.026***	0.076	0.05	***0.026***	***0.04***
Chromium	**100**	**10**	7.6	17	8.5	2.7	23	20	3	15
Copper	**76000**	**260**	5.4	18	7.8	-	16	23	-	7.8
Lead Total	**1000**	**3**	2.2	100	6.6	1.2	7	6.6	1.2	7.6
Mercury	**610**	**0.4**	***0.012***	0.06	0.013	***0.011***	0.017	0.017	***0.011***	0.017
Nickel	**7500**	**20**	5.1	8.4	5	-	13	10	-	6.8
Selenium	**10000**	**10**	***0.17***	***0.21***	***0.19***	***0.13***	0.45	0.47	***0.13***	0.75
Silver	**10000**	**7.2**	***0.038***	0.11	0.039	***0.025***	0.052	0.077	***0.027***	0.054
Zinc	**610000**	**1000**	14	78	20	-	51	38	-	20

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· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm).

Table 3-20
Area 3 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	A3-6SSW 03/13/01	A3-6SSW-A 03/21/01	A3-7SS 03/13/01	A3-7WSW 03/13/01	A3-7WSW-A 03/21/01	A3-8SS 03/13/01	A3-8WSW 03/13/01	A3-8 WSW-A 03/21/01
Arsenic	**10**	**10**	28	0.56	8.5	4.1	0.21	16	10	0.32
Barium	**140000**	**200**	29	13	42	32	14	42	35	12
Cadmium	**1000**	**1**	0.058	***0.025***	0.049	0.037	***0.025***	0.06	0.058	***0.025***
Chromium	**100**	**10**	14	2.6	12	8.1	2	13	11	2.7
Copper	**76000**	**260**	12	-	18	9	-	17	11	-
Lead Total	**1000**	**3**	9.3	2.7	6.8	7.5	1.2	9.8	9.5	1.8
Mercury	**610**	**0.4**	0.022	0.012	0.018	0.012	***0.01***	0.019	***0.011***	***0.01***
Nickel	**7500**	**20**	7.2	-	7.5	5.6	-	8.8	8.2	-
Selenium	**10000**	**10**	0.87	***0.13***	0.28	***0.18***	***0.13***	0.39	0.21	***0.13***
Silver	**10000**	**7.2**	0.094	***0.026***	0.048	***0.032***	***0.026***	0.045	***0.036***	***0.026***
Zinc	**610000**	**1000**	31	-	37	29	-	61	25	-

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All data presented in mg/kg (ppm).

Table 3-20
Area 3 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	A3-9SS 03/13/01	A3-9WSW 03/13/01	A3-9WSW-A 03/21/01	A3-10SS 03/13/01	A3-10WSW 03/13/01	A3-10WSW-A 03/21/01	A3-11SS 03/13/01	A3-11SSW 03/13/01
Arsenic	**10**	**10**	2	18	0.28	4.8	15	0.19	2.7	4.7
Barium	**140000**	**200**	27	31	14	32	37	12	62	40
Cadmium	**1000**	**1**	***0.039***	0.055	***0.028***	***0.043***	0.074	***0.025***	0.058	0.056
Chromium	**100**	**10**	9.7	10	2.3	19	12	2.1	16	19
Copper	**76000**	**260**	11	13	-	11	16	-	36	15
Lead Total	**1000**	**3**	5.1	8.2	1.2	9.7	10	1.1	10	7.2
Mercury	**610**	**0.4**	0.018	0.019	***0.011***	0.024	0.017	***0.0096***	0.036	0.022
Nickel	**7500**	**20**	5.8	6.6	-	8.8	8	-	8.4	9.8
Selenium	**10000**	**10**	0.64	0.34	***0.14***	0.75	0.32	***0.13***	0.91	0.62
Silver	**10000**	**7.2**	0.05	0.059	***0.026***	0.086	0.057	***0.026***	0.075	0.056
Zinc	**610000**	**1000**	25	29	-	27	39	-	48	31

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· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm).

Table 3-20
Area 3 Confirmatory Data Summary- Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	A3-11SSW-A 03/21/01	A3-11SSW-B 03/26/01
Arsenic	**10**	**10**	0.62	0.25
Barium	**140000**	**200**	13	10
Cadmium	**1000**	**1**	***0.026***	***0.032***
Chromium	**100**	**10**	4.4	1.9
Copper	**76000**	**260**	-	-
Lead Total	**1000**	**3**	6.4	1.3
Mercury	**610**	**0.4**	0.047	0.022
Nickel	**7500**	**20**	-	-
Selenium	**10000**	**10**	***0.13***	***0.16***
Silver	**10000**	**7.2**	***0.026***	***0.034***
Zinc	**610000**	**1000**	-	-

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All data presented in mg/kg (ppm).

Table 3-21
Area 3 Confirmatory Data Sumary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A3-1SS 03/13/01	*A3-1NSW 03/13/01	A3-2SS 03/13/01	A3-2ESW 03/13/01
bis(2 Chloroethyl)ether	5.2	5200	270	260	260	280
Phenol	2500	2500000	270	260	260	280
2-Chlorophenol	2500	2500000	270	260	260	280
1,3-Dichlorobenzene	1000	1000000	270	260	260	280
1,4-Dichlorobenzene	240	240000	270	260	260	280
1,2-Dichlorobenzene	1000	1000000	270	260	260	280
Benzyl alcohol	N/A	N/A	2700	2600	2600	2800
bis(2-chloroisopropyl)ether	82	82000	270	260	260	280
2-Methylphenol	N/A	N/A	270	260	260	280
Hexachloroethane	410	410000	270	260	260	280
N-Nitroso-di-n-propylamine	N/A	N/A	270	260	260	280
4-Methylphenol	N/A	N/A	270	260	260	280
Nitrobenzene	N/A	N/A	270	260	260	280
Isophorone	N/A	N/A	270	260	260	280
2-Nitrophenol	N/A	N/A	270	260	260	280
2,4-Dimethylphenol	N/A	N/A	270	260	260	280
Benzoic acid	N/A	N/A	530	530	520	570
bis(2-chloroethoxy)methane	N/A	N/A	270	260	260	280
2,4-Dichlorophenol	2500	2500000	270	260	260	280
1,2,4-Trichlorobenzene	N/A	N/A	270	260	260	280
Napthalene	2500	2500000	270	260	260	280
4-Chloroaniline	N/A	N/A	270	260	260	280
Hexachlorobutadiene	N/A	N/A	270	260	260	280
4-Chloro-3-methylphenol	N/A	N/A	270	260	260	280
2-Methylnaphthalene	N/A	N/A	270	260	260	280
Hexachlorocyclopentadiene	N/A	N/A	270	260	260	280
2,4,6-Trichlorophenol	N/A	N/A	270	260	260	280
2,4,5-Trichlorophenol	N/A	N/A	530	530	520	570
2-Chloronapthalene	N/A	N/A	270	260	260	280
2-Nitroaniline	N/A	N/A	530	530	520	570
Acenaphthylene	2500	2500000	270	260	260	58
Dimethylphthalate	N/A	N/A	270	260	260	280
2,6-Dinotrotoluene	N/A	N/A	270	260	260	280
Acenaphthene	N/A	N/A	270	260	260	180
3-Nitroaniline	N/A	N/A	530	530	520	570
2,4-Dinitrophenol	N/A	N/A	530	530	520	570
Dibenzofuran	N/A	N/A	270	260	260	83
2,4-Dinitrotoluene	N/A	N/A	270	260	260	280
4-Nitrophenol	N/A	N/A	530	530	520	570
Fluorene	2500	2500000	270	260	260	170
4-Chlorphenyl-phenylether	N/A	N/A	270	260	260	280
Diethylphthalate	N/A	N/A	270	260	260	280
4-Nitroaniline	N/A	N/A	530	530	520	570
4,6-Dinitro-2-methylphenol	N/A	N/A	530	530	520	570
n-Nitrosodiphenylamine	N/A	N/A	270	260	260	280
4-Bromphenyl-phenylether	N/A	N/A	270	260	260	280
Hexachlorobenzene	3.6	3600	270	260	260	280
Pentachlorophenol	48	48000	530	530	520	570
Phenanthrene	2500	2500000	270	260	110	1600
Anthracene	2500	2500000	270	260	260	430
Di-n-butyl phthalate	2500	2500000	270	260	260	280
Fluoranthene	2500	2500000	82	260	300	2200
Pyrene	2500	2500000	75	260	290	1700
Butyl benzyl phthalate	2500	2500000	270	260	260	280
3,3'-Dichlorobenzidine	N/A	N/A	270	260	260	280
Carbazole	N/A	N/A	270	260	260	260
Benz[a]anthracene	7.8	7800	270	260	100	930
Chrysene	N/A	N/A	270	260	160	930
bis(2-ethyl hexyl)phthalate	410	410000	270	260	60	280
Di-n-octyl phthalate	2500	2500000	270	260	260	280
Benzo[b]fluoranthene	7.8	7800	270	260	130	940
Benzo[k]fluoranthene	78	78000	270	260	100	440
Benzo[a]pyrene	1	1000	270	260	100	770
Indeno[1,2,3-cd]pyrene	N/A	N/A	270	260	72	480
Dibenz[a,h]anthracene	N/A	N/A	270	260	260	130
Benzo[g,h,l]perylene	N/A	N/A	270	260	82	500

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Table 3-21
Area 3 Confirmatory Data Sumary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	*A3-2ESW-A 03/21/01	A3-2WSW 03/13/01	A3-3SS 03/13/01	A3-3ESW 03/13/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	-	***320***	***290***	***280***
Phenol	**2500**	**2500000**	-	***320***	***290***	***280***
2-Chlorophenol	**2500**	**2500000**	-	***320***	***290***	***280***
1,3-Dichlorobenzene	**1000**	**1000000**	-	***320***	***290***	***280***
1,4-Dichlorobenzene	**240**	**240000**	-	***320***	***290***	***280***
1,2-Dichlorobenzene	**1000**	**1000000**	-	***320***	***290***	***280***
Benzyl alcohol	**N/A**	**N/A**	-	***3200***	***2900***	***2800***
bis(2-chloroisopropyl)ether	**82**	**82000**	-	***320***	***290***	***280***
2-Methylphenol	**N/A**	**N/A**	-	***320***	***290***	***280***
Hexachloroethane	**410**	**410000**	-	***320***	***290***	***280***
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	-	***320***	***290***	***280***
4-Methylphenol	**N/A**	**N/A**	-	***320***	***290***	***280***
Nitrobenzene	**N/A**	**N/A**	-	***320***	***290***	***280***
Isophorone	**N/A**	**N/A**	-	***320***	***290***	***280***
2-Nitrophenol	**N/A**	**N/A**	-	***320***	***290***	***280***
2,4-Dimethylphenol	**N/A**	**N/A**	-	***320***	***290***	***280***
Benzoic acid	**N/A**	**N/A**	-	***630***	***590***	***570***
bis(2-chloroethoxy)methane	**N/A**	**N/A**	-	***320***	***290***	***280***
2,4-Dichlorophenol	**2500**	**2500000**	-	***320***	***290***	***280***
1,2,4-Trichlorobenzene	**N/A**	**N/A**	-	***320***	***290***	***280***
Napthalene	**2500**	**2500000**	-	***320***	***290***	***280***
4-Chloroaniline	**N/A**	**N/A**	-	***320***	***290***	***280***
Hexachlorobutadiene	**N/A**	**N/A**	-	***320***	***290***	***280***
4-Chloro-3-methylphenol	**N/A**	**N/A**	-	***320***	***290***	***280***
2-Methylnaphthalene	**N/A**	**N/A**	-	***320***	***290***	***280***
Hexachlorocyclopentadiene	**N/A**	**N/A**	-	***320***	***290***	***280***
2,4,6-Trichlorophenol	**N/A**	**N/A**	-	***320***	***290***	***280***
2,4,5-Trichlorophenol	**N/A**	**N/A**	-	***630***	***590***	***570***
2-Chloronapthalene	**N/A**	**N/A**	-	***320***	***290***	***280***
2-Nitroaniline	**N/A**	**N/A**	-	***630***	***590***	***570***
Acenaphthylene	**2500**	**2500000**	-	***320***	*84*	***280***
Dimethylphthalate	**N/A**	**N/A**	-	***320***	***290***	***280***
2,6-Dinotrotoluene	**N/A**	**N/A**	-	***320***	***290***	***280***
Acenaphthene	**N/A**	**N/A**	-	***320***	***290***	***280***
3-Nitroaniline	**N/A**	**N/A**	-	***630***	***590***	***570***
2,4-Dinitrophenol	**N/A**	**N/A**	-	***630***	***590***	***570***
Dibenzofuran	**N/A**	**N/A**	-	***320***	***290***	***280***
2,4-Dinitrotoluene	**N/A**	**N/A**	-	***320***	***290***	***280***
4-Nitrophenol	**N/A**	**N/A**	-	***630***	***590***	***570***
Fluorene	**2500**	**2500000**	-	***320***	***290***	***280***
4-Chlorphenyl-phenylether	**N/A**	**N/A**	-	***320***	***290***	***280***
Diethylphthalate	**N/A**	**N/A**	-	***320***	***290***	***280***
4-Nitroaniline	**N/A**	**N/A**	-	***630***	***590***	***570***
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	-	***630***	***590***	***570***
n-Nitrosodiphenylamine	**N/A**	**N/A**	-	***320***	***290***	***280***
4-Bromphenyl-phenylether	**N/A**	**N/A**	-	***320***	***290***	***280***
Hexachlorobenzene	**3.6**	**3600**	-	***320***	***290***	***280***
Pentachlorophenol	**48**	**48000**	-	***630***	***590***	***570***
Phenanthrene	**2500**	**2500000**	-	380	*150*	***280***
Anthracene	**2500**	**2500000**	-	*100*	***290***	***280***
Di-n-butyl phthalate	**2500**	**2500000**	-	***320***	***290***	***280***
Fluoranthene	**2500**	**2500000**	-	650	490	***280***
Pyrene	**2500**	**2500000**	-	640	480	***280***
Butyl benzyl phthalate	**2500**	**2500000**	-	***320***	***290***	***280***
3,3'-Dichlorobenzidine	**N/A**	**N/A**	-	***320***	***290***	***280***
Carbazole	**N/A**	**N/A**	-	*59*	***290***	***280***
Benz[a]anthracene	**7.8**	**7800**	-	*290*	*230*	***280***
Chrysene	**N/A**	**N/A**	-	*310*	*280*	***280***
bis(2-ethyl hexyl)phthalate	**410**	**410000**	-	***320***	***290***	***280***
Di-n-octyl phthalate	**2500**	**2500000**	-	***320***	***290***	***280***
Benzo[b]fluoranthene	**7.8**	**7800**	-	*280*	*280*	***280***
Benzo[k]fluoranthene	**78**	**78000**	-	*220*	*150*	***280***
Benzo[a]pyrene	**1**	**1000**	-	*260*	*220*	***280***
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	-	*140*	*130*	***280***
Dibenz[a,h]anthracene	**N/A**	**N/A**	-	***320***	***290***	***280***
Benzo[g,h,l]perylene	**N/A**	**N/A**	-	*140*	*140*	***280***

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Table 3-21
Area 3 Confirmatory Data Sumary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A3-4SS 03/13/01	A3-4ESW 03/13/01	A3-4ESW-A 03/21/01	A3-5SS 03/13/01
bis(2 Chloroethyl)ether	5.2	5200	330	280	260	300
Phenol	2500	2500000	330	280	260	300
2-Chlorophenol	2500	2500000	330	280	260	300
1,3-Dichlorobenzene	1000	1000000	330	280	260	300
1,4-Dichlorobenzene	240	240000	330	280	260	300
1,2-Dichlorobenzene	1000	1000000	330	280	260	300
Benzyl alcohol	N/A	N/A	3300	2800	260	3000
bis(2-chloroisopropyl)ether	82	82000	330	280	260	300
2-Methylphenol	N/A	N/A	330	280	260	300
Hexachloroethane	410	410000	330	280	260	300
N-Nitroso-di-n-propylamine	N/A	N/A	330	280	260	300
4-Methylphenol	N/A	N/A	330	280	260	300
Nitrobenzene	N/A	N/A	330	280	260	300
Isophorone	N/A	N/A	330	280	260	300
2-Nitrophenol	N/A	N/A	330	280	260	300
2,4-Dimethylphenol	N/A	N/A	330	280	260	300
Benzoic acid	N/A	N/A	670	560	260	590
bis(2-chloroethoxy)methane	N/A	N/A	330	280	260	300
2,4-Dichlorophenol	2500	2500000	330	280	260	300
1,2,4-Trichlorobenzene	N/A	N/A	330	280	260	300
Napthalene	2500	2500000	330	280	260	300
4-Chloroaniline	N/A	N/A	330	280	260	300
Hexachlorobutadiene	N/A	N/A	330	280	260	300
4-Chloro-3-methylphenol	N/A	N/A	330	280	260	300
2-Methylnaphthalene	N/A	N/A	330	280	260	300
Hexachlorocyclopentadiene	N/A	N/A	330	280	260	300
2,4,6-Trichlorophenol	N/A	N/A	330	280	260	300
2,4,5-Trichlorophenol	N/A	N/A	670	560	510	590
2-Chloronapthalene	N/A	N/A	330	280	260	300
2-Nitroaniline	N/A	N/A	670	560	510	590
Acenaphthylene	2500	2500000	190	280	260	190
Dimethylphthalate	N/A	N/A	330	280	260	300
2,6-Dinotrotoluene	N/A	N/A	330	280	260	300
Acenaphthene	N/A	N/A	330	280	260	90
3-Nitroaniline	N/A	N/A	670	560	510	590
2,4-Dinitrophenol	N/A	N/A	670	560	510	590
Dibenzofuran	N/A	N/A	330	280	260	300
2,4-Dinitrotoluene	N/A	N/A	330	280	260	300
4-Nitrophenol	N/A	N/A	670	560	510	590
Fluorene	2500	2500000	330	59	260	98
4-Chlorphenyl-phenylether	N/A	N/A	330	280	260	300
Diethylphthalate	N/A	N/A	330	280	260	300
4-Nitroaniline	N/A	N/A	670	560	510	590
4,6-Dinitro-2-methylphenol	N/A	N/A	670	560	510	590
n-Nitrosodiphenylamine	N/A	N/A	330	280	260	300
4-Bromphenyl-phenylether	N/A	N/A	330	280	260	300
Hexachlorobenzene	3.6	3600	330	280	260	300
Pentachlorophenol	48	48000	670	560	510	590
Phenanthrene	2500	2500000	930	1100	260	1500
Anthracene	2500	2500000	170	310	260	460
Di-n-butyl phthalate	2500	2500000	330	280	260	300
Fluoranthene	2500	2500000	2000	2700	260	6100
Pyrene	2500	2500000	1600	2600	260	5800
Butyl benzyl phthalate	2500	2500000	330	280	260	300
3,3'-Dichlorobenzidine	N/A	N/A	330	280	260	300
Carbazole	N/A	N/A	160	170	260	170
Benz[a]anthracene	7.8	7800	610	1100	260	2800
Chrysene	N/A	N/A	980	1300	260	3000
bis(2-ethyl hexyl)phthalate	410	410000	330	280	260	300
Di-n-octyl phthalate	2500	2500000	330	280	260	300
Benzo[b]fluoranthene	7.8	7800	820	1200	260	3200
Benzo[k]fluoranthene	78	78000	540	560	260	1500
Benzo[a]pyrene	1	1000	620	960	260	2600
Indeno[1,2,3-cd]pyrene	N/A	N/A	360	490	260	1100
Dibenz[a,h]anthracene	N/A	N/A	95	140	260	290
Benzo[g,h,l]perylene	N/A	N/A	350	480	260	1000

Notes: * Represents a sample ID labelling error on the original COC.
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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb).

Table 3-21
Area 3 Confirmatory Data Sumary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A3-5ESW 03/13/01	A3-5ESW-A 03/21/01	A3-6SS 03/13/01	A3-6SSW 03/13/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	***310***	-	***320***	***350***
Phenol	**2500**	**2500000**	***310***	-	***320***	***350***
2-Chlorophenol	**2500**	**2500000**	***310***	-	***320***	***350***
1,3-Dichlorobenzene	**1000**	**1000000**	***310***	-	***320***	***350***
1,4-Dichlorobenzene	**240**	**240000**	***310***	-	***320***	***350***
1,2-Dichlorobenzene	**1000**	**1000000**	***310***	-	***320***	***350***
Benzyl alcohol	**N/A**	**N/A**	***3100***	-	***3200***	***3500***
bis(2-chloroisopropyl)ether	**82**	**82000**	***310***	-	***320***	***350***
2-Methylphenol	**N/A**	**N/A**	***310***	-	***320***	***350***
Hexachloroethane	**410**	**410000**	***310***	-	***320***	***350***
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	***310***	-	***320***	***350***
4-Methylphenol	**N/A**	**N/A**	***310***	-	***320***	***350***
Nitrobenzene	**N/A**	**N/A**	***310***	-	***320***	***350***
Isophorone	**N/A**	**N/A**	***310***	-	***320***	***350***
2-Nitrophenol	**N/A**	**N/A**	***310***	-	***320***	***350***
2,4-Dimethylphenol	**N/A**	**N/A**	***310***	-	***320***	***350***
Benzoic acid	**N/A**	**N/A**	***630***	-	*71*	***690***
bis(2-chloroethoxy)methane	**N/A**	**N/A**	***310***	-	***320***	***350***
2,4-Dichlorophenol	**2500**	**2500000**	***310***	-	***320***	***350***
1,2,4-Trichlorobenzene	**N/A**	**N/A**	***310***	-	***320***	***350***
Napthalene	**2500**	**2500000**	***310***	-	***320***	***350***
4-Chloroaniline	**N/A**	**N/A**	***310***	-	***320***	***350***
Hexachlorobutadiene	**N/A**	**N/A**	***310***	-	***320***	***350***
4-Chloro-3-methylphenol	**N/A**	**N/A**	***310***	-	***320***	***350***
2-Methylnaphthalene	**N/A**	**N/A**	***310***	-	***320***	***350***
Hexachlorocyclopentadiene	**N/A**	**N/A**	***310***	-	***320***	***350***
2,4,6-Trichlorophenol	**N/A**	**N/A**	***310***	-	***320***	***350***
2,4,5-Trichlorophenol	**N/A**	**N/A**	***630***	-	***640***	***690***
2-Chloronapthalene	**N/A**	**N/A**	***310***	-	***320***	***350***
2-Nitroaniline	**N/A**	**N/A**	***630***	-	***640***	***690***
Acenaphthylene	**2500**	**2500000**	***310***	-	***320***	***350***
Dimethylphthalate	**N/A**	**N/A**	***310***	-	***320***	***350***
2,6-Dinotrotoluene	**N/A**	**N/A**	***310***	-	***320***	***350***
Acenaphthene	**N/A**	**N/A**	***310***	-	***320***	***350***
3-Nitroaniline	**N/A**	**N/A**	***630***	-	***640***	***690***
2,4-Dinitrophenol	**N/A**	**N/A**	***630***	-	***640***	***690***
Dibenzofuran	**N/A**	**N/A**	***310***	-	***320***	***350***
2,4-Dinitrotoluene	**N/A**	**N/A**	***310***	-	***320***	***350***
4-Nitrophenol	**N/A**	**N/A**	***630***	-	***640***	***690***
Fluorene	**2500**	**2500000**	***310***	-	***320***	***350***
4-Chlorphenyl-phenylether	**N/A**	**N/A**	***310***	-	***320***	***350***
Diethylphthalate	**N/A**	**N/A**	***310***	-	***320***	***350***
4-Nitroaniline	**N/A**	**N/A**	***630***	-	***640***	***690***
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	***630***	-	***640***	***690***
n-Nitrosodiphenylamine	**N/A**	**N/A**	***310***	-	***320***	***350***
4-Bromphenyl-phenylether	**N/A**	**N/A**	***310***	-	***320***	***350***
Hexachlorobenzene	**3.6**	**3600**	***310***	-	***320***	***350***
Pentachlorophenol	**48**	**48000**	***630***	-	***640***	***690***
Phenanthrene	**2500**	**2500000**	*63*	-	***320***	***350***
Anthracene	**2500**	**2500000**	***310***	-	***320***	***350***
Di-n-butyl phthalate	**2500**	**2500000**	***310***	-	***320***	***350***
Fluoranthene	**2500**	**2500000**	*180*	-	***320***	*120*
Pyrene	**2500**	**2500000**	*190*	-	***320***	*120*
Butyl benzyl phthalate	**2500**	**2500000**	***310***	-	***320***	***350***
3,3'-Dichlorobenzidine	**N/A**	**N/A**	***310***	-	***320***	***350***
Carbazole	**N/A**	**N/A**	***310***	-	***320***	***350***
Benz[a]anthracene	**7.8**	**7800**	*92*	-	***320***	***350***
Chrysene	**N/A**	**N/A**	*120*	-	***320***	*76*
bis(2-ethyl hexyl)phthalate	**410**	**410000**	***310***	-	***320***	***350***
Di-n-octyl phthalate	**2500**	**2500000**	***310***	-	***320***	***350***
Benzo[b]fluoranthene	**7.8**	**7800**	*140*	-	***320***	*63*
Benzo[k]fluoranthene	**78**	**78000**	*85*	-	***320***	*69*
Benzo[a]pyrene	**1**	**1000**	*120*	-	***320***	***350***
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	*63*	-	***320***	***350***
Dibenz[a,h]anthracene	**N/A**	**N/A**	***310***	-	***320***	***350***
Benzo[g,h,l]perylene	**N/A**	**N/A**	*67*	-	***320***	***350***

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Table 3-21
Area 3 Confirmatory Data Sumary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A3-6SSW-A 03/21/01	A3-7SS 03/13/01	A3-7WSW 03/13/01	A3-7WSW-A 03/21/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	-	***290***	***580***	***260***
Phenol	**2500**	**2500000**	-	***290***	***580***	***260***
2-Chlorophenol	**2500**	**2500000**	-	***290***	***580***	***260***
1,3-Dichlorobenzene	**1000**	**1000000**	-	***290***	***580***	***260***
1,4-Dichlorobenzene	**240**	**240000**	-	***290***	***580***	***260***
1,2-Dichlorobenzene	**1000**	**1000000**	-	***290***	***580***	***260***
Benzyl alcohol	**N/A**	**N/A**	-	***2900***	***5700***	***260***
bis(2-chloroisopropyl)ether	**82**	**82000**	-	***290***	***580***	***260***
2-Methylphenol	**N/A**	**N/A**	-	***290***	***580***	***260***
Hexachloroethane	**410**	**410000**	-	***290***	***580***	***260***
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	-	***290***	***580***	***260***
4-Methylphenol	**N/A**	**N/A**	-	***290***	***580***	***260***
Nitrobenzene	**N/A**	**N/A**	-	***290***	***580***	***260***
Isophorone	**N/A**	**N/A**	-	***290***	***580***	***260***
2-Nitrophenol	**N/A**	**N/A**	-	***290***	***580***	***260***
2,4-Dimethylphenol	**N/A**	**N/A**	-	***290***	***580***	***260***
Benzoic acid	**N/A**	**N/A**	-	***570***	***1200***	***260***
bis(2-chloroethoxy)methane	**N/A**	**N/A**	-	***290***	***580***	***260***
2,4-Dichlorophenol	**2500**	**2500000**	-	***290***	***580***	***260***
1,2,4-Trichlorobenzene	**N/A**	**N/A**	-	***290***	***580***	***260***
Napthalene	**2500**	**2500000**	-	***290***	*290*	***260***
4-Chloroaniline	**N/A**	**N/A**	-	***290***	***580***	***260***
Hexachlorobutadiene	**N/A**	**N/A**	-	***290***	***580***	***260***
4-Chloro-3-methylphenol	**N/A**	**N/A**	-	***290***	***580***	***260***
2-Methylnaphthalene	**N/A**	**N/A**	-	***290***	*280*	***260***
Hexachlorocyclopentadiene	**N/A**	**N/A**	-	***290***	***580***	***260***
2,4,6-Trichlorophenol	**N/A**	**N/A**	-	***290***	***580***	***260***
2,4,5-Trichlorophenol	**N/A**	**N/A**	-	***570***	***1200***	***510***
2-Chloronapthalene	**N/A**	**N/A**	-	***290***	***580***	***260***
2-Nitroaniline	**N/A**	**N/A**	-	***570***	***1200***	***510***
Acenaphthylene	**2500**	**2500000**	-	*170*	1700	***260***
Dimethylphthalate	**N/A**	**N/A**	-	***290***	***580***	***260***
2,6-Dinotrotoluene	**N/A**	**N/A**	-	***290***	***580***	***260***
Acenaphthene	**N/A**	**N/A**	-	***290***	*500*	***260***
3-Nitroaniline	**N/A**	**N/A**	-	***570***	***1200***	***510***
2,4-Dinitrophenol	**N/A**	**N/A**	-	***570***	***1200***	***510***
Dibenzofuran	**N/A**	**N/A**	-	***290***	*180*	***260***
2,4-Dinitrotoluene	**N/A**	**N/A**	-	***290***	***580***	***260***
4-Nitrophenol	**N/A**	**N/A**	-	***570***	***1200***	***510***
Fluorene	**2500**	**2500000**	-	***290***	*560*	***260***
4-Chlorphenyl-phenylether	**N/A**	**N/A**	-	***290***	***580***	***260***
Diethylphthalate	**N/A**	**N/A**	-	***290***	***580***	***260***
4-Nitroaniline	**N/A**	**N/A**	-	***570***	***1200***	***510***
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	-	***570***	***1200***	***510***
n-Nitrosodiphenylamine	**N/A**	**N/A**	-	***290***	***580***	***260***
4-Bromphenyl-phenylether	**N/A**	**N/A**	-	***290***	***580***	***260***
Hexachlorobenzene	**3.6**	**3600**	-	***290***	***580***	***260***
Pentachlorophenol	**48**	**48000**	-	***570***	***1200***	***510***
Phenanthrene	**2500**	**2500000**	-	350	4600	***260***
Anthracene	**2500**	**2500000**	-	*130*	1800	***260***
Di-n-butyl phthalate	**2500**	**2500000**	-	***290***	***580***	***260***
Fluoranthene	**2500**	**2500000**	-	900	12000	***260***
Pyrene	**2500**	**2500000**	-	980	12000	***260***
Butyl benzyl phthalate	**2500**	**2500000**	-	***290***	***580***	***260***
3,3'-Dichlorobenzidine	**N/A**	**N/A**	-	***290***	***580***	***260***
Carbazole	**N/A**	**N/A**	-	52	*510*	***260***
Benz[a]anthracene	**7.8**	**7800**	-	440	5900	***260***
Chrysene	**N/A**	**N/A**	-	520	5900	***260***
bis(2-ethyl hexyl)phthalate	**410**	**410000**	-	***290***	***580***	***260***
Di-n-octyl phthalate	**2500**	**2500000**	-	***290***	***580***	***260***
Benzo[b]fluoranthene	**7.8**	**7800**	-	570	5800	***260***
Benzo[k]fluoranthene	**78**	**78000**	-	350	3300	***260***
Benzo[a]pyrene	**1**	**1000**	-	460	4500	***260***
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	-	*190*	1500	***260***
Dibenz[a,h]anthracene	**N/A**	**N/A**	-	*61*	*460*	***260***
Benzo[g,h,l]perylene	**N/A**	**N/A**	-	*170*	1200	***260***

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Table 3-21
Area 3 Confirmatory Data Sumary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A3-8SS 03/13/01	A3-8WSW 03/13/01	A3-8 WSW-A 03/21/01	A3-9SS 03/13/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	***290***	***280***	-	***300***
Phenol	**2500**	**2500000**	***290***	***280***	-	***300***
2-Chlorophenol	**2500**	**2500000**	***290***	***280***	-	***300***
1,3-Dichlorobenzene	**1000**	**1000000**	***290***	***280***	-	***300***
1,4-Dichlorobenzene	**240**	**240000**	***290***	***280***	-	***300***
1,2-Dichlorobenzene	**1000**	**1000000**	***290***	***280***	-	***300***
Benzyl alcohol	**N/A**	**N/A**	***2900***	***2800***	-	***3000***
bis(2-chloroisopropyl)ether	**82**	**82000**	***290***	***280***	-	***300***
2-Methylphenol	**N/A**	**N/A**	***290***	***280***	-	***300***
Hexachloroethane	**410**	**410000**	***290***	***280***	-	***300***
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	***290***	***280***	-	***300***
4-Methylphenol	**N/A**	**N/A**	***290***	***280***	-	***300***
Nitrobenzene	**N/A**	**N/A**	***290***	***280***	-	***300***
Isophorone	**N/A**	**N/A**	***290***	***280***	-	***300***
2-Nitrophenol	**N/A**	**N/A**	***290***	***280***	-	***300***
2,4-Dimethylphenol	**N/A**	**N/A**	***290***	***280***	-	***300***
Benzoic acid	**N/A**	**N/A**	***580***	***560***	-	***590***
bis(2-chloroethoxy)methane	**N/A**	**N/A**	***290***	***280***	-	***300***
2,4-Dichlorophenol	**2500**	**2500000**	***290***	***280***	-	***300***
1,2,4-Trichlorobenzene	**N/A**	**N/A**	***290***	***280***	-	***300***
Napthalene	**2500**	**2500000**	***290***	***280***	-	***300***
4-Chloroaniline	**N/A**	**N/A**	***290***	***280***	-	***300***
Hexachlorobutadiene	**N/A**	**N/A**	***290***	***280***	-	***300***
4-Chloro-3-methylphenol	**N/A**	**N/A**	***290***	***280***	-	***300***
2-Methylnaphthalene	**N/A**	**N/A**	***290***	***280***	-	***300***
Hexachlorocyclopentadiene	**N/A**	**N/A**	***290***	***280***	-	***300***
2,4,6-Trichlorophenol	**N/A**	**N/A**	***290***	***280***	-	***300***
2,4,5-Trichlorophenol	**N/A**	**N/A**	***580***	***560***	-	***590***
2-Chloronapthalene	**N/A**	**N/A**	***290***	***280***	-	***300***
2-Nitroaniline	**N/A**	**N/A**	***580***	***560***	-	***590***
Acenaphthylene	**2500**	**2500000**	160	*110*	-	***300***
Dimethylphthalate	**N/A**	**N/A**	***290***	***280***	-	***300***
2,6-Dinotrotoluene	**N/A**	**N/A**	***290***	***280***	-	***300***
Acenaphthene	**N/A**	**N/A**	***290***	***280***	-	***300***
3-Nitroaniline	**N/A**	**N/A**	***580***	***560***	-	***590***
2,4-Dinitrophenol	**N/A**	**N/A**	***580***	***560***	-	***590***
Dibenzofuran	**N/A**	**N/A**	***290***	***280***	-	***300***
2,4-Dinitrotoluene	**N/A**	**N/A**	***290***	***280***	-	***300***
4-Nitrophenol	**N/A**	**N/A**	***580***	***560***	-	***590***
Fluorene	**2500**	**2500000**	***290***	***280***	-	***300***
4-Chlorphenyl-phenylether	**N/A**	**N/A**	***290***	***280***	-	***300***
Diethylphthalate	**N/A**	**N/A**	***290***	***280***	-	***300***
4-Nitroaniline	**N/A**	**N/A**	***580***	***560***	-	***590***
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	***580***	***560***	-	***590***
n-Nitrosodiphenylamine	**N/A**	**N/A**	***290***	***280***	-	***300***
4-Bromphenyl-phenylether	**N/A**	**N/A**	***290***	***280***	-	***300***
Hexachlorobenzene	**3.6**	**3600**	***290***	***280***	-	***300***
Pentachlorophenol	**48**	**48000**	***580***	***560***	-	***590***
Phenanthrene	**2500**	**2500000**	480	460	-	***300***
Anthracene	**2500**	**2500000**	*160*	*120*	-	***300***
Di-n-butyl phthalate	**2500**	**2500000**	***290***	***280***	-	***300***
Fluoranthene	**2500**	**2500000**	1100	1900	-	***300***
Pyrene	**2500**	**2500000**	1100	1500	-	***300***
Butyl benzyl phthalate	**2500**	**2500000**	***290***	***280***	-	***300***
3,3'-Dichlorobenzidine	**N/A**	**N/A**	***290***	***280***	-	***300***
Carbazole	**N/A**	**N/A**	*63*	*140*	-	***300***
Benz[a]anthracene	**7.8**	**7800**	520	320	-	***300***
Chrysene	**N/A**	**N/A**	610	830	-	***300***
bis(2-ethyl hexyl)phthalate	**410**	**410000**	***290***	***280***	-	***300***
Di-n-octyl phthalate	**2500**	**2500000**	***290***	***280***	-	***300***
Benzo[b]fluoranthene	**7.8**	**7800**	690	540	-	***300***
Benzo[k]fluoranthene	**78**	**78000**	460	390	-	***300***
Benzo[a]pyrene	**1**	**1000**	530	300	-	***300***
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	*170*	*190*	-	***300***
Dibenz[a,h]anthracene	**N/A**	**N/A**	*56*	***280***	-	***300***
Benzo[g,h,l]perylene	**N/A**	**N/A**	*150*	*200*	-	***300***

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Table 3-21
Area 3 Confirmatory Data Sumary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A3-9WSW 03/13/01	A3-9WSW-A 03/21/01	A3-10SS 03/13/01	A3-10WSW 03/13/01
bis(2 Chloroethyl)ether	5.2	5200	300	-	340	290
Phenol	2500	2500000	300	-	340	290
2-Chlorophenol	2500	2500000	300	-	340	290
1,3-Dichlorobenzene	1000	1000000	300	-	340	290
1,4-Dichlorobenzene	240	240000	300	-	340	290
1,2-Dichlorobenzene	1000	1000000	300	-	340	290
Benzyl alcohol	N/A	N/A	3000	-	3400	2900
bis(2-chloroisopropyl)ether	82	82000	300	-	340	290
2-Methylphenol	N/A	N/A	300	-	340	290
Hexachloroethane	410	410000	300	-	340	290
N-Nitroso-di-n-propylamine	N/A	N/A	300	-	340	290
4-Methylphenol	N/A	N/A	300	-	340	290
Nitrobenzene	N/A	N/A	300	-	340	290
Isophorone	N/A	N/A	300	-	340	290
2-Nitrophenol	N/A	N/A	300	-	340	290
2,4-Dimethylphenol	N/A	N/A	300	-	340	290
Benzoic acid	N/A	N/A	610	-	680	570
bis(2-chloroethoxy)methane	N/A	N/A	300	-	340	290
2,4-Dichlorophenol	2500	2500000	300	-	340	290
1,2,4-Trichlorobenzene	N/A	N/A	300	-	340	290
Napthalene	2500	2500000	300	-	340	680
4-Chloroaniline	N/A	N/A	300	-	340	290
Hexachlorobutadiene	N/A	N/A	300	-	340	290
4-Chloro-3-methylphenol	N/A	N/A	300	-	340	290
2-Methylnaphthalene	N/A	N/A	300	-	340	160
Hexachlorocyclopentadiene	N/A	N/A	300	-	340	290
2,4,6-Trichlorophenol	N/A	N/A	300	-	340	290
2,4,5-Trichlorophenol	N/A	N/A	610	-	680	570
2-Chloronapthalene	N/A	N/A	300	-	340	290
2-Nitroaniline	N/A	N/A	610	-	680	570
Acenaphthylene	2500	2500000	300	-	340	120
Dimethylphthalate	N/A	N/A	300	-	340	290
2,6-Dinotrotoluene	N/A	N/A	300	-	340	290
Acenaphthene	N/A	N/A	300	-	340	480
3-Nitroaniline	N/A	N/A	610	-	680	570
2,4-Dinitrophenol	N/A	N/A	610	-	680	570
Dibenzofuran	N/A	N/A	300	-	340	290
2,4-Dinitrotoluene	N/A	N/A	300	-	340	290
4-Nitrophenol	N/A	N/A	610	-	680	570
Fluorene	2500	2500000	300	-	340	460
4-Chlorphenyl-phenylether	N/A	N/A	300	-	340	290
Diethylphthalate	N/A	N/A	300	-	340	290
4-Nitroaniline	N/A	N/A	610	-	680	570
4,6-Dinitro-2-methylphenol	N/A	N/A	610	-	680	570
n-Nitrosodiphenylamine	N/A	N/A	300	-	340	290
4-Bromphenyl-phenylether	N/A	N/A	300	-	340	290
Hexachlorobenzene	3.6	3600	300	-	340	290
Pentachlorophenol	48	48000	610	-	680	570
Phenanthrene	2500	2500000	74	-	340	2700
Anthracene	2500	2500000	300	-	340	720
Di-n-butyl phthalate	2500	2500000	300	-	340	290
Fluoranthene	2500	2500000	220	-	340	2900
Pyrene	2500	2500000	230	-	340	2600
Butyl benzyl phthalate	2500	2500000	300	-	340	290
3,3'-Dichlorobenzidine	N/A	N/A	300	-	340	290
Carbazole	N/A	N/A	300	-	340	460
Benz[a]anthracene	7.8	7800	110	-	340	1300
Chrysene	N/A	N/A	150	-	340	1300
bis(2-ethyl hexyl)phthalate	410	410000	300	-	340	290
Di-n-octyl phthalate	2500	2500000	300	-	340	290
Benzo[b]fluoranthene	7.8	7800	140	-	340	1200
Benzo[k]fluoranthene	78	78000	100	-	340	810
Benzo[a]pyrene	1	1000	100	-	340	1100
Indeno[1,2,3-cd]pyrene	N/A	N/A	66	-	340	480
Dibenz[a,h]anthracene	N/A	N/A	300	-	340	140
Benzo[g,h,l]perylene	N/A	N/A	65	-	340	400

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All data presented in ug/kg (ppb).

Table 3-21
Area 3 Confirmatory Data Sumary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A3-10WSW-A 03/21/01	A3-11SS 03/13/01	A3-11SSW 03/13/01	A3-11SSW-A 03/21/01
bis(2 Chloroethyl)ether	5.2	5200	250	360	330	-
Phenol	2500	2500000	250	360	330	-
2-Chlorophenol	2500	2500000	250	360	330	-
1,3-Dichlorobenzene	1000	1000000	250	360	330	-
1,4-Dichlorobenzene	240	240000	250	360	330	-
1,2-Dichlorobenzene	1000	1000000	250	360	330	-
Benzyl alcohol	N/A	N/A	250	3600	3300	-
bis(2-chloroisopropyl)ether	82	82000	250	360	330	-
2-Methylphenol	N/A	N/A	250	360	330	-
Hexachloroethane	410	410000	250	360	330	-
N-Nitroso-di-n-propylamine	N/A	N/A	250	360	330	-
4-Methylphenol	N/A	N/A	250	360	330	-
Nitrobenzene	N/A	N/A	250	360	330	-
Isophorone	N/A	N/A	250	360	330	-
2-Nitrophenol	N/A	N/A	250	360	330	-
2,4-Dimethylphenol	N/A	N/A	250	360	330	-
Benzoic acid	N/A	N/A	250	100	660	-
bis(2-chloroethoxy)methane	N/A	N/A	250	360	330	-
2,4-Dichlorophenol	2500	2500000	250	360	330	-
1,2,4-Trichlorobenzene	N/A	N/A	250	360	330	-
Napthalene	2500	2500000	250	360	270	-
4-Chloroaniline	N/A	N/A	250	360	330	-
Hexachlorobutadiene	N/A	N/A	250	360	330	-
4-Chloro-3-methylphenol	N/A	N/A	250	360	330	-
2-Methylnaphthalene	N/A	N/A	250	360	69	-
Hexachlorocyclopentadiene	N/A	N/A	250	360	330	-
2,4,6-Trichlorophenol	N/A	N/A	250	360	330	-
2,4,5-Trichlorophenol	N/A	N/A	510	730	660	-
2-Chloronapthalene	N/A	N/A	250	360	330	-
2-Nitroaniline	N/A	N/A	510	730	660	-
Acenaphthylene	2500	2500000	250	360	330	-
Dimethylphthalate	N/A	N/A	250	360	330	-
2,6-Dinotrotoluene	N/A	N/A	250	360	330	-
Acenaphthene	N/A	N/A	250	360	210	-
3-Nitroaniline	N/A	N/A	510	730	660	-
2,4-Dinitrophenol	N/A	N/A	510	730	660	-
Dibenzofuran	N/A	N/A	250	360	150	-
2,4-Dinitrotoluene	N/A	N/A	250	360	330	-
4-Nitrophenol	N/A	N/A	510	730	660	-
Fluorene	2500	2500000	250	360	220	-
4-Chlorphenyl-phenylether	N/A	N/A	250	360	330	-
Diethylphthalate	N/A	N/A	250	360	330	-
4-Nitroaniline	N/A	N/A	510	730	660	-
4,6-Dinitro-2-methylphenol	N/A	N/A	510	730	660	-
n-Nitrosodiphenylamine	N/A	N/A	250	360	330	-
4-Bromphenyl-phenylether	N/A	N/A	250	360	330	-
Hexachlorobenzene	3.6	3600	250	360	330	-
Pentachlorophenol	48	48000	510	730	660	-
Phenanthrene	2500	2500000	250	89	1300	-
Anthracene	2500	2500000	250	360	340	-
Di-n-butyl phthalate	2500	2500000	250	360	330	-
Fluoranthene	2500	2500000	250	110	1300	-
Pyrene	2500	2500000	250	94	1000	-
Butyl benzyl phthalate	2500	2500000	250	360	330	-
3,3'-Dichlorobenzidine	N/A	N/A	250	360	330	-
Carbazole	N/A	N/A	250	360	200	-
Benz[a]anthracene	7.8	7800	250	360	470	-
Chrysene	N/A	N/A	250	360	480	-
bis(2-ethyl hexyl)phthalate	410	410000	250	360	330	-
Di-n-octyl phthalate	2500	2500000	250	360	330	-
Benzo[b]fluoranthene	7.8	7800	250	360	430	-
Benzo[k]fluoranthene	78	78000	250	360	370	-
Benzo[a]pyrene	1	1000	250	360	420	-
Indeno[1,2,3-cd]pyrene	N/A	N/A	250	360	150	-
Dibenz[a,h]anthracene	N/A	N/A	250	360	330	-
Benzo[g,h,l]perylene	N/A	N/A	250	360	130	-

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Table 3-21
Area 3 Confirmatory Data Sumary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	A3-11SSW-B 03/26/01
bis(2 Chloroethyl)ether	**5.2**	**5200**	-
Phenol	**2500**	**2500000**	-
2-Chlorophenol	**2500**	**2500000**	-
1,3-Dichlorobenzene	**1000**	**1000000**	-
1,4-Dichlorobenzene	**240**	**240000**	-
1,2-Dichlorobenzene	**1000**	**1000000**	-
Benzyl alcohol	**N/A**	**N/A**	-
bis(2-chloroisopropyl)ether	**82**	**82000**	-
2-Methylphenol	**N/A**	**N/A**	-
Hexachloroethane	**410**	**410000**	-
N-Nitroso-di-n-propylamine	**N/A**	**N/A**	-
4-Methylphenol	**N/A**	**N/A**	-
Nitrobenzene	**N/A**	**N/A**	-
Isophorone	**N/A**	**N/A**	-
2-Nitrophenol	**N/A**	**N/A**	-
2,4-Dimethylphenol	**N/A**	**N/A**	-
Benzoic acid	**N/A**	**N/A**	-
bis(2-chloroethoxy)methane	**N/A**	**N/A**	-
2,4-Dichlorophenol	**2500**	**2500000**	-
1,2,4-Trichlorobenzene	**N/A**	**N/A**	-
Napthalene	**2500**	**2500000**	-
4-Chloroaniline	**N/A**	**N/A**	-
Hexachlorobutadiene	**N/A**	**N/A**	-
4-Chloro-3-methylphenol	**N/A**	**N/A**	-
2-Methylnaphthalene	**N/A**	**N/A**	-
Hexachlorocyclopentadiene	**N/A**	**N/A**	-
2,4,6-Trichlorophenol	**N/A**	**N/A**	-
2,4,5-Trichlorophenol	**N/A**	**N/A**	-
2-Chloronapthalene	**N/A**	**N/A**	-
2-Nitroaniline	**N/A**	**N/A**	-
Acenaphthylene	**2500**	**2500000**	-
Dimethylphthalate	**N/A**	**N/A**	-
2,6-Dinotrotoluene	**N/A**	**N/A**	-
Acenaphthene	**N/A**	**N/A**	-
3-Nitroaniline	**N/A**	**N/A**	-
2,4-Dinitrophenol	**N/A**	**N/A**	-
Dibenzofuran	**N/A**	**N/A**	-
2,4-Dinitrotoluene	**N/A**	**N/A**	-
4-Nitrophenol	**N/A**	**N/A**	-
Fluorene	**2500**	**2500000**	-
4-Chlorphenyl-phenylether	**N/A**	**N/A**	-
Diethylphthalate	**N/A**	**N/A**	-
4-Nitroaniline	**N/A**	**N/A**	-
4,6-Dinitro-2-methylphenol	**N/A**	**N/A**	-
n-Nitrosodiphenylamine	**N/A**	**N/A**	-
4-Bromphenyl-phenylether	**N/A**	**N/A**	-
Hexachlorobenzene	**3.6**	**3600**	-
Pentachlorophenol	**48**	**48000**	-
Phenanthrene	**2500**	**2500000**	-
Anthracene	**2500**	**2500000**	-
Di-n-butyl phthalate	**2500**	**2500000**	-
Fluoranthene	**2500**	**2500000**	-
Pyrene	**2500**	**2500000**	-
Butyl benzyl phthalate	**2500**	**2500000**	-
3,3'-Dichlorobenzidine	**N/A**	**N/A**	-
Carbazole	**N/A**	**N/A**	-
Benz[a]anthracene	**7.8**	**7800**	-
Chrysene	**N/A**	**N/A**	-
bis(2-ethyl hexyl)phthalate	**410**	**410000**	-
Di-n-octyl phthalate	**2500**	**2500000**	-
Benzo[b]fluoranthene	**7.8**	**7800**	-
Benzo[k]fluoranthene	**78**	**78000**	-
Benzo[a]pyrene	**1**	**1000**	-
Indeno[1,2,3-cd]pyrene	**N/A**	**N/A**	-
Dibenz[a,h]anthracene	**N/A**	**N/A**	-
Benzo[g,h,I]perylene	**N/A**	**N/A**	-

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All data presented in ug/kg (ppb).

Table3-22
Area 3 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A3-1SS 03/13/01	*A3-1NSW 03/13/01	A3-2SS 03/13/01	A3-2ESW 03/13/01
Dichlorodifluoromethane	-	-	***2.4***	***2.2***	***2***	***2.1***
Chloromethane	-	-	***2.4***	***2.2***	***2***	***2.1***
Vinyl chloride	3	3000	***2.4***	***2.2***	***2***	***2.1***
Bromomethane	-	-	***2.4***	***2.2***	***2***	***2.1***
Chloroethane	-	-	***2.4***	***2.2***	***2***	***2.1***
Trichlorofluoromethane	-	-	***2.4***	***2.2***	***2***	***2.1***
Acetone	1000	1000000	24 B	21 B	20 B	13 B
1,1-Dichloroethene	9.5	95000	***2.4***	***2.2***	***2***	***2.1***
Carbon disulfide	-	-	***2.4***	***2.2***	***2***	***2.1***
Methylene chloride	760	760000	3.4 JB	3.5 JB	3.2 JB	3.5 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
trans-1,2-Dichloroethene	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
1,1-Dichloroethane	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
Vinyl acetate	-	-	***2.4***	***2.2***	***2***	***2.1***
2-Butanone (MEK)	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
cis-1,2-Dichloroethene	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
2,2-Dichloropropanone	-	-	***2.4***	***2.2***	***2***	***2.1***
Chloroform	940	940000	***2.4***	***2.2***	***2***	***2.1***
1,1,1-Trichloroethane	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
1,1-Dichloropropene	-	-	***2.4***	***2.2***	***2***	***2.1***
Carbon tetrachloride	44	44000	***2.4***	***2.2***	***2***	***2.1***
Benzene	200	200000	***2.4***	***2.2***	***2***	***2.1***
1,2-Dichloroethane	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
Trichloroethene	520	520000	***2.4***	***2.2***	***2***	***2.1***
1,2-Dichloropropane	84	84000	***2.4***	***2.2***	***2***	***2.1***
Dibromomethane	-	-	***2.4***	***2.2***	***2***	***2.1***
Bromodichloromethane	-	-	***2.4***	***2.2***	***2***	***2.1***
2-Chloroethylvinyl ether	-	-	***2.4***	***2.2***	***2***	***2.1***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
cis-1,3-Dichloropropene	32	32000	***2.4***	***2.2***	***2***	***2.1***
Toluene	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
trans-1,3-Dichlororopene	32	32000	***2.4***	***2.2***	***2***	***2.1***
1,1,2-Trichloroethane	100	100000	***2.4***	***2.2***	***2***	***2.1***
2-Hexanone	-	-	***2.4***	***2.2***	***2***	***2.1***
Tetrachloroethene	520	520000	***2.4***	***2.2***	***2***	***2.1***
1,3-Dichloropropane	-	-	***2.4***	***2.2***	***2***	***2.1***
Dibromochloromethane	-	-	***2.4***	***2.2***	***2***	***2.1***
1,2-Dibromomethane	-	-	***2.4***	***2.2***	***2***	***2.1***
Chlorobenzene	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
1,1,1,2-Tetrachloroethane	220	220000	***2.4***	***2.2***	***2***	***2.1***
Ethylbenzene	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
p/m-Xylene	1000	1000000	***4.7***	***4.4***	***4.1***	***4.1***
o-Xylene	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
Styrene	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
Bromoform	720	720000	***2.4***	***2.2***	***2***	***2.1***
1,1,2,2-Tetrachloroethane	220	220000	***2.4***	***2.2***	***2***	***2.1***
Bromobenzene	-	-	***2.4***	***2.2***	***2***	***2.1***
1,2,3-Trichloropropane	-	-	***2.4***	***2.2***	***2***	***2.1***
n-Propylbenzene	-	-	***2.4***	***2.2***	***2***	***2.1***
2-Chlorotoluene	-	-	***2.4***	***2.2***	***2***	***2.1***
1,3,5-Trimethylbenzene	-	-	***2.4***	***2.2***	***2***	***2.1***
4-Chlorotoluene	-	-	***2.4***	***2.2***	***2***	***2.1***
tert-Butylbenzene	-	-	***2.4***	***2.2***	***2***	***2.1***
1,2,4-Trimethylbenzene	-	-	***2.4***	***2.2***	***2***	***2.1***
sec-Butylbenzene	-	-	***2.4***	***2.2***	***2***	***2.1***
1,3-Dichlorobenzene	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
p-Isopropyltoluene	-	-	***2.4***	***2.2***	***2***	***2.1***
1,4-Dichlorobenzene	240	240000	***2.4***	***2.2***	***2***	***2.1***
n-Butylbenzene	-	-	***2.4***	***2.2***	***2***	***2.1***
1,2-Dichlorobenzene	1000	1000000	***2.4***	***2.2***	***2***	***2.1***
1,2-Dibromo-3-chloropropane	-	-	***2.4***	***2.2***	***2***	***2.1***
1,2,4-Trichlorobenzene	-	-	***2.4***	***2.2***	4.6	***2.1***
Hexachlorobutadiene	-	-	***2.4***	***2.2***	***2***	***2.1***
Naphthalene	-	-	***1.2***	***2.2***	***2***	***2.1***
1,2,3-Trichlorobenzene	-	-	***2.4***	***2.2***	***2***	***2.1***

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Table3-22
Area 3 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	*A3-2ESW-A 03/21/01	A3-2WSW 03/13/01	A3-3SS 03/13/01	A3-3ESW 03/13/01
Dichlorodifluoromethane	-	-	-	***2.9***	***2.4***	***2.3***
Chloromethane	-	-	-	***2.9***	***2.4***	***2.3***
Vinyl chloride	3	3000	-	***2.9***	***2.4***	***2.3***
Bromomethane	-	-	-	***2.9***	***2.4***	***2.3***
Chloroethane	-	-	-	***2.9***	***2.4***	***2.3***
Trichlorofluoromethane	-	-	-	***2.9***	***2.4***	***2.3***
Acetone	1000	1000000	-	41 B	25 B	17 B
1,1-Dichloroethene	9.5	95000	-	***2.9***	***2.4***	***2.3***
Carbon disulfide	-	-	-	***2.9***	***2.4***	***2.3***
Methylene chloride	760	760000	-	4.9 JB	3.8 JB	3.7 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	-	***2.9***	***2.4***	***2.3***
trans-1,2-Dichloroethene	1000	1000000	-	***2.9***	***2.4***	***2.3***
1,1-Dichloroethane	1000	1000000	-	***2.9***	***2.4***	***2.3***
Vinyl acetate	-	-	-	***2.9***	***2.4***	***2.3***
2-Butanone (MEK)	1000	1000000	-	***2.9***	***2.4***	***2.3***
cis-1,2-Dichloroethene	1000	1000000	-	***2.9***	***2.4***	***2.3***
2,2-Dichloropropanone	-	-	-	***2.9***	***2.4***	***2.3***
Chloroform	940	940000	-	***2.9***	***2.4***	***2.3***
1,1,1-Trichloroethane	1000	1000000	-	***2.9***	***2.4***	***2.3***
1,1-Dichloropropene	-	-	-	***2.9***	***2.4***	***2.3***
Carbon tetrachloride	44	44000	-	***2.9***	***2.4***	***2.3***
Benzene	200	200000	-	***2.9***	***2.4***	***2.3***
1,2-Dichloroethane	1000	1000000	-	***2.9***	***2.4***	***2.3***
Trichloroethene	520	520000	-	***2.9***	***2.4***	***2.3***
1,2-Dichloropropane	84	84000	-	***2.9***	***2.4***	***2.3***
Dibromomethane	-	-	-	***2.9***	***2.4***	***2.3***
Bromodichloromethane	-	-	-	***2.9***	***2.4***	***2.3***
2-Chloroethylvinyl ether	-	-	-	***2.9***	***2.4***	***2.3***
Methyl isobutyl ketone (MIBK)	1000	1000000	-	***2.9***	***2.4***	***2.3***
cis-1,3-Dichloropropene	32	32000	-	***2.9***	***2.4***	***2.3***
Toluene	1000	1000000	-	***2.9***	***2.4***	***2.3***
trans-1,3-Dichlororopene	32	32000	-	***2.9***	***2.4***	***2.3***
1,1,2-Trichloroethane	100	100000	-	***2.9***	***2.4***	***2.3***
2-Hexanone	-	-	-	***2.9***	***2.4***	***2.3***
Tetrachloroethene	520	520000	-	***2.9***	***2.4***	***2.3***
1,3-Dichloropropane	-	-	-	***2.9***	***2.4***	***2.3***
Dibromochloromethane	-	-	-	***2.9***	***2.4***	***2.3***
1,2-Dibromomethane	-	-	-	***2.9***	***2.4***	***2.3***
Chlorobenzene	1000	1000000	-	***2.9***	***2.4***	***2.3***
1,1,1,2-Tetrachloroethane	220	220000	-	***2.9***	***2.4***	***2.3***
Ethylbenzene	1000	1000000	-	***2.9***	***2.4***	***2.3***
p/m-Xylene	1000	1000000	-	***5.8***	***4.8***	***4.5***
o-Xylene	1000	1000000	-	***2.9***	***2.4***	***2.3***
Styrene	1000	1000000	-	***2.9***	***2.4***	***2.3***
Bromoform	720	720000	-	***2.9***	***2.4***	***2.3***
1,1,2,2-Tetrachloroethane	220	220000	-	***2.9***	***2.4***	***2.3***
Bromobenzene	-	-	-	***2.9***	***2.4***	***2.3***
1,2,3-Trichloropropane	-	-	-	***2.9***	***2.4***	***2.3***
n-Propylbenzene	-	-	-	***2.9***	***2.4***	***2.3***
2-Chlorotoluene	-	-	-	***2.9***	***2.4***	***2.3***
1,3,5-Trimethylbenzene	-	-	-	***2.9***	***2.4***	***2.3***
4-Chlorotoluene	-	-	-	***2.9***	***2.4***	***2.3***
tert-Butylbenzene	-	-	-	***2.9***	***2.4***	***2.3***
1,2,4-Trimethylbenzene	-	-	-	***2.9***	***2.4***	***2.3***
sec-Butylbenzene	-	-	-	***2.9***	***2.4***	***2.3***
1,3-Dichlorobenzene	1000	1000000	-	***2.9***	***2.4***	***2.3***
p-Isopropyltoluene	-	-	-	***2.9***	***2.4***	***2.3***
1,4-Dichlorobenzene	240	240000	-	***2.9***	***2.4***	***2.3***
n-Butylbenzene	-	-	-	***2.9***	***2.4***	***2.3***
1,2-Dichlorobenzene	1000	1000000	-	***2.9***	***2.4***	***2.3***
1,2-Dibromo-3-chloropropane	-	-	-	***2.9***	***2.4***	***2.3***
1,2,4-Trichlorobenzene	-	-	-	***2.9***	***2.4***	***2.3***
Hexachlorobutadiene	-	-	-	***2.9***	***2.4***	***2.3***
Naphthalene	-	-	-	***2.9***	***2.4***	***2.3***
1,2,3-Trichlorobenzene	-	-	-	***2.9***	***2.4***	***2.3***

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb).

Table3-22
Area 3 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A3-4SS 03/13/01	A3-4ESW 03/13/01	A3-4E-SW-A 03/21/01	A3-5SS 03/13/01
Dichlorodifluoromethane	-	-	***2.6***	***2.3***	-	***2.4***
Chloromethane	-	-	***2.6***	***2.3***	-	***2.4***
Vinyl chloride	3	3000	***2.6***	***2.3***	-	***2.4***
Bromomethane	-	-	***2.6***	*1.3*	-	***2.4***
Chloroethane	-	-	***2.6***	***2.3***	-	***2.4***
Trichlorofluoromethane	-	-	***2.6***	***2.3***	-	***2.4***
Acetone	1000	1000000	60 B	90 B	-	42 B
1,1-Dichloroethene	9.5	95000	***2.6***	***2.3***	-	***2.4***
Carbon disulfide	-	-	***2.6***	***2.3***	-	***2.4***
Methylene chloride	760	760000	2.6 JB	3.3 JB	-	3.6 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.6***	***2.3***	-	***2.4***
trans-1,2-Dichloroethene	1000	1000000	***2.6***	***2.3***	-	***2.4***
1,1-Dichloroethane	1000	1000000	***2.6***	***2.3***	-	***2.4***
Vinyl acetate	-	-	***2.6***	***2.3***	-	***2.4***
2-Butanone (MEK)	1000	1000000	***2.6***	10	-	***2.4***
cis-1,2-Dichloroethene	1000	1000000	***2.6***	***2.3***	-	***2.4***
2,2-Dichloropropanone	-	-	***2.6***	***2.3***	-	***2.4***
Chloroform	940	940000	***2.6***	***2.3***	-	***2.4***
1,1,1-Trichloroethane	1000	1000000	***2.6***	***2.3***	-	***2.4***
1,1-Dichloropropene	-	-	***2.6***	***2.3***	-	***2.4***
Carbon tetrachloride	44	44000	***2.6***	***2.3***	-	***2.4***
Benzene	200	200000	***2.6***	***2.3***	-	***2.4***
1,2-Dichloroethane	1000	1000000	***2.6***	***2.3***	-	***2.4***
Trichloroethene	520	520000	***2.6***	***2.3***	-	***2.4***
1,2-Dichloropropane	84	84000	***2.6***	***2.3***	-	***2.4***
Dibromomethane	-	-	***2.6***	***2.3***	-	***2.4***
Bromodichloromethane	-	-	***2.6***	***2.3***	-	***2.4***
2-Chloroethylvinyl ether	-	-	***2.6***	***2.3***	-	***2.4***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.6***	***2.3***	-	***2.4***
cis-1,3-Dichloropropene	32	32000	***2.6***	***2.3***	-	***2.4***
Toluene	1000	1000000	***2.6***	***2.3***	-	***2.4***
trans-1,3-Dichlororopene	32	32000	***2.6***	***2.3***	-	***2.4***
1,1,2-Trichloroethane	100	100000	***2.6***	***2.3***	-	***2.4***
2-Hexanone	-	-	***2.6***	***2.3***	-	***2.4***
Tetrachloroethene	520	520000	***2.6***	***2.3***	-	***2.4***
1,3-Dichloropropane	-	-	***2.6***	***2.3***	-	***2.4***
Dibromochloromethane	-	-	***2.6***	***2.3***	-	***2.4***
1,2-Dibromomethane	-	-	***2.6***	***2.3***	-	***2.4***
Chlorobenzene	1000	1000000	***2.6***	***2.3***	-	***2.4***
1,1,1,2-Tetrachloroethane	220	220000	***2.6***	***2.3***	-	***2.4***
Ethylbenzene	1000	1000000	***2.6***	***2.3***	-	***2.4***
p/m-Xylene	1000	1000000	***5.1***	***4.5***	-	***4.8***
o-Xylene	1000	1000000	***2.6***	***2.3***	-	***2.4***
Styrene	1000	1000000	***2.6***	***2.3***	-	***2.4***
Bromoform	720	720000	***2.6***	***2.3***	-	***2.4***
1,1,2,2-Tetrachloroethane	220	220000	***2.6***	***2.3***	-	***2.4***
Bromobenzene	-	-	***2.6***	***2.3***	-	***2.4***
1,2,3-Trichloropropane	-	-	***2.6***	***2.3***	-	***2.4***
n-Propylbenzene	-	-	***2.6***	***2.3***	-	***2.4***
2-Chlorotoluene	-	-	***2.6***	***2.3***	-	***2.4***
1,3,5-Trimethylbenzene	-	-	***2.6***	***2.3***	-	***2.4***
4-Chlorotoluene	-	-	***2.6***	***2.3***	-	***2.4***
tert-Butylbenzene	-	-	***2.6***	***2.3***	-	***2.4***
1,2,4-Trimethylbenzene	-	-	***2.6***	***2.3***	-	***2.4***
sec-Butylbenzene	-	-	***2.6***	***2.3***	-	***2.4***
1,3-Dichlorobenzene	1000	1000000	***2.6***	***2.3***	-	***2.4***
p-Isopropyltoluene	-	-	***2.6***	***2.3***	-	***2.4***
1,4-Dichlorobenzene	240	240000	***2.6***	***2.3***	-	***2.4***
n-Butylbenzene	-	-	***2.6***	***2.3***	-	***2.4***
1,2-Dichlorobenzene	1000	1000000	***2.6***	***2.3***	-	***2.4***
1,2-Dibromo-3-chloropropane	-	-	***2.6***	***2.3***	-	***2.4***
1,2,4-Trichlorobenzene	-	-	***2.6***	***2.3***	-	***2.4***
Hexachlorobutadiene	-	-	***2.6***	***2.3***	-	***2.4***
Naphthalene	-	-	*1.4*	***2.3***	-	***2.4***
1,2,3-Trichlorobenzene	-	-	***2.6***	***2.3***	-	***2.4***

Notes: * Represents a sample ID labelling error on the original COC.
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb).

Table3-22
Area 3 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A3-5ESW 03/13/01	A3-5ESW-A 03/21/01	A3-6SS 03/13/01	A3-6SSW 03/13/01
Dichlorodifluoromethane	-	-	***2.5***	-	***2.6***	***2.5***
Chloromethane	-	-	***2.5***	-	***2.6***	*1.5*
Vinyl chloride	3	3000	***2.5***	-	***2.6***	***2.5***
Bromomethane	-	-	***2.5***	-	***2.6***	***2.5***
Chloroethane	-	-	***2.5***	-	***2.6***	***2.5***
Trichlorofluoromethane	-	-	***2.5***	-	***2.6***	***2.5***
Acetone	1000	1000000	41 B	-	39 B	78 B
1,1-Dichloroethene	9.5	95000	***2.5***	-	***2.6***	***2.5***
Carbon disulfide	-	-	***2.5***	-	***2.6***	***2.5***
Methylene chloride	760	760000	3.9 JB	-	4.1 JB	4.4 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.5***	-	***2.6***	***2.5***
trans-1,2-Dichloroethene	1000	1000000	***2.5***	-	***2.6***	***2.5***
1,1-Dichloroethane	1000	1000000	***2.5***	-	***2.6***	***2.5***
Vinyl acetate	-	-	***2.5***	-	***2.6***	***2.5***
2-Butanone (MEK)	1000	1000000	***2.5***	-	***2.6***	***2.5***
cis-1,2-Dichloroethene	1000	1000000	***2.5***	-	***2.6***	***2.5***
2,2-Dichloropropanone	-	-	***2.5***	-	***2.6***	***2.5***
Chloroform	940	940000	***2.5***	-	***2.6***	***2.5***
1,1,1-Trichloroethane	1000	1000000	***2.5***	-	***2.6***	***2.5***
1,1-Dichloropropene	-	-	***2.5***	-	***2.6***	***2.5***
Carbon tetrachloride	44	44000	***2.5***	-	***2.6***	***2.5***
Benzene	200	200000	***2.5***	-	***2.6***	***2.5***
1,2-Dichloroethane	1000	1000000	***2.5***	-	***2.6***	***2.5***
Trichloroethene	520	520000	***2.5***	-	***2.6***	***2.5***
1,2-Dichloropropane	84	84000	***2.5***	-	***2.6***	***2.5***
Dibromomethane	-	-	***2.5***	-	***2.6***	***2.5***
Bromodichloromethane	-	-	***2.5***	-	***2.6***	***2.5***
2-Chloroethylvinyl ether	-	-	***2.5***	-	***2.6***	***2.5***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.5***	-	***2.6***	***2.5***
cis-1,3-Dichloropropene	32	32000	***2.5***	-	***2.6***	***2.5***
Toluene	1000	1000000	***2.5***	-	***2.6***	***2.5***
trans-1,3-Dichlororopene	32	32000	***2.5***	-	***2.6***	***2.5***
1,1,2-Trichloroethane	100	100000	***2.5***	-	***2.6***	***2.5***
2-Hexanone	-	-	***2.5***	-	***2.6***	***2.5***
Tetrachloroethene	520	520000	***2.5***	-	***2.6***	***2.5***
1,3-Dichloropropane	-	-	***2.5***	-	***2.6***	***2.5***
Dibromochloromethane	-	-	***2.5***	-	***2.6***	***2.5***
1,2-Dibromomethane	-	-	***2.5***	-	***2.6***	***2.5***
Chlorobenzene	1000	1000000	***2.5***	-	***2.6***	***2.5***
1,1,1,2-Tetrachloroethane	220	220000	***2.5***	-	***2.6***	***2.5***
Ethylbenzene	1000	1000000	***2.5***	-	***2.6***	***2.5***
p/m-Xylene	1000	1000000	***5.1***	-	***5.2***	***4.9***
o-Xylene	1000	1000000	***2.5***	-	***2.6***	***2.5***
Styrene	1000	1000000	***2.5***	-	***2.6***	***2.5***
Bromoform	720	720000	***2.5***	-	***2.6***	***2.5***
1,1,2,2-Tetrachloroethane	220	220000	***2.5***	-	***2.6***	***2.5***
Bromobenzene	-	-	***2.5***	-	***2.6***	***2.5***
1,2,3-Trichloropropane	-	-	***2.5***	-	***2.6***	***2.5***
n-Propylbenzene	-	-	***2.5***	-	***2.6***	***2.5***
2-Chlorotoluene	-	-	***2.5***	-	***2.6***	***2.5***
1,3,5-Trimethylbenzene	-	-	***2.5***	-	***2.6***	***2.5***
4-Chlorotoluene	-	-	***2.5***	-	***2.6***	***2.5***
tert-Butylbenzene	-	-	***2.5***	-	***2.6***	***2.5***
1,2,4-Trimethylbenzene	-	-	***2.5***	-	***2.6***	***2.5***
sec-Butylbenzene	-	-	***2.5***	-	***2.6***	***2.5***
1,3-Dichlorobenzene	1000	1000000	***2.5***	-	***2.6***	***2.5***
p-Isopropyltoluene	-	-	***2.5***	-	***2.6***	***2.5***
1,4-Dichlorobenzene	240	240000	***2.5***	-	***2.6***	***2.5***
n-Butylbenzene	-	-	***2.5***	-	***2.6***	***2.5***
1,2-Dichlorobenzene	1000	1000000	***2.5***	-	***2.6***	***2.5***
1,2-Dibromo-3-chloropropane	-	-	***2.5***	-	***2.6***	***2.5***
1,2,4-Trichlorobenzene	-	-	***2.5***	-	***2.6***	***2.5***
Hexachlorobutadiene	-	-	***2.5***	-	***2.6***	***2.5***
Naphthalene	-	-	***2.5***	-	***2.6***	***2.5***
1,2,3-Trichlorobenzene	-	-	***2.5***	-	***2.6***	***2.5***

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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
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All data presented in ug/kg (ppb).

Table3-22
Area 3 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A3-6SSW-A 03/21/01	A3-7SS 03/13/01	A3-7WSW 03/13/01	A3-7WSW-A 03/21/01
Dichlorodifluoromethane	-	-	-	***2.1***	-	-
Chloromethane	-	-	-	***2.1***	-	-
Vinyl chloride	3	3000	-	***2.1***	-	-
Bromomethane	-	-	-	***2.1***	-	-
Chloroethane	-	-	-	***2.1***	-	-
Trichlorofluoromethane	-	-	-	***2.1***	-	-
Acetone	1000	1000000	-	37 B	-	-
1,1-Dichloroethene	9.5	95000	-	***2.1***	-	-
Carbon disulfide	-	-	-	***2.1***	-	-
Methylene chloride	760	760000	-	3.5 JB	-	-
Methyl tert-butyl ether(MTBE)	1000	1000000	-	***2.1***	-	-
trans-1,2-Dichloroethene	1000	1000000	-	***2.1***	-	-
1,1-Dichloroethane	1000	1000000	-	***2.1***	-	-
Vinyl acetate	-	-	-	***2.1***	-	-
2-Butanone (MEK)	1000	1000000	-	***2.1***	-	-
cis-1,2-Dichloroethene	1000	1000000	-	***2.1***	-	-
2,2-Dichloropropanone	-	-	-	***2.1***	-	-
Chloroform	940	940000	-	***2.1***	-	-
1,1,1-Trichloroethane	1000	1000000	-	***2.1***	-	-
1,1-Dichloropropene	-	-	-	***2.1***	-	-
Carbon tetrachloride	44	44000	-	***2.1***	-	-
Benzene	200	200000	-	***2.1***	-	-
1,2-Dichloroethane	1000	1000000	-	***2.1***	-	-
Trichloroethene	520	520000	-	***2.1***	-	-
1,2-Dichloropropane	84	84000	-	***2.1***	-	-
Dibromomethane	-	-	-	***2.1***	-	-
Bromodichloromethane	-	-	-	***2.1***	-	-
2-Chloroethylvinyl ether	-	-	-	***2.1***	-	-
Methyl isobutyl ketone (MIBK)	1000	1000000	-	***2.1***	-	-
cis-1,3-Dichloropropene	32	32000	-	***2.1***	-	-
Toluene	1000	1000000	-	***2.1***	-	-
trans-1,3-Dichlororopene	32	32000	-	***2.1***	-	-
1,1,2-Trichloroethane	100	100000	-	***2.1***	-	-
2-Hexanone	-	-	-	***2.1***	-	-
Tetrachloroethene	520	520000	-	***2.1***	-	-
1,3-Dichloropropane	-	-	-	***2.1***	-	-
Dibromochloromethane	-	-	-	***2.1***	-	-
1,2-Dibromomethane	-	-	-	***2.1***	-	-
Chlorobenzene	1000	1000000	-	***2.1***	-	-
1,1,1,2-Tetrachloroethane	220	220000	-	***2.1***	-	-
Ethylbenzene	1000	1000000	-	***2.1***	-	-
p/m-Xylene	1000	1000000	-	***4.2***	-	-
o-Xylene	1000	1000000	-	***2.1***	-	-
Styrene	1000	1000000	-	***2.1***	-	-
Bromoform	720	720000	-	***2.1***	-	-
1,1,2,2-Tetrachloroethane	220	220000	-	***2.1***	-	-
Bromobenzene	-	-	-	***2.1***	-	-
1,2,3-Trichloropropane	-	-	-	***2.1***	-	-
n-Propylbenzene	-	-	-	***2.1***	-	-
2-Chlorotoluene	-	-	-	***2.1***	-	-
1,3,5-Trimethylbenzene	-	-	-	***2.1***	-	-
4-Chlorotoluene	-	-	-	***2.1***	-	-
tert-Butylbenzene	-	-	-	***2.1***	-	-
1,2,4-Trimethylbenzene	-	-	-	***2.1***	-	-
sec-Butylbenzene	-	-	-	***2.1***	-	-
1,3-Dichlorobenzene	1000	1000000	-	***2.1***	-	-
p-Isopropyltoluene	-	-	-	***2.1***	-	-
1,4-Dichlorobenzene	240	240000	-	***2.1***	-	-
n-Butylbenzene	-	-	-	***2.1***	-	-
1,2-Dichlorobenzene	1000	1000000	-	***2.1***	-	-
1,2-Dibromo-3-chloropropane	-	-	-	***2.1***	-	-
1,2,4-Trichlorobenzene	-	-	-	***2.1***	-	-
Hexachlorobutadiene	-	-	-	***2.1***	-	-
Naphthalene	-	-	-	*1.6*	-	-
1,2,3-Trichlorobenzene	-	-	-	***2.1***	-	-

Notes: * Represents a sample ID labelling error on the original COC.
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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb).

Table3-22
Area 3 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A3-8SS 03/13/01	A3-8WSW 03/13/01	A3-8 WSW-A 03/21/01	A3-9SS 03/13/01
Dichlorodifluoromethane	-	-	***3***	***2.7***	-	***2.6***
Chloromethane	-	-	***3***	***2.7***	-	***2.6***
Vinyl chloride	3	3000	***3***	***2.7***	-	***2.6***
Bromomethane	-	-	***3***	***2.7***	-	***2.6***
Chloroethane	-	-	***3***	***2.7***	-	***2.6***
Trichlorofluoromethane	-	-	***3***	***2.7***	-	***2.6***
Acetone	1000	1000000	57 B	53 B	-	54 B
1,1-Dichloroethene	9.5	95000	***3***	***2.7***	-	***2.6***
Carbon disulfide	-	-	***3***	***2.7***	-	***2.6***
Methylene chloride	760	760000	4.9 JB	***4.1 JB***	-	3.3 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***3***	***2.7***	-	***2.6***
trans-1,2-Dichloroethene	1000	1000000	***3***	***2.7***	-	***2.6***
1,1-Dichloroethane	1000	1000000	***3***	***2.7***	-	***2.6***
Vinyl acetate	-	-	***3***	***2.7***	-	***2.6***
2-Butanone (MEK)	1000	1000000	***3***	***2.7***	-	***2.6***
cis-1,2-Dichloroethene	1000	1000000	***3***	***2.7***	-	***2.6***
2,2-Dichloropropanone	-	-	***3***	***2.7***	-	***2.6***
Chloroform	940	940000	***3***	***2.7***	-	***2.6***
1,1,1-Trichloroethane	1000	1000000	***3***	***2.7***	-	***2.6***
1,1-Dichloropropene	-	-	***3***	***2.7***	-	***2.6***
Carbon tetrachloride	44	44000	***3***	***2.7***	-	***2.6***
Benzene	200	200000	***3***	***2.7***	-	***2.6***
1,2-Dichloroethane	1000	1000000	***3***	***2.7***	-	***2.6***
Trichloroethene	520	520000	***3***	***2.7***	-	***2.6***
1,2-Dichloropropane	84	84000	***3***	***2.7***	-	***2.6***
Dibromomethane	-	-	***3***	***2.7***	-	***2.6***
Bromodichloromethane	-	-	***3***	***2.7***	-	***2.6***
2-Chloroethylvinyl ether	-	-	***3***	***2.7***	-	***2.6***
Methyl isobutyl ketone (MIBK)	1000	1000000	***3***	***2.7***	-	***2.6***
cis-1,3-Dichloropropene	32	32000	***3***	***2.7***	-	***2.6***
Toluene	1000	1000000	***3***	***2.7***	-	***2.6***
trans-1,3-Dichlororopene	32	32000	***3***	***2.7***	-	***2.6***
1,1,2-Trichloroethane	100	100000	***3***	***2.7***	-	***2.6***
2-Hexanone	-	-	***3***	***2.7***	-	***2.6***
Tetrachloroethene	520	520000	***3***	***2.7***	-	***2.6***
1,3-Dichloropropane	-	-	***3***	***2.7***	-	***2.6***
Dibromochloromethane	-	-	***3***	***2.7***	-	***2.6***
1,2-Dibromomethane	-	-	***3***	***2.7***	-	***2.6***
Chlorobenzene	1000	1000000	***3***	***2.7***	-	***2.6***
1,1,1,2-Tetrachloroethane	220	220000	***3***	***2.7***	-	***2.6***
Ethylbenzene	1000	1000000	***3***	***2.7***	-	***2.6***
p/m-Xylene	1000	1000000	***5.9***	***5.5***	-	***5.3***
o-Xylene	1000	1000000	***3***	***2.7***	-	***2.6***
Styrene	1000	1000000	***3***	***2.7***	-	***2.6***
Bromoform	720	720000	***3***	***2.7***	-	***2.6***
1,1,2,2-Tetrachloroethane	220	220000	***3***	***2.7***	-	***2.6***
Bromobenzene	-	-	***3***	***2.7***	-	***2.6***
1,2,3-Trichloropropane	-	-	***3***	***2.7***	-	***2.6***
n-Propylbenzene	-	-	***3***	***2.7***	-	***2.6***
2-Chlorotoluene	-	-	***3***	***2.7***	-	***2.6***
1,3,5-Trimethylbenzene	-	-	***3***	***2.7***	-	***2.6***
4-Chlorotoluene	-	-	***3***	***2.7***	-	***2.6***
tert-Butylbenzene	-	-	***3***	***2.7***	-	***2.6***
1,2,4-Trimethylbenzene	-	-	***3***	***2.7***	-	***2.6***
sec-Butylbenzene	-	-	***3***	***2.7***	-	***2.6***
1,3-Dichlorobenzene	1000	1000000	***3***	***2.7***	-	***2.6***
p-Isopropyltoluene	-	-	***3***	***2.7***	-	***2.6***
1,4-Dichlorobenzene	240	240000	***3***	***2.7***	-	***2.6***
n-Butylbenzene	-	-	***3***	***2.7***	-	***2.6***
1,2-Dichlorobenzene	1000	1000000	***3***	***2.7***	-	***2.6***
1,2-Dibromo-3-chloropropane	-	-	***3***	***2.7***	-	***2.6***
1,2,4-Trichlorobenzene	-	-	***3***	***2.7***	-	***2.6***
Hexachlorobutadiene	-	-	***3***	***2.7***	-	***2.6***
Naphthalene	-	-	***3***	***2.7***	-	***2.6***
1,2,3-Trichlorobenzene	-	-	***3***	***2.7***	-	***2.6***

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All data presented in ug/kg (ppb).

Table3-22
Area 3 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A3-9WSW 03/13/01	A3-9WSW-A 03/21/01	A3-10SS 03/13 01	A3-10WSW 03/13/01
Dichlorodifluoromethane	-	-	***2.4***	-	-	***1.8***
Chloromethane	-	-	***2.4***	-	-	***1.8***
Vinyl chloride	3	3000	***2.4***	-	-	***1.8***
Bromomethane	-	-	***2.4***	-	-	***1.8***
Chloroethane	-	-	***2.4***	-	-	***1.8***
Trichlorofluoromethane	-	-	***2.4***	-	-	***1.8***
Acetone	1000	1000000	67 B	-	-	40 B
1,1-Dichloroethene	9.5	95000	***2.4***	-	-	***1.8***
Carbon disulfide	-	-	***2.4***	-	-	***1.8***
Methylene chloride	760	760000	2.5 JB	-	-	1.9 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.4***	-	-	***1.8***
trans-1,2-Dichloroethene	1000	1000000	***2.4***	-	-	***1.8***
1,1-Dichloroethane	1000	1000000	***2.4***	-	-	***1.8***
Vinyl acetate	-	-	***2.4***	-	-	***1.8***
2-Butanone (MEK)	1000	1000000	5.4	-	-	2.9
cis-1,2-Dichloroethene	1000	1000000	***2.4***	-	-	***1.8***
2,2-Dichloropropanone	-	-	***2.4***	-	-	***1.8***
Chloroform	940	940000	***2.4***	-	-	***1.8***
1,1,1-Trichloroethane	1000	1000000	***2.4***	-	-	***1.8***
1,1-Dichloropropene	-	-	***2.4***	-	-	***1.8***
Carbon tetrachloride	44	44000	***2.4***	-	-	***1.8***
Benzene	200	200000	***2.4***	-	-	***1.8***
1,2-Dichloroethane	1000	1000000	***2.4***	-	-	***1.8***
Trichloroethene	520	520000	***2.4***	-	-	***1.8***
1,2-Dichloropropane	84	84000	***2.4***	-	-	***1.8***
Dibromomethane	-	-	***2.4***	-	-	***1.8***
Bromodichloromethane	-	-	***2.4***	-	-	***1.8***
2-Chloroethylvinyl ether	-	-	***2.4***	-	-	***1.8***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.4***	-	-	***1.8***
cis-1,3-Dichloropropene	32	32000	***2.4***	-	-	***1.8***
Toluene	1000	1000000	***2.4***	-	-	***1.8***
trans-1,3-Dichlororopene	32	32000	***2.4***	-	-	***1.8***
1,1,2-Trichloroethane	100	100000	***2.4***	-	-	***1.8***
2-Hexanone	-	-	***2.4***	-	-	***1.8***
Tetrachloroethene	520	520000	***2.4***	-	-	3.1
1,3-Dichloropropane	-	-	***2.4***	-	-	***1.8***
Dibromochloromethane	-	-	***2.4***	-	-	***1.8***
1,2-Dibromomethane	-	-	***2.4***	-	-	***1.8***
Chlorobenzene	1000	1000000	***2.4***	-	-	***1.8***
1,1,1,2-Tetrachloroethane	220	220000	***2.4***	-	-	***1.8***
Ethylbenzene	1000	1000000	***2.4***	-	-	***1.8***
p/m-Xylene	1000	1000000	***4.7***	-	-	***3.6***
o-Xylene	1000	1000000	***2.4***	-	-	***1.8***
Styrene	1000	1000000	***2.4***	-	-	***1.8***
Bromoform	720	720000	***2.4***	-	-	***1.8***
1,1,2,2-Tetrachloroethane	220	220000	***2.4***	-	-	***1.8***
Bromobenzene	-	-	***2.4***	-	-	***1.8***
1,2,3-Trichloropropane	-	-	***2.4***	-	-	***1.8***
n-Propylbenzene	-	-	***2.4***	-	-	***1.8***
2-Chlorotoluene	-	-	***2.4***	-	-	***1.8***
1,3,5-Trimethylbenzene	-	-	***2.4***	-	-	***1.8***
4-Chlorotoluene	-	-	***2.4***	-	-	***1.8***
tert-Butylbenzene	-	-	***2.4***	-	-	***1.8***
1,2,4-Trimethylbenzene	-	-	***2.4***	-	-	***1.8***
sec-Butylbenzene	-	-	***2.4***	-	-	***1.8***
1,3-Dichlorobenzene	1000	1000000	***2.4***	-	-	***1.8***
p-Isopropyltoluene	-	-	***2.4***	-	-	***1.8***
1,4-Dichlorobenzene	240	240000	***2.4***	-	-	***1.8***
n-Butylbenzene	-	-	***2.4***	-	-	***1.8***
1,2-Dichlorobenzene	1000	1000000	***2.4***	-	-	***1.8***
1,2-Dibromo-3-chloropropane	-	-	***2.4***	-	-	***1.8***
1,2,4-Trichlorobenzene	-	-	***2.4***	-	-	***1.8***
Hexachlorobutadiene	-	-	***2.4***	-	-	***1.8***
Naphthalene	-	-	1.2	-	-	71
1,2,3-Trichlorobenzene	-	-	***2.4***	-	-	***1.8***

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All data presented in ug/kg (ppb).

Table3-22
Area 3 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A3-10WSW-A 03/21/01	A3-11SS 03/13/01	A3-11SSW 03/13/01	A3-11SSW-A 03/21/01
Dichlorodifluoromethane	-	-	-	***2.6***	***2.3***	-
Chloromethane	-	-	-	***2.6***	***2.3***	-
Vinyl chloride	3	3000	-	***2.6***	***2.3***	-
Bromomethane	-	-	-	*1.7*	***2.3***	-
Chloroethane	-	-	-	***2.6***	***2.3***	-
Trichlorofluoromethane	-	-	-	***2.6***	***2.3***	-
Acetone	1000	1000000	-	65 B	57 B	-
1,1-Dichloroethene	9.5	95000	-	***2.6***	***2.3***	-
Carbon disulfide	-	-	-	***2.6***	***2.3***	-
Methylene chloride	760	760000	-	1.8 JB	2.6 JB	-
Methyl tert-butyl ether(MTBE)	1000	1000000	-	***2.6***	***2.3***	-
trans-1,2-Dichloroethene	1000	1000000	-	***2.6***	***2.3***	-
1,1-Dichloroethane	1000	1000000	-	***2.6***	***2.3***	-
Vinyl acetate	-	-	-	***2.6***	***2.3***	-
2-Butanone (MEK)	1000	1000000	-	***2.6***	***2.3***	-
cis-1,2-Dichloroethene	1000	1000000	-	***2.6***	***2.3***	-
2,2-Dichloropropanone	-	-	-	***2.6***	***2.3***	-
Chloroform	940	940000	-	***2.6***	***2.3***	-
1,1,1-Trichloroethane	1000	1000000	-	***2.6***	***2.3***	-
1,1-Dichloropropene	-	-	-	***2.6***	***2.3***	-
Carbon tetrachloride	44	44000	-	***2.6***	***2.3***	-
Benzene	200	200000	-	***2.6***	***2.3***	-
1,2-Dichloroethane	1000	1000000	-	***2.6***	***2.3***	-
Trichloroethene	520	520000	-	***2.6***	***2.3***	-
1,2-Dichloropropane	84	84000	-	***2.6***	***2.3***	-
Dibromomethane	-	-	-	***2.6***	***2.3***	-
Bromodichloromethane	-	-	-	***2.6***	***2.3***	-
2-Chloroethylvinyl ether	-	-	-	***2.6***	***2.3***	-
Methyl isobutyl ketone (MIBK)	1000	1000000	-	***2.6***	***2.3***	-
cis-1,3-Dichloropropene	32	32000	-	***2.6***	***2.3***	-
Toluene	1000	1000000	-	***2.6***	***2.3***	-
trans-1,3-Dichlororopene	32	32000	-	***2.6***	***2.3***	-
1,1,2-Trichloroethane	100	100000	-	***2.6***	***2.3***	-
2-Hexanone	-	-	-	***2.6***	***2.3***	-
Tetrachloroethene	520	520000	-	***2.6***	***2.3***	-
1,3-Dichloropropane	-	-	-	***2.6***	***2.3***	-
Dibromochloromethane	-	-	-	***2.6***	***2.3***	-
1,2-Dibromomethane	-	-	-	***2.6***	***2.3***	-
Chlorobenzene	1000	1000000	-	***2.6***	***2.3***	-
1,1,1,2-Tetrachloroethane	220	220000	-	***2.6***	***2.3***	-
Ethylbenzene	1000	1000000	-	***2.6***	***2.3***	-
p/m-Xylene	1000	1000000	-	***5.3***	***4.5***	-
o-Xylene	1000	1000000	-	***2.6***	***2.3***	-
Styrene	1000	1000000	-	***2.6***	***2.3***	-
Bromoform	720	720000	-	***2.6***	***2.3***	-
1,1,2,2-Tetrachloroethane	220	220000	-	***2.6***	***2.3***	-
Bromobenzene	-	-	-	***2.6***	***2.3***	-
1,2,3-Trichloropropane	-	-	-	***2.6***	***2.3***	-
n-Propylbenzene	-	-	-	***2.6***	***2.3***	-
2-Chlorotoluene	-	-	-	***2.6***	***2.3***	-
1,3,5-Trimethylbenzene	-	-	-	***2.6***	***2.3***	-
4-Chlorotoluene	-	-	-	***2.6***	***2.3***	-
tert-Butylbenzene	-	-	-	***2.6***	***2.3***	-
1,2,4-Trimethylbenzene	-	-	-	***2.6***	***2.3***	-
sec-Butylbenzene	-	-	-	***2.6***	***2.3***	-
1,3-Dichlorobenzene	1000	1000000	-	***2.6***	***2.3***	-
p-Isopropyltoluene	-	-	-	***2.6***	***2.3***	-
1,4-Dichlorobenzene	240	240000	-	***2.6***	***2.3***	-
n-Butylbenzene	-	-	-	***2.6***	***2.3***	-
1,2-Dichlorobenzene	1000	1000000	-	***2.6***	***2.3***	-
1,2-Dibromo-3-chloropropane	-	-	-	***2.6***	***2.3***	-
1,2,4-Trichlorobenzene	-	-	-	***2.6***	***2.3***	-
Hexachlorobutadiene	-	-	-	***2.6***	***2.3***	-
Naphthalene	-	-	-	***2.6***	32	-
1,2,3-Trichlorobenzene	-	-	-	***2.6***	***2.3***	-

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Table3-22
Area 3 Confirmatory Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A3-11SSW-B 03/26/01	Trip Blank 03/13/01	Trip Blank 03/26/01
Dichlorodifluoromethane	-	-	-	***2***	***2***
Chloromethane	-	-	-	***2***	***2***
Vinyl chloride	3	3000	-	***2***	***2***
Bromomethane	-	-	-	***2***	***2***
Chloroethane	-	-	-	***2***	***2***
Trichlorofluoromethane	-	-	-	***2***	***2***
Acetone	1000	1000000	-	12 B	3.8
1,1-Dichloroethene	9.5	95000	-	***2***	***2***
Carbon disulfide	-	-	-	***2***	***2***
Methylene chloride	760	760000	-	***5***	3.8 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	-	***2***	***2***
trans-1,2-Dichloroethene	1000	1000000	-	***2***	***2***
1,1-Dichloroethane	1000	1000000	-	***2***	***2***
Vinyl acetate	-	-	-	***5***	***2***
2-Butanone (MEK)	1000	1000000	-	***2***	***2***
cis-1,2-Dichloroethene	1000	1000000	-	***2***	***2***
2,2-Dichloropropanone	-	-	-	***2***	***2***
Chloroform	940	940000	-	***2***	***2***
1,1,1-Trichloroethane	1000	1000000	-	***2***	***2***
1,1-Dichloropropene	-	-	-	***2***	***2***
Carbon tetrachloride	44	44000	-	***2***	***2***
Benzene	200	200000	-	***2***	***2***
1,2-Dichloroethane	1000	1000000	-	***2***	***2***
Trichloroethene	520	520000	-	***2***	***2***
1,2-Dichloropropane	84	84000	-	***2***	***2***
Dibromomethane	-	-	-	***2***	***2***
Bromodichloromethane	-	-	-	***2***	***2***
2-Chloroethylvinyl ether	-	-	-	***2***	***2***
Methyl isobutyl ketone (MIBK)	1000	1000000	-	***2***	***2***
cis-1,3-Dichloropropene	32	32000	-	***2***	***2***
Toluene	1000	1000000	-	***2***	***2***
trans-1,3-Dichlororopene	32	32000	-	***2***	***2***
1,1,2-Trichloroethane	100	100000	-	***2***	***2***
2-Hexanone	-	-	-	***2***	***2***
Tetrachloroethene	520	520000	-	***2***	***2***
1,3-Dichloropropane	-	-	-	***2***	***2***
Dibromochloromethane	-	-	-	***2***	***2***
1,2-Dibromomethane	-	-	-	***2***	***2***
Chlorobenzene	1000	1000000	-	***2***	***2***
1,1,1,2-Tetrachloroethane	220	220000	-	***2***	***2***
Ethylbenzene	1000	1000000	-	***2***	***2***
p/m-Xylene	1000	1000000	-	***4***	***4***
o-Xylene	1000	1000000	-	***2***	***2***
Styrene	1000	1000000	-	***2***	***2***
Bromoform	720	720000	-	***2***	***2***
1,1,2,2-Tetrachloroethane	220	220000	-	***2***	***2***
Bromobenzene	-	-	-	***2***	***2***
1,2,3-Trichloropropane	-	-	-	***2***	***2***
n-Propylbenzene	-	-	-	***2***	***2***
2-Chlorotoluene	-	-	-	***2***	***2***
1,3,5-Trimethylbenzene	-	-	-	***2***	***2***
4-Chlorotoluene	-	-	-	***2***	***2***
tert-Butylbenzene	-	-	-	***2***	***2***
1,2,4-Trimethylbenzene	-	-	-	***2***	***2***
sec-Butylbenzene	-	-	-	***2***	***2***
1,3-Dichlorobenzene	1000	1000000	-	***2***	***2***
p-Isopropyltoluene	-	-	-	***2***	***2***
1,4-Dichlorobenzene	240	240000	-	***2***	***2***
n-Butylbenzene	-	-	-	***2***	***2***
1,2-Dichlorobenzene	1000	1000000	-	***2***	***2***
1,2-Dibromo-3-chloropropane	-	-	-	***2***	***2***
1,2,4-Trichlorobenzene	-	-	-	***2***	***2***
Hexachlorobutadiene	-	-	-	***2***	***2***
Naphthalene	-	-	-	***2***	***2***
1,2,3-Trichlorobenzene	-	-	-	***2***	***2***

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb).

Table 3-23
Area 3 Confirmatory Data Summary - TPH
Site: Building A-85 CSA, SUBASENLON

TPH	Ind/comm (mg/Kg)	Adjusted Limits (ug/kg)	A3-1SS 03/13/01	*A3-1NSW 03/13/01	A3-2SS 03/13/01	A3-2ESW 03/13/01	*A3-2ESW-A 03/21/01	A3-2WSW 03/13/01	A3-3SS 03/13/01	A3-3ESW 03/13/01	A3-4SS 03/13/01	A3-4ESW 03/13/01	A3-4E-SW-A 03/21/01	A3-5SS 03/13/01	A3-5ESW 03/13/01	A3-5ESW-A 03/21/01	A3-6SS 03/13/01	A3-6SSW 03/13/01	A3-6SSW-A 03/21/01	A3-7SS 03/13/01	A3-7WSW 03/13/01	A3-7WSW-A 03/21/01	A3-8SS 03/13/01	A3-8WSW 03/13/01	A3-8 WSW-A 03/21/01	A3-9SS 03/13/01	A3-9WSW 03/13/01	A3-9WSW-A 03/21/01	A3-10SS 03/13 01	A3-10WSW 03/13/01	A3-10WSW-A 03/21/01	A3-11SS 03/13/01	A3-11SSW 03/13/01	A3-11SSW-A 03/21/01	A3-11SSW-B 03/26/01
	2500	2500000	***10***	***7***	22	20	-	27	120	***10***	36	240	-	26	130	-	15	50	-	73	160	-	120	82	-	20	29	-	29	140	-	55	220	-	-

Notes: * Represents a sample ID labelling error on the original COC.
The error has been corrected on this data summary table.
- Shaded cells represent exceedences of the CTEDP Industrial /Commercial Direct Exposure Criteria.
- Boxed cells represent exceedences of the CTEDP GB Pollutant Mobility Criteria.
- Bold/Italic numerical data represents non-detect levels at the shown detection limit.
- Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb).

Table 3-24
Wooden Shed Waste Data Summary - Lead
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	WS 03/01/01
Arsenic	**10**	**10**	-
Barium	**140000**	**200**	-
Cadmium	**1000**	**1**	-
Chromium	**100**	**10**	-
Copper	**76000**	**260**	-
Lead Extractable	**-**	**-**	730
Lead Total	**1000**	**3**	520
Mercury	**610**	**0.4**	-
Nickel	**7500**	**20**	-
Selenium	**10000**	**10**	-
Silver	**10000**	**7.2**	-
Zinc	**610000**	**1000**	-

Notes:
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm) concentrations.

Table 3-25
Building A-85 CSA Bunker Concrete Waste Data Summary - Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	CP 03/08/01
Arsenic	**10**	**10**	5.6
Barium	**140000**	**200**	58
Cadmium	**1000**	**1**	***0.72***
Chromium	**100**	**10**	***38***
Copper	**76000**	**260**	-
Lead Extractable		**-**	-
Lead Total	**1000**	**3**	***14***
Mercury	**610**	**0.4**	***0.01***
Nickel	**7500**	**20**	-
Selenium	**10000**	**10**	***0.16***
Silver	**10000**	**7.2**	***14***
Zinc	**610000**	**1000**	-

Notes:
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm) concentrations.

Table 3-26
Building A-85 CSA Bunker Concrete Waste Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Limits Ind/Com (mg/Kg)	Adjusted Limits (ug/kg)	CP 03/08/01
Dichlorodifluoromethane	-	-	***2.7***
Chloromethane	-	-	***2.7***
Vinyl chloride	3	3000	***2.7***
Bromomethane	-	-	***2.7***
Chloroethane	-	-	***2.7***
Trichlorofluoromethane	-	-	***2.7***
Acetone	1000	1000000	26 B
1,1-Dichloroethene	9.5	95000	***2.7***
Carbon disulfide	-	-	***2.7***
Methylene chloride	760	760000	5.1 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.7***
trans-1,2-Dichloroethene	1000	1000000	***2.7***
1,1-Dichloroethane	1000	1000000	***2.7***
Vinyl acetate	-	-	***2.7***
2-Butanone (MEK)	1000	1000000	***2.7***
cis-1,2-Dichloroethene	1000	1000000	***2.7***
2,2-Dichloropropanone	-	-	***2.7***
Chloroform	940	940000	***2.7***
1,1,1-Trichloroethane	1000	1000000	***2.7***
1,1-Dichloropropene	-	-	***2.7***
Carbon tetrachloride	44	44000	***2.7***
Benzene	200	200000	***2.7***
1,2-Dichloroethane	1000	1000000	***2.7***
Trichloroethene	520	520000	***2.7***
1,2-Dichloropropane	84	84000	***2.7***
Dibromomethane	-	-	***2.7***
Bromodichloromethane	-	-	***2.7***
2-Chloroethylvinyl ether	-	-	***2.7***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.7***
cis-1,3-Dichloropropene	32	32000	***2.7***
Toluene	1000	1000000	***2.7***
trans-1,3-Dichlororopene	32	32000	***2.7***
1,1,2-Trichloroethane	100	100000	***2.7***
2-Hexanone	-	-	***2.7***
Tetrachloroethene	520	520000	***2.7***
1,3-Dichloropropane	-	-	***2.7***
Dibromochloromethane	-	-	***2.7***
1,2-Dibromomethane	-	-	***2.7***
Chlorobenzene	1000	1000000	***2.7***
1,1,1,2-Tetrachloroethane	220	220000	***2.7***
Ethylbenzene	1000	1000000	***2.7***
p/m-Xylene	1000	1000000	***2.7***
o-Xylene	1000	1000000	***2.7***
Styrene	1000	1000000	***2.7***
Bromoform	720	720000	***2.7***
1,1,2,2-Tetrachloroethane	220	220000	***2.7***
Bromobenzene	-	-	***2.7***
1,2,3-Trichloropropane	-	-	***2.7***
n-Propylbenzene	-	-	***2.7***
2-Chlorotoluene	-	-	***2.7***
1,3,5-Trimethylbenzene	-	-	***2.7***
4-Chlorotoluene	-	-	***2.7***
tert-Butylbenzene	-	-	***2.7***
1,2,4-Trimethylbenzene	-	-	***2.7***
sec-Butylbenzene	-	-	***2.7***
1,3-Dichlorobenzene	1000	1000000	***2.7***
p-Isopropyltoluene	-	-	***2.7***
1,4-Dichlorobenzene	240	240000	***2.7***
n-Butylbenzene	-	-	***2.7***
1,2-Dichlorobenzene	1000	1000000	***2.7***
1,2-Dibromo-3-chloropropane	-	-	***2.7***
1,2,4-Trichlorobenzene	-	-	***2.7***
Hexachlorobutadiene	-	-	***2.7***
Naphthalene	-	-	*2.3*
1,2,3-Trichlorobenzene	-	-	***2.7***

Notes:
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· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-27
Building A-85 CSA Bunker Concrete Waste Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	CP 03/08/01
bis(2 Chloroethyl)ether	5.2	5200	*280*
Phenol	2500	2500000	*280*
2-Chlorophenol	2500	2500000	*280*
1,3-Dichlorobenzene	1000	1000000	*280*
1,4-Dichlorobenzene	240	240000	*280*
1,2-Dichlorobenzene	1000	1000000	*280*
Benzyl alcohol	N/A	N/A	*280*
bis(2-chloroisopropyl)ether	82	82000	*280*
2-Methylphenol	N/A	N/A	*280*
Hexachloroethane	410	410000	*280*
N-Nitroso-di-n-propylamine	N/A	N/A	*280*
4-Methylphenol	N/A	N/A	*280*
Nitrobenzene	N/A	N/A	*280*
Isophorone	N/A	N/A	*280*
2-Nitrophenol	N/A	N/A	*280*
2,4-Dimethylphenol	N/A	N/A	*280*
Benzoic acid	N/A	N/A	*280*
bis(2-chloroethoxy)methane	N/A	N/A	*280*
2,4-Dichlorophenol	2500	2500000	*280*
1,2,4-Trichlorobenzene	N/A	N/A	*280*
Napthalene	2500	2500000	*280*
4-Chloroaniline	N/A	N/A	*280*
Hexachlorobutadiene	N/A	N/A	*280*
4-Chloro-3-methylphenol	N/A	N/A	*280*
2-Methylnaphthalene	N/A	N/A	*280*
Hexachlorocyclopentadiene	N/A	N/A	*280*
2,4,6-Trichlorophenol	N/A	N/A	*280*
2,4,5-Trichlorophenol	N/A	N/A	*280*
2-Chloronapthalene	N/A	N/A	*280*
2-Nitroaniline	N/A	N/A	*280*
Acenaphthylene	2500	2500000	*280*
Dimethylphthalate	N/A	N/A	*280*
2,6-Dinotrotoluene	N/A	N/A	*280*
Acenaphthene	N/A	N/A	*280*
3-Nitroaniline	N/A	N/A	*280*
2,4-Dinitrophenol	N/A	N/A	*560*
Dibenzofuran	N/A	N/A	*280*
2,4-Dinitrotoluene	N/A	N/A	*280*
4-Nitrophenol	N/A	N/A	*280*
Fluorene	2500	2500000	*280*
4-Chlorphenyl-phenylether	N/A	N/A	*280*
Diethylphthalate	N/A	N/A	*280*
4-Nitroaniline	N/A	N/A	*280*
4,6-Dinitro-2-methylphenol	N/A	N/A	*280*
n-Nitrosodiphenylamine	N/A	N/A	*280*
4-Bromphenyl-phenylether	N/A	N/A	*280*
Hexachlorobenzene	3.6	3600	*280*
Pentachlorophenol	48	48000	*280*
Phenanthrene	2500	2500000	*280*
Anthracene	2500	2500000	*280*
Di-n-butyl phthalate	2500	2500000	*280*
Fluoranthene	2500	2500000	*280*
Pyrene	2500	2500000	*280*
Butyl benzyl phthalate	2500	2500000	*280*
3,3'-Dichlorobenzidine	N/A	N/A	*280*
Carbazole	N/A	N/A	*280*
Benz[a]anthracene	7.8	7800	*280*
Chrysene	N/A	N/A	*280*
bis(2-ethyl hexyl)phthalate	410	410000	*280*
Di-n-octyl phthalate	2500	2500000	*280*
Benzo[b]fluoranthene	7.8	7800	*280*
Benzo[k]fluoranthene	78	78000	*280*
Benzo[a]pyrene	1	1000	*280*
Indeno[1,2,3-cd]pyrene	N/A	N/A	*280*
Dibenz[a,h]anthracene	N/A	N/A	*280*
Benzo[g,h,I]perylene	N/A	N/A	*280*

Notes:
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· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-28
Building A-85 CSA Bunker Concrete Waste Data Summary - PCBs
Site: Building A-85 CSA, SUBASENLON

PCB's	Ind/Comm (mg/kg)	Adjusted Limits (ug/kg)	CP 03/08/01
Aroclor 1016	10	10000	***28***
Aroclor 1221	10	10000	***28***
Aroclor 1232	10	10000	***28***
Aroclor 1242	10	10000	***28***
Aroclor 1248	10	10000	***28***
Aroclor 1254	10	10000	***28***
Aroclor 1260	10	10000	***28***

Notes:
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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-29
Contaminated Soil Waste Stockpile Data Summary - Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	SP1 03/01/01	SP1-A 03/21/01	SP2 03/01/01	SP2-A 03/21/01	SP3 03/01/01	SP3-A 03/21/01	SP4-A 03/21/01	SP5-A 03/26/01
Arsenic	**10**	**10**	2.6	-	28	-	20	-	-	1.4
Barium	**140000**	**200**	20	-	35	-	32	-	-	35
Cadmium	**1000**	**1**	***0.036***	-	0.57	-	0.25	-	-	0.04
Chromium	**100**	**10**	10	-	11	-	10	-	-	9.5
Copper	**76000**	**260**	-	-	-	-	-	-	-	-
Lead Extractable		**-**	***200***	-	2400	-	4000	-	-	-
Lead Total	**1000**	**3**	5.3	-	210	-	580	-	-	8.1
Mercury	**610**	**0.4**	***0.012***	-	0.98	-	0.085	-	-	0.022
Nickel	**7500**	**20**	-	-	-	-	-	-	-	-
Selenium	**10000**	**10**	0.23	-	0.25	-	0.17	-	-	***0.16***
Silver	**10000**	**7.2**	0.057	-	0.082	-	0.11	-	-	0.048
Zinc	**610000**	**1000**	-	-	-	-	-	-	-	-

Notes:
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm) concentrations.

Table 3-29
Contaminated Soil Waste Stockpile Data Summary - Metals
Site: Building A-85 CSA, SUBASENLON

Metal	Limits Ind/Com (mg/kg)	GB PM Criteria X 20	SP6-A 03/26/01	SP7-A 04/02/01	SP8-A 04/02/01
Arsenic	**10**	**10**	1.5	25	24
Barium	**140000**	**200**	49	44	38
Cadmium	**1000**	**1**	0.059	0.11	0.11
Chromium	**100**	**10**	13	12	13
Copper	**76000**	**260**	-	-	-
Lead Extractable		**-**	-	-	-
Lead Total	**1000**	**3**	16	15	11
Mercury	**610**	**0.4**	0.064	0.017	0.022
Nickel	**7500**	**20**	-	-	-
Selenium	**10000**	**10**	***0.16***	***0.2***	0.29
Silver	**10000**	**7.2**	***0.032***	***0.033***	***0.046***
Zinc	**610000**	**1000**	-	-	-

Notes:
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm) concentrations.

Table 3-30
Contaminated Soil Waste Stockpile Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Limits Ind/Com (mg/Kg)	Adjusted Limits (ug/kg)	SP1 03/01/01	SP1-A 03/21/01	SP2 03/01/01	SP2-A 03/21/01
Dichlorodifluoromethane	-	-	***2.7***	-	***2.2***	-
Chloromethane	-	-	***2.7***	-	***2.2***	-
Vinyl chloride	3	3000	***2.7***	-	***2.2***	-
Bromomethane	-	-	***2.7***	-	***2.2***	-
Chloroethane	-	-	***2.7***	-	***2.2***	-
Trichlorofluoromethane	-	-	***2.7***	-	***2.2***	-
Acetone	1000	1000000	32 B	-	35 B	-
1,1-Dichloroethene	9.5	95000	***2.7***	-	***2.2***	-
Carbon disulfide	-	-	***2.7***	-	***2.2***	-
Methylene chloride	760	760000	5.7 JB	-	4.1 JB	-
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.7***	-	***2.2***	-
trans-1,2-Dichloroethene	1000	1000000	***2.7***	-	***2.2***	-
1,1-Dichloroethane	1000	1000000	***2.7***	-	***2.2***	-
Vinyl acetate	-	-	***2.7***	-	***2.2***	-
2-Butanone (MEK)	1000	1000000	***2.7***	-	***2.2***	-
cis-1,2-Dichloroethene	1000	1000000	***2.7***	-	***2.2***	-
2,2-Dichloropropanone	-	-	***2.7***	-	***2.2***	-
Chloroform	940	940000	***2.7***	-	***2.2***	-
1,1,1-Trichloroethane	1000	1000000	***2.7***	-	***2.2***	-
1,1-Dichloropropene	-	-	***2.7***	-	***2.2***	-
Carbon tetrachloride	44	44000	***2.7***	-	***2.2***	-
Benzene	200	200000	***2.7***	-	***2.2***	-
1,2-Dichloroethane	1000	1000000	***2.7***	-	***2.2***	-
Trichloroethene	520	520000	***2.7***	-	***2.2***	-
1,2-Dichloropropane	84	84000	***2.7***	-	***2.2***	-
Dibromomethane	-	-	***2.7***	-	***2.2***	-
Bromodichloromethane	-	-	***2.7***	-	***2.2***	-
2-Chloroethylvinyl ether	-	-	***2.7***	-	***2.2***	-
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.7***	-	***2.2***	-
cis-1,3-Dichloropropene	32	32000	***2.7***	-	***2.2***	-
Toluene	1000	1000000	***2.7***	-	***2.2***	-
trans-1,3-Dichlororopene	32	32000	***2.7***	-	***2.2***	-
1,1,2-Trichloroethane	100	100000	***2.7***	-	***2.2***	-
2-Hexanone	-	-	***2.7***	-	***2.2***	-
Tetrachloroethene	520	520000	***2.7***	-	***2.2***	-
1,3-Dichloropropane	-	-	***2.7***	-	***2.2***	-
Dibromochloromethane	-	-	***2.7***	-	***2.2***	-
1,2-Dibromomethane	-	-	***2.7***	-	***2.2***	-
Chlorobenzene	1000	1000000	***2.7***	-	***2.2***	-
1,1,1,2-Tetrachloroethane	220	220000	***2.7***	-	***2.2***	-
Ethylbenzene	1000	1000000	***2.7***	-	***2.2***	-
p/m-Xylene	1000	1000000	***5.3***	-	***4.4***	-
o-Xylene	1000	1000000	***2.7***	-	***2.2***	-
Styrene	1000	1000000	***2.7***	-	***2.2***	-
Bromoform	720	720000	***2.7***	-	***2.2***	-
1,1,2,2-Tetrachloroethane	220	220000	***2.7***	-	***2.2***	-
Bromobenzene	-	-	***2.7***	-	***2.2***	-
1,2,3-Trichloropropane	-	-	***2.7***	-	***2.2***	-
n-Propylbenzene	-	-	***2.7***	-	***2.2***	-
2-Chlorotoluene	-	-	***2.7***	-	***2.2***	-
1,3,5-Trimethylbenzene	-	-	***2.7***	-	***2.2***	-
4-Chlorotoluene	-	-	***2.7***	-	***2.2***	-
tert-Butylbenzene	-	-	***2.7***	-	***2.2***	-
1,2,4-Trimethylbenzene	-	-	***2.7***	-	***2.2***	-
sec-Butylbenzene	-	-	***2.7***	-	***2.2***	-
1,3-Dichlorobenzene	1000	1000000	***2.7***	-	***2.2***	-
p-Isopropyltoluene	-	-	***2.7***	-	***2.2***	-
1,4-Dichlorobenzene	240	240000	***2.7***	-	***2.2***	-
n-Butylbenzene	-	-	***2.7***	-	***2.2***	-
1,2-Dichlorobenzene	1000	1000000	***2.7***	-	***2.2***	-
1,2-Dibromo-3-chloropropane	-	-	***2.7***	-	***2.2***	-
1,2,4-Trichlorobenzene	-	-	***2.7***	-	***2.2***	-
Hexachlorobutadiene	-	-	***2.7***	-	***2.2***	-
Naphthalene	-	-	18	-	8.1	-
1,2,3-Trichlorobenzene	-	-	***2.7***	-	***2.2***	-

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All data presented in ug/kg (ppb) concentrations.

Table 3-30
Contaminated Soil Waste Stockpile Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Limits Ind/Com (mg/Kg)	Adjusted Limits (ug/kg)	SP3 03/01/01	SP3-A 03/21/01	SP4-A 03/21/01	SP5-A 03/26/01
Dichlorodifluoromethane	-	-	***2.3***	-	-	***2.1***
Chloromethane	-	-	***2.3***	-	-	***2.1***
Vinyl chloride	3	3000	***2.3***	-	-	***2.1***
Bromomethane	-	-	***2.3***	-	-	***2.1***
Chloroethane	-	-	***2.3***	-	-	***2.1***
Trichlorofluoromethane	-	-	***2.3***	-	-	***2.1***
Acetone	1000	1000000	41 B	-	-	7.7
1,1-Dichloroethene	9.5	95000	***2.3***	-	-	***2.1***
Carbon disulfide	-	-	***2.3***	-	-	***2.1***
Methylene chloride	760	760000	4.2 JB	-	-	2.6 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***2.3***	-	-	***2.1***
trans-1,2-Dichloroethene	1000	1000000	***2.3***	-	-	***2.1***
1,1-Dichloroethane	1000	1000000	***2.3***	-	-	***2.1***
Vinyl acetate	-	-	***2.3***	-	-	***2.1***
2-Butanone (MEK)	1000	1000000	***2.3***	-	-	***2.1***
cis-1,2-Dichloroethene	1000	1000000	***2.3***	-	-	***2.1***
2,2-Dichloropropanone	-	-	***2.3***	-	-	***2.1***
Chloroform	940	940000	***2.3***	-	-	***2.1***
1,1,1-Trichloroethane	1000	1000000	***2.3***	-	-	***2.1***
1,1-Dichloropropene	-	-	***2.3***	-	-	***2.1***
Carbon tetrachloride	44	44000	***2.3***	-	-	***2.1***
Benzene	200	200000	***2.3***	-	-	***2.1***
1,2-Dichloroethane	1000	1000000	***2.3***	-	-	***2.1***
Trichloroethene	520	520000	***2.3***	-	-	***2.1***
1,2-Dichloropropane	84	84000	***2.3***	-	-	***2.1***
Dibromomethane	-	-	***2.3***	-	-	***2.1***
Bromodichloromethane	-	-	***2.3***	-	-	***2.1***
2-Chloroethylvinyl ether	-	-	***2.3***	-	-	***2.1***
Methyl isobutyl ketone (MIBK)	1000	1000000	***2.3***	-	-	***2.1***
cis-1,3-Dichloropropene	32	32000	***2.3***	-	-	***2.1***
Toluene	1000	1000000	***2.3***	-	-	***2.1***
trans-1,3-Dichlororopene	32	32000	***2.3***	-	-	***2.1***
1,1,2-Trichloroethane	100	100000	***2.3***	-	-	***2.1***
2-Hexanone	-	-	***2.3***	-	-	***2.1***
Tetrachloroethene	520	520000	***2.3***	-	-	***2.1***
1,3-Dichloropropane	-	-	***2.3***	-	-	***2.1***
Dibromochloromethane	-	-	***2.3***	-	-	***2.1***
1,2-Dibromomethane	-	-	***2.3***	-	-	***2.1***
Chlorobenzene	1000	1000000	***2.3***	-	-	***2.1***
1,1,1,2-Tetrachloroethane	220	220000	***2.3***	-	-	***2.1***
Ethylbenzene	1000	1000000	***2.3***	-	-	***2.1***
p/m-Xylene	1000	1000000	***4.6***	-	-	*2.1*
o-Xylene	1000	1000000	***2.3***	-	-	*1.1*
Styrene	1000	1000000	***2.3***	-	-	***2.1***
Bromoform	720	720000	***2.3***	-	-	***2.1***
1,1,2,2-Tetrachloroethane	220	220000	***2.3***	-	-	***2.1***
Bromobenzene	-	-	***2.3***	-	-	***2.1***
1,2,3-Trichloropropane	-	-	***2.3***	-	-	***2.1***
n-Propylbenzene	-	-	***2.3***	-	-	***2.1***
2-Chlorotoluene	-	-	***2.3***	-	-	***2.1***
1,3,5-Trimethylbenzene	-	-	***2.3***	-	-	***2.1***
4-Chlorotoluene	-	-	***2.3***	-	-	***2.1***
tert-Butylbenzene	-	-	***2.3***	-	-	***2.1***
1,2,4-Trimethylbenzene	-	-	***2.3***	-	-	***2.1***
sec-Butylbenzene	-	-	***2.3***	-	-	***2.1***
1,3-Dichlorobenzene	1000	1000000	***2.3***	-	-	***2.1***
p-Isopropyltoluene	-	-	***2.3***	-	-	***2.1***
1,4-Dichlorobenzene	240	240000	***2.3***	-	-	***2.1***
n-Butylbenzene	-	-	***2.3***	-	-	***2.1***
1,2-Dichlorobenzene	1000	1000000	***2.3***	-	-	***2.1***
1,2-Dibromo-3-chloropropane	-	-	***2.3***	-	-	***2.1***
1,2,4-Trichlorobenzene	-	-	***2.3***	-	-	***2.1***
Hexachlorobutadiene	-	-	***2.3***	-	-	***2.1***
Naphthalene	-	-	12	-	-	***2.1***
1,2,3-Trichlorobenzene	-	-	***2.3***	-	-	***2.1***

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All data presented in ug/kg (ppb) concentrations.

Table 3-30
Contaminated Soil Waste Stockpile Data Summary - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Limits Ind/Com (mg/Kg)	Adjusted Limits (ug/kg)	SP6-A 03/26/01	SP7-A 04/02/01	SP8-A 04/02/01
Dichlorodifluoromethane	-	-	***1.7***	***2.3***	***2.3***
Chloromethane	-	-	***1.7***	***2.3***	***2.3***
Vinyl chloride	3	3000	***1.7***	***2.3***	***2.3***
Bromomethane	-	-	***1.7***	***2.3***	***2.3***
Chloroethane	-	-	***1.7***	***2.3***	***2.3***
Trichlorofluoromethane	-	-	***1.7***	***2.3***	***2.3***
Acetone	1000	1000000	***1.7***	30	70
1,1-Dichloroethene	9.5	95000	***1.7***	***2.3***	***2.3***
Carbon disulfide	-	-	***1.7***	***2.3***	***2.3***
Methylene chloride	760	760000	6.3	2 JB	2.3 JB
Methyl tert-butyl ether(MTBE)	1000	1000000	***1.7***	***2.3***	***2.3***
trans-1,2-Dichloroethene	1000	1000000	***1.7***	***2.3***	***2.3***
1,1-Dichloroethane	1000	1000000	1.5 JB	***2.3***	***2.3***
Vinyl acetate	-	-	***1.7***	***2.3***	***2.3***
2-Butanone (MEK)	1000	1000000	***1.7***	***2.3***	7.3
cis-1,2-Dichloroethene	1000	1000000	***1.7***	***2.3***	***2.3***
2,2-Dichloropropanone	-	-	***1.7***	***2.3***	***2.3***
Chloroform	940	940000	***1.7***	***2.3***	***2.3***
1,1,1-Trichloroethane	1000	1000000	***1.7***	***2.3***	***2.3***
1,1-Dichloropropene	-	-	***1.7***	***2.3***	***2.3***
Carbon tetrachloride	44	44000	***1.7***	***2.3***	***2.3***
Benzene	200	200000	***1.7***	***2.3***	***2.3***
1,2-Dichloroethane	1000	1000000	***1.7***	***2.3***	***2.3***
Trichloroethene	520	520000	***1.7***	***2.3***	***2.3***
1,2-Dichloropropane	84	84000	***1.7***	***2.3***	***2.3***
Dibromomethane	-	-	***1.7***	***2.3***	***2.3***
Bromodichloromethane	-	-	***1.7***	***2.3***	***2.3***
2-Chloroethylvinyl ether	-	-	***1.7***	***2.3***	***2.3***
Methyl isobutyl ketone (MIBK)	1000	1000000	***1.7***	***2.3***	***2.3***
cis-1,3-Dichloropropene	32	32000	***1.7***	***2.3***	***2.3***
Toluene	1000	1000000	***1.7***	***2.3***	***2.3***
trans-1,3-Dichlororopene	32	32000	***1.7***	***2.3***	***2.3***
1,1,2-Trichloroethane	100	100000	***1.7***	***2.3***	***2.3***
2-Hexanone	-	-	***1.7***	***2.3***	***2.3***
Tetrachloroethene	520	520000	***1.7***	***2.3***	***2.3***
1,3-Dichloropropane	-	-	***1.7***	***2.3***	***2.3***
Dibromochloromethane	-	-	***1.7***	***2.3***	***2.3***
1,2-Dibromomethane	-	-	***1.7***	***2.3***	***2.3***
Chlorobenzene	1000	1000000	***1.7***	***2.3***	***2.3***
1,1,1,2-Tetrachloroethane	220	220000	***1.7***	***2.3***	***2.3***
Ethylbenzene	1000	1000000	***1.7***	***2.3***	***2.3***
p/m-Xylene	1000	1000000	***3.3***	***4.7***	***4.6***
o-Xylene	1000	1000000	***1.7***	***2.3***	***2.3***
Styrene	1000	1000000	***1.7***	***2.3***	***2.3***
Bromoform	720	720000	***1.7***	***2.3***	***2.3***
1,1,2,2-Tetrachloroethane	220	220000	***1.7***	***2.3***	***2.3***
Bromobenzene	-	-	***1.7***	***2.3***	***2.3***
1,2,3-Trichloropropane	-	-	***1.7***	***2.3***	***2.3***
n-Propylbenzene	-	-	***1.7***	***2.3***	***2.3***
2-Chlorotoluene	-	-	***1.7***	***2.3***	***2.3***
1,3,5-Trimethylbenzene	-	-	***1.7***	***2.3***	***2.3***
4-Chlorotoluene	-	-	***1.7***	***2.3***	***2.3***
tert-Butylbenzene	-	-	***1.7***	***2.3***	***2.3***
1,2,4-Trimethylbenzene	-	-	***1.7***	***2.3***	***2.3***
sec-Butylbenzene	-	-	***1.7***	***2.3***	***2.3***
1,3-Dichlorobenzene	1000	1000000	***1.7***	***2.3***	***2.3***
p-Isopropyltoluene	-	-	***1.7***	***2.3***	***2.3***
1,4-Dichlorobenzene	240	240000	***1.7***	***2.3***	***2.3***
n-Butylbenzene	-	-	***1.7***	***2.3***	***2.3***
1,2-Dichlorobenzene	1000	1000000	***1.7***	***2.3***	***2.3***
1,2-Dibromo-3-chloropropane	-	-	***1.7***	***2.3***	***2.3***
1,2,4-Trichlorobenzene	-	-	***1.7***	***2.3***	***2.3***
Hexachlorobutadiene	-	-	***1.7***	***2.3***	***2.3***
Naphthalene	-	-	***1.7***	***2.3***	***2.3***
1,2,3-Trichlorobenzene	-	-	***1.7***	***2.3***	***2.3***

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Table 3-31
Contaminated Soil Waste Stockpile Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	SP1 03/01/01	SP1-A 03/21/01	SP2 03/01/01	SP2-A 03/21/01	SP3 03/01/01
bis(2 Chloroethyl)ether	5.2	5200	1100	-	540	-	530
Phenol	2500	2500000	1100	-	540	-	530
2-Chlorophenol	2500	2500000	1100	-	540	-	530
1,3-Dichlorobenzene	1000	1000000	1100	-	540	-	530
1,4-Dichlorobenzene	240	240000	1100	-	540	-	530
1,2-Dichlorobenzene	1000	1000000	1100	-	540	-	530
Benzyl alcohol	N/A	N/A	1100	-	540	-	530
bis(2-chloroisopropyl)ether	82	82000	1100	-	540	-	530
2-Methylphenol	N/A	N/A	1100	-	540	-	530
Hexachloroethane	410	410000	1100	-	540	-	530
N-Nitroso-di-n-propylamine	N/A	N/A	1100	-	540	-	530
4-Methylphenol	N/A	N/A	1100	-	540	-	530
Nitrobenzene	N/A	N/A	1100	-	540	-	530
Isophorone	N/A	N/A	1100	-	540	-	530
2-Nitrophenol	N/A	N/A	1100	-	540	-	530
2,4-Dimethylphenol	N/A	N/A	1100	-	540	-	530
Benzoic acid	N/A	N/A	2300	-	1100	-	1100
bis(2-chloroethoxy)methane	N/A	N/A	1100	-	540	-	530
2,4-Dichlorophenol	2500	2500000	1100	-	540	-	530
1,2,4-Trichlorobenzene	N/A	N/A	1100	-	540	-	530
Napthalene	2500	2500000	930	-	190	-	300
4-Chloroaniline	N/A	N/A	1100	-	540	-	530
Hexachlorobutadiene	N/A	N/A	1100	-	540	-	530
4-Chloro-3-methylphenol	N/A	N/A	1100	-	540	-	530
2-Methylnaphthalene	N/A	N/A	270	-	120	-	180
Hexachlorocyclopentadiene	N/A	N/A	1100	-	540	-	530
2,4,6-Trichlorophenol	N/A	N/A	1100	-	540	-	530
2,4,5-Trichlorophenol	N/A	N/A	2300	-	1100	-	1100
2-Chloronapthalene	N/A	N/A	1100	-	540	-	530
2-Nitroaniline	N/A	N/A	2300	-	1100	-	1100
Acenaphthylene	2500	2500000	2000	-	2300	-	2600
Dimethylphthalate	N/A	N/A	1100	-	540	-	530
2,6-Dinotrotoluene	N/A	N/A	1100	-	540	-	530
Acenaphthene	N/A	N/A	660	-	130	-	190
3-Nitroaniline	N/A	N/A	2300	-	1100	-	1100
2,4-Dinitrophenol	N/A	N/A	2300	-	1100	-	1100
Dibenzofuran	N/A	N/A	440	-	540	-	140
2,4-Dinitrotoluene	N/A	N/A	1100	-	540	-	530
4-Nitrophenol	N/A	N/A	2300	-	1100	-	1100
Fluorene	2500	2500000	710	-	170	-	220
4-Chlorphenyl-phenylether	N/A	N/A	1100	-	540	-	530
Diethylphthalate	N/A	N/A	1100	-	540	-	530
4-Nitroaniline	N/A	N/A	2300	-	1100	-	1100
4,6-Dinitro-2-methylphenol	N/A	N/A	2300	-	1100	-	1100
n-Nitrosodiphenylamine	N/A	N/A	1100	-	540	-	530
4-Bromphenyl-phenylether	N/A	N/A	1100	-	540	-	530
Hexachlorobenzene	3.6	3600	1100	-	540	-	530
Pentachlorophenol	48	48000	2300	-	1100	-	1100
Phenanthrene	2500	2500000	10000	-	1900	-	3500
Anthracene	2500	2500000	2600	-	1200	-	1600
Di-n-butyl phthalate	2500	2500000	1100	-	540	-	530
Fluoranthene	2500	2500000	25000	-	5700	-	9900
Pyrene	2500	2500000	22000	-	8600	-	13000
Butyl benzyl phthalate	2500	2500000	1100	-	540	-	530
3,3'-Dichlorobenzidine	N/A	N/A	1100	-	540	-	530
Carbazole	N/A	N/A	1900	-	290	-	530
Benz[a]anthracene	7.8	7800	11000	-	4500	-	6400
Chrysene	N/A	N/A	14000	-	5300	-	7600
bis(2-ethyl hexyl)phthalate	410	410000	1100	-	540	-	530
Di-n-octyl phthalate	2500	2500000	1100	-	540	-	530
Benzo[b]fluoranthene	7.8	7800	10000	-	6300	-	9500
Benzo[k]fluoranthene	78	78000	10000	-	7000	-	9400
Benzo[a]pyrene	1	1000	8500	-	6500	-	8100
Indeno[1,2,3-cd]pyrene	N/A	N/A	3600	-	1600	-	1800
Dibenz[a,h]anthracene	N/A	N/A	1200	-	570	-	680
Benzo[g,h,l]perylene	N/A	N/A	3200	-	1400	-	1700

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Table 3-31
Contaminated Soil Waste Stockpile Data Summary - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	SP3-A 03/21/01	SP4-A 03/21/01	SP5-A 03/26/01	SP6-A 03/26/01	SP7-A 04/02/01	SP8-A 04/02/01
bis(2 Chloroethyl)ether	5.2	5200	-	-	260	260	290	290
Phenol	2500	2500000	-	-	260	260	290	290
2-Chlorophenol	2500	2500000	-	-	260	260	290	290
1,3-Dichlorobenzene	1000	1000000	-	-	260	260	290	290
1,4-Dichlorobenzene	240	240000	-	-	260	260	290	290
1,2-Dichlorobenzene	1000	1000000	-	-	260	260	290	290
Benzyl alcohol	N/A	N/A	-	-	260	260	290	290
bis(2-chloroisopropyl)ether	82	82000	-	-	260	260	290	290
2-Methylphenol	N/A	N/A	-	-	260	260	290	290
Hexachloroethane	410	410000	-	-	260	260	290	290
N-Nitroso-di-n-propylamine	N/A	N/A	-	-	260	260	290	290
4-Methylphenol	N/A	N/A	-	-	260	260	290	290
Nitrobenzene	N/A	N/A	-	-	260	260	290	290
Isophorone	N/A	N/A	-	-	260	260	290	290
2-Nitrophenol	N/A	N/A	-	-	260	260	290	290
2,4-Dimethylphenol	N/A	N/A	-	-	260	260	290	290
Benzoic acid	N/A	N/A	-	-	260	260	290	290
bis(2-chloroethoxy)methane	N/A	N/A	-	-	260	260	290	290
2,4-Dichlorophenol	2500	2500000	-	-	260	260	290	290
1,2,4-Trichlorobenzene	N/A	N/A	-	-	260	260	290	290
Napthalene	2500	2500000	-	-	260	260	55	290
4-Chloroaniline	N/A	N/A	-	-	260	260	290	290
Hexachlorobutadiene	N/A	N/A	-	-	260	260	290	290
4-Chloro-3-methylphenol	N/A	N/A	-	-	260	260	290	290
2-Methylnaphthalene	N/A	N/A	-	-	260	260	290	290
Hexachlorocyclopentadiene	N/A	N/A	-	-	260	260	290	290
2,4,6-Trichlorophenol	N/A	N/A	-	-	260	260	290	290
2,4,5-Trichlorophenol	N/A	N/A	-	-	530	530	580	580
2-Chloronapthalene	N/A	N/A	-	-	260	260	290	290
2-Nitroaniline	N/A	N/A	-	-	530	530	580	580
Acenaphthylene	2500	2500000	-	-	260	260	270	84
Dimethylphthalate	N/A	N/A	-	-	260	260	290	290
2,6-Dinotrotoluene	N/A	N/A	-	-	260	260	290	290
Acenaphthene	N/A	N/A	-	-	260	260	170	290
3-Nitroaniline	N/A	N/A	-	-	530	530	580	580
2,4-Dinitrophenol	N/A	N/A	-	-	530	530	580	580
Dibenzofuran	N/A	N/A	-	-	260	260	120	290
2,4-Dinitrotoluene	N/A	N/A	-	-	260	260	290	290
4-Nitrophenol	N/A	N/A	-	-	530	530	580	580
Fluorene	2500	2500000	-	-	260	260	210	290
4-Chlorphenyl-phenylether	N/A	N/A	-	-	260	260	290	290
Diethylphthalate	N/A	N/A	-	-	260	260	290	290
4-Nitroaniline	N/A	N/A	-	-	530	530	580	580
4,6-Dinitro-2-methylphenol	N/A	N/A	-	-	530	530	580	580
n-Nitrosodiphenylamine	N/A	N/A	-	-	260	260	290	290
4-Bromphenyl-phenylether	N/A	N/A	-	-	260	260	290	290
Hexachlorobenzene	3.6	3600	-	-	260	260	290	290
Pentachlorophenol	48	48000	-	-	530	530	580	580
Phenanthrene	2500	2500000	-	-	68	170	2700	250
Anthracene	2500	2500000	-	-	260	50	600	79
Di-n-butyl phthalate	2500	2500000	-	-	260	260	290	290
Fluoranthene	2500	2500000	-	-	120	310	5000	600
Pyrene	2500	2500000	-	-	120	280	4500	700
Butyl benzyl phthalate	2500	2500000	-	-	260	260	290	290
3,3'-Dichlorobenzidine	N/A	N/A	-	-	260	260	290	290
Carbazole	N/A	N/A	-	-	260	260	280	290
Benz[a]anthracene	7.8	7800	-	-	65	150	2100	360
Chrysene	N/A	N/A	-	-	79	260	2300	430
bis(2-ethyl hexyl)phthalate	410	410000	-	-	260	67	290	290
Di-n-octyl phthalate	2500	2500000	-	-	260	260	290	290
Benzo[b]fluoranthene	7.8	7800	-	-	57	170	2200	400
Benzo[k]fluoranthene	78	78000	-	-	51	120	940	210
Benzo[a]pyrene	1	1000	-	-	61	150	1800	340
Indeno[1,2,3-cd]pyrene	N/A	N/A	-	-	260	100	910	150
Dibenz[a,h]anthracene	N/A	N/A	-	-	260	260	220	290
Benzo[g,h,l]perylene	N/A	N/A	-	-	260	110	890	150

Notes:
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-32
Contaminated Soil Waste Stockpile Data Summary - Hazard
Site: Building A-85 CSA, SUBASENLON

Hazardous Material	**SP1 03/01/01**	**SP1-A 03/21/01**	**SP2 03/01/01**	**SP2-A 03/21/01**	**SP3 03/01/01**	**SP3-A 03/21/01**	**SP4-A 03/21/01**	**SP5-A 03/26/01**	**SP6-A 03/26/01**	**SP7-A 04/02/01**	**SP8-A 04/02/01**
Corrosivity, pH (standard units)	6.4	-	6.5	-	6.7	-	-	6.6	7	7.4	5.7
Ignitability, F	>210	-	>210	-	>210	-	-	>210	>210	>210	>210
Reactive Cyanide (mg/kg)	***10***	-	***11***	-	**10**	-	-	***10***	***10***	***10***	***10***
Reactive Sulfide (mg/kg)	***10***	-	***10***	-	**10**	-	-	***10***	***10***	***10***	***10***

Notes:
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· Regular font numerical data represents actual levels.

Table 3-33
Contaminated Soil Waste Stockpile Data Summary - PCBs
Site: Building A-85 CSA, SUBASENLON

PCB's	Ind/Comm (mg/kg)	Adjusted Limits (ug/kg)	**SP1 03/01/01**	**SP1-A 03/21/01**	**SP2 03/01/01**	**SP2-A 03/21/01**	**SP3 03/01/01**	**SP3-A 03/21/01**	**SP4-A 03/21/01**	**SP5-A 03/26/01**	**SP6-A 03/26/01**	**SP7-A 04/02/01**	**SP8-A 04/02/01**
Aroclor 1016	10	10000	***28***	-	***27***	-	***26***	-	-	***26***	***27***	***29***	***29***
Aroclor 1221	10	10000	***28***	-	***27***	-	***26***	-	-	***26***	***27***	***29***	***29***
Aroclor 1232	10	10000	***28***	-	***27***	-	***26***	-	-	***26***	***27***	***29***	***29***
Aroclor 1242	10	10000	***28***	-	***27***	-	***26***	-	-	***26***	***27***	***29***	***29***
Aroclor 1248	10	10000	***28***	-	***27***	-	***26***	-	-	***26***	***27***	***29***	***29***
Aroclor 1254	10	10000	***28***	-	***27***	-	***26***	-	-	***26***	41	***29***	***29***
Aroclor 1260	10	10000	***28***	-	61 P	-	100	-	-	***26***	***27***	***29***	***29***

Notes:
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
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· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb) concentrations.

Table 3-34
Contaminated Soil Waste Stockpile Data Summary - TPH
Site: Building A-85 CSA, SUBASENLON

TPH	Limits Ind/Com (mg/Kg)	SP1 03/01/01	SP1-A 03/21/01	SP2 03/01/01	SP2-A 03/21/01	SP3 03/01/01	SP3-A 03/21/01	SP4-A 03/21/01	SP5-A 03/26/01	SP6-A 03/26/01	SP7-A 04/02/01	SP8-A 04/02/01
	2500	-	150	-	390	-	80	260	-	-	140	100

Notes:
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm) concentrations.

Table 3-35
Backfill Analyses Data - VOCs
Site: Building A-85 CSA, SUBASENLON

VOCs	Limits Ind/Com (mg/Kg)	Adjusted Limits (ug/kg)	BF 03/01/01	BF-1 03/22/01	BF-2 03/22/01	BF-3 03/22/01	BF-4 03/22/01	BF-5 03/22/01
Dichlorodifluoromethane	-	-	***2***	-	-	-	-	-
Chloromethane	-	-	***2***	-	-	-	-	-
Vinyl chloride	3	3000	***2***	-	-	-	-	-
Bromomethane	-	-	***2***	-	-	-	-	-
Chloroethane	-	-	***2***	-	-	-	-	-
Trichlorofluoromethane	-	-	***2***	-	-	-	-	-
Acetone	1000	1000000	26 B	-	-	-	-	-
1,1-Dichloroethene	9.5	95000	***2***	-	-	-	-	-
Carbon disulfide	-	-	***2***	-	-	-	-	-
Methylene chloride	760	760000	4.3 JB	-	-	-	-	-
Methyl tert-butyl ether(MTBE)	1000	1000000	***2***	-	-	-	-	-
trans-1,2-Dichloroethene	1000	1000000	***2***	-	-	-	-	-
1,1-Dichloroethane	1000	1000000	***2***	-	-	-	-	-
Vinyl acetate	-	-	***2***	-	-	-	-	-
2-Butanone (MEK)	1000	1000000	***2***	-	-	-	-	-
cis-1,2-Dichloroethene	1000	1000000	***2***	-	-	-	-	-
2,2-Dichloropropanone	-	-	***2***	-	-	-	-	-
Chloroform	940	940000	***2***	-	-	-	-	-
1,1,1-Trichloroethane	1000	1000000	***2***	-	-	-	-	-
1,1-Dichloropropene	-	-	***2***	-	-	-	-	-
Carbon tetrachloride	44	44000	***2***	-	-	-	-	-
Benzene	200	200000	***2***	-	-	-	-	-
1,2-Dichloroethane	1000	1000000	***2***	-	-	-	-	-
Trichloroethene	520	520000	***2***	-	-	-	-	-
1,2-Dichloropropane	84	84000	***2***	-	-	-	-	-
Dibromomethane	-	-	***2***	-	-	-	-	-
Bromodichloromethane	-	-	***2***	-	-	-	-	-
2-Chloroethylvinyl ether	-	-	***2***	-	-	-	-	-
Methyl isobutyl ketone (MIBK)	1000	1000000	***2***	-	-	-	-	-
cis-1,3-Dichloropropene	32	32000	***2***	-	-	-	-	-
Toluene	1000	1000000	***2***	-	-	-	-	-
trans-1,3-Dichlororopene	32	32000	***2***	-	-	-	-	-
1,1,2-Trichloroethane	100	100000	***2***	-	-	-	-	-
2-Hexanone	-	-	***2***	-	-	-	-	-
Tetrachloroethene	520	520000	***2***	-	-	-	-	-
1,3-Dichloropropane	-	-	***2***	-	-	-	-	-
Dibromochloromethane	-	-	***2***	-	-	-	-	-
1,2-Dibromomethane	-	-	***2***	-	-	-	-	-
Chlorobenzene	1000	1000000	***2***	-	-	-	-	-
1,1,1,2-Tetrachloroethane	220	220000	***2***	-	-	-	-	-
Ethylbenzene	1000	1000000	***2***	-	-	-	-	-
p/m-Xylene	1000	1000000	***3.9***	-	-	-	-	-
o-Xylene	1000	1000000	***2***	-	-	-	-	-
Styrene	1000	1000000	***2***	-	-	-	-	-
Bromoform	720	720000	***2***	-	-	-	-	-
1,1,2,2-Tetrachloroethane	220	220000	***2***	-	-	-	-	-
Bromobenzene	-	-	***2***	-	-	-	-	-
1,2,3-Trichloropropane	-	-	***2***	-	-	-	-	-
n-Propylbenzene	-	-	***2***	-	-	-	-	-
2-Chlorotoluene	-	-	***2***	-	-	-	-	-
1,3,5-Trimethylbenzene	-	-	***2***	-	-	-	-	-
4-Chlorotoluene	-	-	***2***	-	-	-	-	-
tert-Butylbenzene	-	-	***2***	-	-	-	-	-
1,2,4-Trimethylbenzene	-	-	***2***	-	-	-	-	-
sec-Butylbenzene	-	-	***2***	-	-	-	-	-
1,3-Dichlorobenzene	1000	1000000	***2***	-	-	-	-	-
p-Isopropyltoluene	-	-	***2***	-	-	-	-	-
1,4-Dichlorobenzene	240	240000	***2***	-	-	-	-	-
n-Butylbenzene	-	-	***2***	-	-	-	-	-
1,2-Dichlorobenzene	1000	1000000	***2***	-	-	-	-	-
1,2-Dibromo-3-chloropropane	-	-	***2***	-	-	-	-	-
1,2,4-Trichlorobenzene	-	-	***2***	-	-	-	-	-
Hexachlorobutadiene	-	-	***2***	-	-	-	-	-
Naphthalene	-	-	96	-	-	-	-	-
1,2,3-Trichlorobenzene	-	-	***2***	-	-	-	-	-

Notes:
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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
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· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb).

Table 3-36
Backfill Analyses Data - SVOCs
Site: Building A-85 CSA, SUBASENLON

Semi Vols	Limits Ind/Com (mg/kg)	Adjusted Limits (ug/kg)	BF 03/01/01	BF-1 03/22/01	BF-2 03/22/01	BF-3 03/22/01	BF-4 03/22/01	BF-5 03/22/01
bis(2 Chloroethyl)ether	5.2	5200	280	260	2700	2800	270	1100
Phenol	2500	2500000	280	260	2700	2800	270	1100
2-Chlorophenol	2500	2500000	280	260	2700	2800	270	1100
1,3-Dichlorobenzene	1000	1000000	280	260	2700	2800	270	1100
1,4-Dichlorobenzene	240	240000	280	260	2700	2800	270	1100
1,2-Dichlorobenzene	1000	1000000	280	260	2700	2800	270	1100
Benzyl alcohol	N/A	N/A	280	260	2700	2800	270	1100
bis(2-chloroisopropyl)ether	82	82000	280	260	2700	2800	270	1100
2-Methylphenol	N/A	N/A	280	260	2700	2800	270	1100
Hexachloroethane	410	410000	280	260	2700	2800	270	1100
N-Nitroso-di-n-propylamine	N/A	N/A	280	260	2700	2800	270	1100
4-Methylphenol	N/A	N/A	280	260	2700	2800	270	1100
Nitrobenzene	N/A	N/A	280	260	2700	2800	270	1100
Isophorone	N/A	N/A	280	260	2700	2800	270	1100
2-Nitrophenol	N/A	N/A	280	260	2700	2800	270	1100
2,4-Dimethylphenol	N/A	N/A	280	260	2700	2800	270	1100
Benzoic acid	N/A	N/A	550	260	2700	2800	270	1100
bis(2-chloroethoxy)methane	N/A	N/A	280	260	2700	2800	270	1100
2,4-Dichlorophenol	2500	2500000	280	260	2700	2800	270	1100
1,2,4-Trichlorobenzene	N/A	N/A	280	260	2700	2800	270	1100
Napthalene	2500	2500000	410	320	3400	5500	1400	1000
4-Chloroaniline	N/A	N/A	280	260	2700	2800	270	1100
Hexachlorobutadiene	N/A	N/A	280	260	2700	2800	270	1100
4-Chloro-3-methylphenol	N/A	N/A	280	260	2700	2800	270	1100
2-Methylnaphthalene	N/A	N/A	120	86	840	1400	390	270
Hexachlorocyclopentadiene	N/A	N/A	280	260	2700	2800	270	1100
2,4,6-Trichlorophenol	N/A	N/A	280	260	2700	2800	270	1100
2,4,5-Trichlorophenol	N/A	N/A	550	530	5400	5500	540	2200
2-Chloronapthalene	N/A	N/A	280	260	2700	2800	270	1100
2-Nitroaniline	N/A	N/A	550	530	5400	5500	540	2200
Acenaphthylene	2500	2500000	470	630	2700	790	350	1300
Dimethylphthalate	N/A	N/A	280	260	2700	2800	270	1100
2,6-Dinotrotoluene	N/A	N/A	280	260	2700	2800	270	1100
Acenaphthene	N/A	N/A	360	260	3600	7400	980	850
3-Nitroaniline	N/A	N/A	550	530	5400	5500	540	2200
2,4-Dinitrophenol	N/A	N/A	550	530	5400	5500	540	2200
Dibenzofuran	N/A	N/A	280	190	2400	3700	660	650
2,4-Dinitrotoluene	N/A	N/A	280	260	2700	2800	270	1100
4-Nitrophenol	N/A	N/A	550	530	5400	5500	540	2200
Fluorene	2500	2500000	350	290	3700	5700	940	900
4-Chlorphenyl-phenylether	N/A	N/A	280	260	2700	2800	270	1100
Diethylphthalate	N/A	N/A	280	260	2700	2800	270	1100
4-Nitroaniline	N/A	N/A	550	530	5400	5500	540	2200
4,6-Dinitro-2-methylphenol	N/A	N/A	550	530	5400	5500	540	2200
n-Nitrosodiphenylamine	N/A	N/A	280	260	2700	2800	270	1100
4-Bromphenyl-phenylether	N/A	N/A	280	260	2700	2800	270	1100
Hexachlorobenzene	3.6	3600	280	260	2700	2800	270	1100
Pentachlorophenol	48	48000	550	530	5400	5500	540	2200
Phenanthrene	2500	2500000	4000	3700	24000	36000	6600	8900
Anthracene	2500	2500000	900	920	6500	11000	1700	2200
Di-n-butyl phthalate	2500	2500000	280	260	2700	2800	270	1100
Fluoranthene	2500	2500000	6800	7500	25000	40000	7900	16000
Pyrene	2500	2500000	5800	7300	21000	35000	7200	16000
Butyl benzyl phthalate	2500	2500000	280	260	2700	2800	270	1100
3,3'-Dichlorobenzidine	N/A	N/A	280	260	2700	2800	270	1100
Carbazole	N/A	N/A	660	600	4000	6500	1300	1500
Benz[a]anthracene	7.8	7800	3000	3300	9800	17000	3600	7400
Chrysene	N/A	N/A	3400	3900	9700	17000	3600	8900
bis(2-ethyl hexyl)phthalate	410	410000	280	260	2700	2800	110	1100
Di-n-octyl phthalate	2500	2500000	280	260	2700	2800	270	1100
Benzo[b]fluoranthene	7.8	7800	2400	3700	8300	17000	3600	7700
Benzo[k]fluoranthene	78	78000	2500	2000	7100	10000	2400	5100
Benzo[a]pyrene	1	1000	2300	2600	8500	15000	2900	5800
Indeno[1,2,3-cd]pyrene	N/A	N/A	1000	1300	4700	8300	990	3400
Dibenz[a,h]anthracene	N/A	N/A	330	360	1200	2200	280	920
Benzo[g,h,I]perylene	N/A	N/A	1000	1100	4600	7600	770	3300

Notes:

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· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.

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· Regular font numerical data represents actual levels.

All data presented in ug/kg (ppb).

Table 3-37
Backfill Analyses Data - PCBs
Site: Building A-85 CSA, SUBASENLON

PCB's	Ind/Comm mg/kg	Adjusted Limits ug/Kg	**BF 03/01/01**	**BF-1 03/22/01**	**BF-2 03/22/01**	**BF-3 03/22/01**	**BF-4 03/22/01**	**BF-5 03/22/01**
Aroclor 1016	10	10000	***28***	-	-	-	-	-
Aroclor 1221	10	10000	***28***	-	-	-	-	-
Aroclor 1232	10	10000	***28***	-	-	-	-	-
Aroclor 1242	10	10000	***28***	-	-	-	-	-
Aroclor 1248	10	10000	***28***	-	-	-	-	-
Aroclor 1254	10	10000	***28***	-	-	-	-	-
Aroclor 1260	10	10000	***28***	-	-	-	-	-

Notes:
· Shaded cells represent exceedences of the CTDEP Industrial /Commercial Direct Exposure Criteria.
· Boxed cells represent exceedences of the CTDEP GB Pollutant Mobility Criteria.
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· Regular font numerical data represents actual levels.
All data presented in ug/kg (ppb).

Table 3-38
Backfill Analyses Data - TPH
Site: Building A-85 CSA, SUBASENLON

TPH	Limits Ind/Com (mg/Kg)	BF 03/01/01	BF-1 03/22/01	BF-2 03/22/01	BF-3 03/22/01	BF-4 03/22/01	BF-5 03/22/01
	2500	**25**	-	-	-	-	-

Notes:
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· Bold/Italic numerical data represents non-detect levels at the shown detection limit.
· Regular font numerical data represents actual levels.
All data presented in mg/kg (ppm).

Table 4-1
Waste Disposal Summary
Site: Building A-85 CSA RCRA Closure – SUBASENLON

Phase	Description	Quantity	Disposal Facility
Area 1 Excavated Soils	Non-hazardous soil	Approximately 751 tons	ESMI 67 International Drive Loudon, NH 03301
Area 2 Excavated Soils	Non-hazardous soil	Approximately 25 tons	ESMI 67 International Drive Loudon, NH 03301
Area 3 Excavated Soils	Non-hazardous soil	Approximately 476 tons	ESMI 67 International Drive Loudon, NH 03301
Shed Demolition Debris	Wood Debris	Approximately 21 tons	Galbo's Recycling Company 56 Miner Lane Waterford, CT 06385
Bunker Demolition Debris	Concrete Debris	Approximately 162 tons	Seymour's Sand & Stone. Inc. 34 Bozrah Street Bozrah, CT 06334
Site Demobilization*	Asphalt (Recycling)	Approximately 100 tons	Tilcon Connecticut, Inc. 909 Foxon Road P.O. Box 67 North Branford, CT 06471
Bunker Cover Soil (initial potential backfill)	Non-hazardous soil (daily landfill cover)	Approximately 397 tons	Crapo Hill Landfill 300 Samuel Barnett Blvd. New Bedford, MA 02745

* Documentation of receipt at facilities is included in Appendix G.

APPENDIX A

Photographs

Photograph 1
Wooden Storage Sheds and Asphalt Area

Photograph 2
Building A-85 Bunker

Photograph 3
Building A-85 Remote Removal of Bunker Doors

Photograph 4
Building A-85 Bunker-Removal of Exterior Walls

Photograph 5
Demolition of Bunker

Photograph 6
Building 545 - Silver Recovery Building

Photograph 7
Demolition of Building 545 - Silver Recovery Building

Photograph 8
Area 1-Removal of Asphalt

Photograph 9
Area 1 - Excavation

Photograph 10
Area 1 - Excavation

Photograph 11
Area 1 - Excavation

Photograph 12
Area 2 - Excavation

Photograph 13
Area 3 - Excavation

Photograph 14
Area 3 - Excavation

APPENDIX B

SUBASENLON Permit to Excavate

REQUEST FOR PERMIT TO EXCAVATE

From: FOSTER WHEELER ENVIRONMENTAL. Date: 2/15/01

To: Public Works Engineering Division

Subj.: REQUEST FOR EXCAVATION PERMIT PURSUANT TO: BLDG. A-85 SITE CLOSURE

1. Purpose of Excavation: REMEDIATION OF TPH/ARSENIC CONTAMINATED SOIL
2. Time and Date of Excavation: 0700 2/20/01

Description of Excavation (Attach Sketch/Plan): SEE ATTACHED BLDG. A-85 CLOSURE PLAN

4. Other Pertinent Information: INCLUDED IN BLDG. A-85 CLOSURE PLAN

[signature] x4570 — Con. Rep/Eng. Tech. signature & phone #

[signature] PROJECT SUPERINTENDENT — Contractors signature, Title & phone # 617-457-8200

From: Public Works Engineering Division Date: / /

To: _____

1. ☐ Approved, subject to completing "Other Actions Required" (see below).
2. ☐ Approved, subject to completing "Other Actions Required" and the following change(s):
3. ☐ Disapproved, due to the following reason(s):

Other Actions Required and Comments:

1. Call "Call Before You Dig" 1-800-922-4455

2. Contact a private line-locating professional to identify Navy owned telephone lines.

3. Is dig location in or near a Subase Installation Restoration (IR) site? (Yes ☐ No ☑)
If "Yes", **STOP HERE**, you are required to contact the Subase Environmental Department IR Program Manager at 694-5176 for further information before continuing. ↳ This is required - MWS

Signature by IR Program Manager required before continuing _____

3a. Return form to Engineering for final approval

4. See attached plan(s) for location of existing utilities overhead electric lines from power pole to B-545 & A-85 are not shown on attached dwg.

5. This Dig Permit and utility location drawing(s) must be on site during excavation

6. Additional Comments/Requirements:

ALL DIGGING TO BE IN ACCORDANCE WITH ATTACHED SUBASE DIG PROCEDURES.

S-4 is in area of high voltage ductbank. Hand dig in that area.

MWS For Civil/Architectural Branch Head Signature [signature] x4997
Phone or Extension #

JP PD Mechanical/Electrical Branch Head Signature [signature] x2078
Phone or Extension #

June 1999

SUBASE Digging Procedures

The signed copy of the dig permit including all enclosures must be at the site at all times when excavation is taking place. No excavation shall commence until all utilities are marked out. Any changes to the dig permit will require the approval of Public Works Engineering.

These precautions are intended to prevent damage to buried utility lines and to prevent personnel injury due to contact with energized wiring and pressurized piping. We have made every attempt to identify all known utilities in the area specified on the dig permit. Please be advised that drawing locations could be off location as much as ten feet due to as-built conditions, drawing scale, or inaccurate record data. There is also the possibility that unidentified lines may be encountered during excavation. These lines should be considered energized until their identity and status is confirmed by Public Works personnel.

Digging within two feet of known buried utility lines must be done by hand only. For work immediately adjacent to or for excavations exposing a utility or other buried obstruction, excavate by hand. Start hand excavation on each side of the indicated obstruction and continue until the obstruction is uncovered or until clearance for the new grade is assured. Movement of construction machinery and equipment over pipes and utilities shall be minimized and in any case shall be at the contractor's risk. Support uncovered lines or other existing work affected by the excavation until approval for backfill is granted by the Contracting Officer. Work adjacent to non-Government owned utilities shall be performed in accordance with procedures outlined by the utility company. Report damage to utility lines or subsurface construction immediately to the Contracting Officer.

Report all changes to design conditions and any errors identified on existing utility maps to Public Works Engineering. These as-built changes will be incorporated into the data base to ensure that plotted locations of buried utilities are accurate.

APPENDIX C

SUBASENLON DPW Correspondence – Unsafe Conditions of Bunker

Strong, CWO4 Donald

From: Strong, CWO4 Donald
Sent: Tuesday, February 20, 2001 9:05 AM
To: Henley, Jim; Karol, Dave
Subject: RE: A-85 Bunker

Mr. Karol,
In order to meet the sampling requirements, and for sampling requirements only, you may enter bldg. A-85. Every precaution shall be taken in regards to the unsafe condition of the door to prevent injury. Where as the the concrete is deteriorated holding the hinges for the door, extreme caution must be taken and PWD may need to be involved. Should the hinges giveway the door could cause serious injury or even death. SUBASE and SUBASE Safety will not be liable.

CWO4 Strong
Safety Officer
ext. 4201

-----Original Message-----
From: Henley, Jim
Sent: Tuesday, February 20, 2001 8:20 AM
To: Strong, CWO4 Donald
Subject: FW: A-85 Bunker

This needs to be acted upon today. He needs something in writing.

-----Original Message-----
From: Karol, Dave
Sent: Friday, February 16, 2001 8:08 AM
To: Henley, Jim
Subject: A-85 Bunker

Jim,

Last Fall, during your safety inspection, you deemed the A-85 bunker unsafe and had us lock it up. We have not used it since then. The bunker and the remainder of the hazardous waste storage area will begin formal closure next week, beginning 20 February 2001. After closure (i.e. remediation), this area will not be used as a hazardous waste storage area. Building 562 will be used exclusively for the storage of hazardous waste. As part of the closure process a contractor (Foster Wheeler) will have to take samples (chip & core) of the concrete slab on the inside of the bunker. This is a requirement of the Connecticut Department of Environmental Protection in order to determine the extent of contamination in the bunker. The most time that they will spend in there is half a day. Is this acceptable?

If you have any questions concerning this matter, please call me at x5192.

Thanks, Dave

APPENDIX D-1

Confirmatory Laboratory Analytical Results
Area 1

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	Bldg A-85
ETR:	00145575
Report Date:	03/20/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45575
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Volatile Organics by GC/MS

1. Sample SBNL14-A1-13SSW (45575-10) was originally analyzed by low-level analysis (NaHSO4 preserved), however, the concentration for the compound Acetone exceeded the instrument calibration range. This sample was reanalyzed (45575-10E) by high-level analysis (MeOH preserved) and all concentrations were within instrument calibration range. Both analyses were reported to obtain the lowest reporting limits.

Semi-Volatile Organics by GC/MS

1. Sample SBNL14-A1-16WSW (45575-14) was analyzed at an initial 1:4 dilution due to the dark thick nature of the extract. However, several compounds exceeded the instrument calibration range. The sample was re-analyzed at a 1:20 dilution resulting in all compounds being within the instrument calibration range. Both analyses were reported to obtain the lowest possible reporting limits.

2. The matrix spike and spike duplicate samples associated with sample SBNL14-A1-10SNW (45575-02) had an RPD exceeding the QC criteria for the compounds, 1,2,4-Trichlorobenzene, 28% (limit 23%) and Acenaphthene, 30% (limit 19%).

Metals

1. Sample SBNL14-A1-10SS (45575-01) was digested and analyzed in duplicate with a matrix spike. All QC measures were within acceptance criteria except for the following:

   Lead: The concentration of lead in the Prep Blank was slightly higher then the reporting limit. The RPD between duplicates was 31% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Mercury: The matrix spike recovery was 166%, which does not meet quality control criteria of 75%-125%. This may be due to sample matrix interference. The laboratory control sample was within acceptance limits.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Susan R. Zahn Date: 3-20-01
Woods Hole Group Environmental Laboratories

F:\SHARED\NARRTEMP\FOSWHE\45575.dot

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767

TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA 02110
Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: SUE LEACH / KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/15/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ 48 Hr — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8oz / GLASS / ICE	40 mL / VOA / NAHSO4	40 mL / VOA / MEOH			
							NUMBER OF CONTAINERS					
45575-1	SBNL14-A1-10 SS	3/15/01	0900	GRAB	SOIL	TPH (IR), SVOC, VOC, RCRA 8 PLUS Ni, Cu, Zn	1	2	1			
2	SBNL14-A1-10 NSW		0900									
3	SBNL14-A1-10 ESW		0900									
4	SBNL14-A1-11 SS		0905									
5	SBNL14-A1-11 ESW		0905									
6	SBNL14-A1-12 SS		0910									
7	SBNL14-A1-12 ESW		0910									
8	SBNL14-A1-12 SSW		0910									
9	SBNL14-A1-13 SS		0915									
10	SBNL14-A1-13 SSW		0915									

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. White	3/15/01	5:45	Nancy Di Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
TRIP BLANK INCLUDED

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767
TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA 02110
Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: SUE LEACH / KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/15/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ 48 Hr — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	40 mL / VOA / NAHSO4	40 mL / VOA / MEOH			
							NUMBER OF CONTAINERS					
45575-11	SBNL14-A1-14SS	3/15/01	0920	GRAB	SOIL	TPH (IR), SVOC, VOC, RCRA8 PLUS Ni, Cu, Zn	1	2	1			
12	SBNL14-A1-15SS	↓	0925	↓	↓	↓	↓	↓	↓			
13	SBNL14-A1-15NSW	↓	0925	↓	↓	↓	↓	↓	↓			
14	SBNL14-A1-16WSW	↓	0930	↓	↓	↓	↓	↓	↓			
15	SBNL14-A1-17WSW	↓	0935	↓	↓	↓	↓	↓	↓			
16	SBNL14-A1-18WSW	↓	0940	↓	↓	↓	↓	↓	↓			
17	SBNL14-A1-19SSW	↓	0945	↓	↓	↓	↓	↓	↓			

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
[signature]	3/15/01	5:45	Nancy A Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
TRIP BLANK INCLUDED

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145575-01	SBNL14-A1-10SS	SOIL	03/15/2001 9:00:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145575-02	SBNL14-A1-10NSW	SOIL	03/15/2001 9:00:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145575-03	SBNL14-A1-10ESW	SOIL	03/15/2001 9:00:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145575-04	SBNL14-A1-11SS	SOIL	03/15/2001 9:05:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145575-05	SBNL14-A1-11ESW	SOIL	03/15/2001 9:05:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145575-06	SBNL14-A1-12SS	SOIL	03/15/2001 9:10:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145575-07	SBNL14-A1-12ESW	SOIL	03/15/2001 9:10:00 AM	03/15/2001 5:45:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145575-08	SBNL14-A1-12SSW	SOIL	03/15/2001 9:10:00 AM	03/15/2001 5:45:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			
0145575-09	SBNL14-A1-13SS	SOIL	03/15/2001 9:15:00 AM	03/15/2001 5:45:00 PM
	Lab Testing:			
	8260B Volatile Organics -- GC/MS			
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145575-10	SBNL14-A1-13SSW	SOIL	03/15/2001 9:15:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145575-11	SBNL14-A1-14SS	SOIL	03/15/2001 9:20:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145575-12	SBNL14-A1-15SS	SOIL	03/15/2001 9:25:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145575-13	SBNL14-A1-15NSW	SOIL	03/15/2001 9:25:00 AM	03/15/2001 5:45:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145575-14	SBNL14-A1-16WSW	SOIL	03/15/2001 9:30:00 AM	03/15/2001 5:45:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145575-15	SBNL14-A1-17WSW	SOIL	03/15/2001 9:35:00 AM	03/15/2001 5:45:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145575-16	SBNL14-A1-18WSW	SOIL	03/15/2001 9:40:00 AM	03/15/2001 5:45:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145575-17	SBNL14-A1-19SSW	SOIL	03/15/2001 9:45:00 AM	03/15/2001 5:45:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			
0145575-18	Trip Blank	SOIL	03/15/2001	03/15/2001 5:45:00 PM
	Lab Testing:			
	8260B Volatile Organics -- GC/MS			

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-10ESW
Lab ID: 0145575-03

Matrix: SOIL
% SOLIDS: 87%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.5		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Barium, Total	180		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.087		mg/kg dry	5	0.062	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	24		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Copper, Total	38		mg/kg dry	5	0.31	6020	03/15/2001	03/16/2001	MDM
Lead, Total	23		mg/kg dry	5	0.31	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.023		mg/kg dry	1	0.010	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	24		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.35		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.076		mg/kg dry	5	0.037	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	52		mg/kg dry	5	0.62	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-11SS
Lab ID: 0145575-04

Matrix: SOIL
% SOLIDS: 83%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.9		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	34		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.071	U	mg/kg dry	5	0.071	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	9.4		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	8.3		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Lead, Total	6.7		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.016		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	6.1		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.055		mg/kg dry	5	0.042	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	22		mg/kg dry	5	0.71	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-11ESW
Lab ID: 0145575-05

Matrix: SOIL
% SOLIDS: 89%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.1		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Barium, Total	32		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.11		mg/kg dry	5	0.065	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	7.4		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Copper, Total	5.9		mg/kg dry	5	0.33	6020	03/15/2001	03/16/2001	MDM
Lead, Total	13		mg/kg dry	5	0.33	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.014		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	4.7		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.032	U	mg/kg dry	5	0.032	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	18		mg/kg dry	5	0.65	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-12SS
Lab ID: 0145575-06

Matrix: SOIL
% SOLIDS: 79%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.1		mg/kg dry	5	0.19	6020	03/15/2001	03/16/2001	MDM
Barium, Total	50		mg/kg dry	5	0.19	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.078	U	mg/kg dry	5	0.078	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	12		mg/kg dry	5	0.19	6020	03/15/2001	03/16/2001	MDM
Copper, Total	6.3		mg/kg dry	5	0.39	6020	03/15/2001	03/16/2001	MDM
Lead, Total	6.3		mg/kg dry	5	0.39	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.028		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	8.1		mg/kg dry	5	0.19	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.59		mg/kg dry	5	0.19	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.080		mg/kg dry	5	0.044	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	35		mg/kg dry	5	0.78	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-10SS
Lab ID: 0145575-01
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.2		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	40		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.076		mg/kg dry	5	0.070	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	12		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	14		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Lead, Total	22		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.18		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	9.6		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.080		mg/kg dry	5	0.038	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	34		mg/kg dry	5	0.70	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-10NSW
Lab ID: 0145575-02
Matrix: SOIL
% SOLIDS: 96%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.55		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Barium, Total	20		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.062	U	mg/kg dry	5	0.062	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	3.5		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Copper, Total	4.1		mg/kg dry	5	0.31	6020	03/15/2001	03/16/2001	MDM
Lead, Total	12		mg/kg dry	5	0.31	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.011		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	3.1		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.035	U	mg/kg dry	5	0.035	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	14		mg/kg dry	5	0.62	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-12ESW
Lab ID: 0145575-07

Matrix: SOIL
% SOLIDS: 93%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.76		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	22		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.072	U	mg/kg dry	5	0.072	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	6.2		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	4.7		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Lead, Total	1.9		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	4.0		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.032	U	mg/kg dry	5	0.032	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	12		mg/kg dry	5	0.72	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-12SSW
Lab ID: 0145575-08

Matrix: SOIL
% SOLIDS: 80%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.8		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Barium, Total	28		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.65		mg/kg dry	5	0.079	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	5.4		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Copper, Total	7.9		mg/kg dry	5	0.40	6020	03/15/2001	03/16/2001	MDM
Lead, Total	8.3		mg/kg dry	5	0.40	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.042		mg/kg dry	1	0.014	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	48		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.31		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.10		mg/kg dry	5	0.032	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	49		mg/kg dry	5	0.79	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-13SS
Lab ID: 0145575-09

Matrix: SOIL
% SOLIDS: 89%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.0		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Barium, Total	19		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.068	U	mg/kg dry	5	0.068	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	5.2		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Copper, Total	5.5		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Lead, Total	3.2		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	3.6		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.21		mg/kg dry	5	0.037	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	12		mg/kg dry	5	0.68	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-13SSW
Lab ID: 0145575-10

Matrix: SOIL
% SOLIDS: 87%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.7		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Barium, Total	19		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.071		mg/kg dry	5	0.067	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	6.6		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Copper, Total	5.0		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Lead, Total	5.0		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.013		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	14		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.053		mg/kg dry	5	0.031	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	15		mg/kg dry	5	0.67	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-14SS
Lab ID: 0145575-11

Matrix: SOIL
% SOLIDS: 87%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.9		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Barium, Total	26		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.064	U	mg/kg dry	5	0.064	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	14		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Copper, Total	12		mg/kg dry	5	0.32	6020	03/15/2001	03/16/2001	MDM
Lead, Total	5.8		mg/kg dry	5	0.32	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.026		mg/kg dry	1	0.013	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	8.4		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.19		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.038	U	mg/kg dry	5	0.038	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	30		mg/kg dry	5	0.64	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-15SS
Lab ID: 0145575-12

Matrix: SOIL
% SOLIDS: 97%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.43		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Barium, Total	11		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.066	U	mg/kg dry	5	0.066	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	2.0		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Copper, Total	3.7		mg/kg dry	5	0.33	6020	03/15/2001	03/16/2001	MDM
Lead, Total	1.7		mg/kg dry	5	0.33	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	1.5		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.035	U	mg/kg dry	5	0.035	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	7.5		mg/kg dry	5	0.66	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-15NSW
Lab ID: 0145575-13

Matrix: SOIL
% SOLIDS: 82%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	3.3		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	28		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.071	U	mg/kg dry	5	0.071	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	10		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	9.1		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Lead, Total	9.8		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.028		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	7.0		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.042		mg/kg dry	5	0.039	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	21		mg/kg dry	5	0.71	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-16WSW
Lab ID: 0145575-14

Matrix: SOIL
% SOLIDS: 86%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	14		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	26		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.075		mg/kg dry	5	0.073	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	12		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	21		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Lead, Total	18		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.22		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	8.4		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.23		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.15		mg/kg dry	5	0.033	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	25		mg/kg dry	5	0.73	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-17WSW
Lab ID: 0145575-15

Matrix: SOIL
% SOLIDS: 89%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.97		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Barium, Total	8.9		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.062	U	mg/kg dry	5	0.062	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	1.9		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Copper, Total	4.4		mg/kg dry	5	0.31	6020	03/15/2001	03/16/2001	MDM
Lead, Total	14		mg/kg dry	5	0.31	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.16		mg/kg dry	1	0.013	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	1.7		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.033	U	mg/kg dry	5	0.033	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	14		mg/kg dry	5	0.62	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-18WSW
Lab ID: 0145575-16

Matrix: SOIL
% SOLIDS: 85%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	3.8		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	44		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.092		mg/kg dry	5	0.070	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	20		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	23		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Lead, Total	9.8		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.068		mg/kg dry	1	0.013	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	15		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.078		mg/kg dry	5	0.033	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	62		mg/kg dry	5	0.70	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-19SSW
Lab ID: 0145575-17

Matrix: SOIL
% SOLIDS: 75%

Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	3.8		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Barium, Total	31		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.070	U	mg/kg dry	5	0.070	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	22		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Copper, Total	7.2		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Lead, Total	6.9		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.027		mg/kg dry	1	0.013	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	9.3		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.58		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.055		mg/kg dry	5	0.029	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	26		mg/kg dry	5	0.70	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler
Project: Bldg A-85
ETR: 45575

Parameter	Sample ID	analysis date	Blank (ug/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	quali -fier
Arsenic	45575-01	03/16/01	<2.5	2.2	0	3.01	83	136	91	
Barium	45575-01	03/16/01	<2.5	40	13	290	87	132	86	
Cadmium	45575-01	03/16/01	<1.0	0.076	2	3.01	92	121	93	
Chromium	45575-01	03/16/01	<2.5	12	8	290	86	89.7	92	
Copper	45575-01	03/16/01	<5.0	14	15	290	82	118	93	
Lead	45575-01	03/16/01	11	22	31	290	86	144	83	N
Mercury	45575-01	03/16/01	<0.2	0.18	6	0.29	166	2.48	102	N
Nickel	45575-01	03/16/01	<2.5	9.6	12	290	92	161	93	
Selenium	45575-01	03/16/01	<2.5	<0.18	0	3.01	99	95.0	97	
Silver	45575-01	03/19/01	<0.5	0.080	52	2.67	109	119	106	R
Zinc	45575-01	03/16/01	<10	34	12	290	91	72.1	75	V

Qualifiers & Notes:
B=Reported QC is for associated batch
RPD = relative percent difference
C= Sample spiked less than 0.25X sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.
V = LCS is within vendor limits.

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-10SS
Lab ID: 0145575-01
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	120		mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-10NSW
Lab ID: 0145575-02
Matrix: SOIL
% SOLIDS: 96%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	110		mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-10ESW
Lab ID: 0145575-03
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-11SS
Lab ID: 0145575-04
Matrix: SOIL
% SOLIDS: 83%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-11ESW
Lab ID: 0145575-05
Matrix: SOIL
% SOLIDS: 89%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	75		mg/kg dry	1	50	418.1	03/20/2001	DMJ

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-12SS
Lab ID: 0145575-06
Matrix: SOIL
% SOLIDS: 79%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-12ESW
Lab ID: 0145575-07
Matrix: SOIL
% SOLIDS: 93%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-12SSW
Lab ID: 0145575-08
Matrix: SOIL
% SOLIDS: 80%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	89		mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-13SS
Lab ID: 0145575-09
Matrix: SOIL
% SOLIDS: 89%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-13SSW
Lab ID: 0145575-10
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-14SS
Lab ID: 0145575-11
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	94		mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-15SS
Lab ID: 0145575-12
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-15NSW
Lab ID: 0145575-13
Matrix: SOIL
% SOLIDS: 82%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-16WSW
Lab ID: 0145575-14
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	150		mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-17WSW
Lab ID: 0145575-15
Matrix: SOIL
% SOLIDS: 89%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145575
Project: Bldg A-85

Sample ID: SBNL14-A1-18WSW
Lab ID: 0145575-16
Matrix: SOIL
% SOLIDS: 85%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	60		mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-19SSW
Lab ID: 0145575-17
Matrix: SOIL
% SOLIDS: 75%
Date Collected: 03/15/2001
Date Received: 03/15/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	DMJ

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-10SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-01**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	85.9	20.06	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	580	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	**67**	J
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	290	U
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	580	U
2-Chloronaphthalene	290	U
2-Nitroaniline	580	U
Acenaphthylene	**690**	
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	**59**	J

Parameter	Result	
3-Nitroaniline	580	U
2,4-Dinitrophenol	580	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	580	U
Fluorene	**77**	J
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	580	U
4,6-Dinitro-2-methylphenol	580	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	580	U
Phenanthrene	**610**	
Anthracene	**430**	
Di-n-butylphthalate	290	U
Fluoranthene	**1600**	
Pyrene	**2400**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	**89**	J
Benz[a]anthracene	**1400**	
Chrysene	**1500**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**2500**	
Benzo[k]fluoranthene	**1300**	
Benzo[a]pyrene	**2200**	
Indeno[1,2,3-cd]pyrene	**720**	
Dibenz[a,h]anthracene	**230**	J
Benzo[g,h,i]perylene	**660**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	52	25-121
Phenol-d5	55	24-113
Nitrobenzene-d5	52	23-120
2-Fluorobiphenyl	54	30-115
2,4,6-Tribromophenol	63	19-122
Terphenyl-d14	55	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-10NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-02**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	95.7	20.2	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
Benzyl alcohol	2600	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
Benzoic acid	520	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	**54**	J
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	520	U
2-Chloronaphthalene	260	U
2-Nitroaniline	520	U
Acenaphthylene	**740**	
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	**140**	J

Parameter	Result	
3-Nitroaniline	520	U
2,4-Dinitrophenol	520	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	520	U
Fluorene	**180**	J
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	520	U
4,6-Dinitro-2-methylphenol	520	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	520	U
Phenanthrene	**1500**	
Anthracene	**640**	
Di-n-butylphthalate	260	U
Fluoranthene	**3900**	
Pyrene	**4700**	
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	**150**	J
Benz[a]anthracene	**2300**	
Chrysene	**2500**	
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**3200**	
Benzo[k]fluoranthene	**1800**	
Benzo[a]pyrene	**2500**	
Indeno[1,2,3-cd]pyrene	**830**	
Dibenz[a,h]anthracene	**270**	
Benzo[g,h,i]perylene	**670**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	64	25-121
Phenol-d5	68	24-113
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	65	30-115
2,4,6-Tribromophenol	76	19-122
Terphenyl-d14	70	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-10NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **See Below**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
03/15/01	03/15/01	03/15/01	95.7	CLM

Lab ID:	45575-02		45575-02		45575-02				
Parameter	**Sample Conc.**		**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Phenol	260	U	7100	68	5600	54	24	35	26-90
2-Chlorophenol	260	U	7600	73	6100	58	22	50	25-102
1,4-Dichlorobenzene	260	U	3100	60	2500	47	24	27	28-104
N-Nitroso-di-n-propylamine	260	U	3600	69	2800	54	24	38	41-126
1,2,4-Trichlorobenzene	260	U	3600	69	2700	52	28[a]	23	38-107
4-Chloro-3-methylphenol	260	U	9100	88	6700	64	31	33	26-103
Acenaphthene	140		3900	73	2900	53	30[a]	19	31-137
2,4-Dinitrotoluene	260	U	3800	73	2500	49	39	47	28-89
4-Nitrophenol	520	U	8500	82	5800	56	39	50	11-114
Pentachlorophenol	520	U	6700	65	5200	50	26	47	17-109
Pyrene	4700		9700	97	8000	64	19	36	35-142

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
2-Fluorophenol	67	54	25-121
Phenol-d5	72	57	24-113
Nitrobenzene-d5	67	51	23-120
2-Fluorobiphenyl	70	51	30-115
2,4,6-Tribromophenol	85	61	19-122
Terphenyl-d14	78	55	18-137

[a] - Value outside of QC Limits.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-10ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-03**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	86.8	20.12	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	290	U
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	290	U
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	290	U
2-Nitroaniline	570	U
Acenaphthylene	290	U
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	290	U

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	570	U
Fluorene	290	U
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	570	U
Phenanthrene	290	U
Anthracene	290	U
Di-n-butylphthalate	290	U
Fluoranthene	**72**	J
Pyrene	**120**	J
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	290	U
Benz[a]anthracene	**72**	J
Chrysene	**98**	J
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**120**	J
Benzo[k]fluoranthene	**98**	J
Benzo[a]pyrene	**130**	J
Indeno[1,2,3-cd]pyrene	**79**	J
Dibenz[a,h]anthracene	290	U
Benzo[g,h,i]perylene	**95**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	59	25-121
Phenol-d5	60	24-113
Nitrobenzene-d5	57	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	72	19-122
Terphenyl-d14	63	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-11SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-04**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	83.4	20.03	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	300	U
Phenol	300	U
2-Chlorophenol	300	U
1,3-Dichlorobenzene	300	U
1,4-Dichlorobenzene	300	U
1,2-Dichlorobenzene	300	U
Benzyl alcohol	3000	U
bis(2-chloroisopropyl)ether	300	U
2-Methylphenol	300	U
Hexachloroethane	300	U
N-Nitroso-di-n-propylamine	300	U
4-Methylphenol	300	U
Nitrobenzene	300	U
Isophorone	300	U
2-Nitrophenol	300	U
2,4-Dimethylphenol	300	U
Benzoic acid	600	U
bis(2-Chloroethoxy)methane	300	U
2,4-Dichlorophenol	300	U
1,2,4-Trichlorobenzene	300	U
Naphthalene	300	U
4-Chloroaniline	300	U
Hexachlorobutadiene	300	U
4-Chloro-3-methylphenol	300	U
2-Methylnaphthalene	300	U
Hexachlorocyclopentadiene	300	U
2,4,6-Trichlorophenol	300	U
2,4,5-Trichlorophenol	600	U
2-Chloronaphthalene	300	U
2-Nitroaniline	600	U
Acenaphthylene	**460**	
Dimethylphthalate	300	U
2,6-Dinitrotoluene	300	U
Acenaphthene	**83**	J

Parameter	Result	
3-Nitroaniline	600	U
2,4-Dinitrophenol	600	U
Dibenzofuran	300	U
2,4-Dinitrotoluene	300	U
4-Nitrophenol	600	U
Fluorene	**140**	J
4-Chlorophenyl-phenylether	300	U
Diethylphthalate	300	U
4-Nitroaniline	600	U
4,6-Dinitro-2-methylphenol	600	U
n-Nitrosodiphenylamine	300	U
4-Bromophenyl-phenylether	300	U
Hexachlorobenzene	300	U
Pentachlorophenol	600	U
Phenanthrene	**1400**	
Anthracene	**480**	
Di-n-butylphthalate	300	U
Fluoranthene	**2700**	
Pyrene	**2800**	
Butylbenzylphthalate	300	U
3,3'-Dichlorobenzidine	300	U
Carbazole	**230**	J
Benz[a]anthracene	**1400**	
Chrysene	**1400**	
bis(2-Ethylhexyl)phthalate	300	U
Di-n-octylphthalate	300	U
Benzo[b]fluoranthene	**1400**	
Benzo[k]fluoranthene	**1100**	
Benzo[a]pyrene	**1500**	
Indeno[1,2,3-cd]pyrene	**700**	
Dibenz[a,h]anthracene	**210**	J
Benzo[g,h,i]perylene	**660**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	60	25-121
Phenol-d5	67	24-113
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	80	19-122
Terphenyl-d14	71	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-11ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-05**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	88.9	20.12	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	560	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	**69**	J
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	560	U
2-Chloronaphthalene	280	U
2-Nitroaniline	560	U
Acenaphthylene	**1000**	
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	560	U
2,4-Dinitrophenol	560	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	560	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	560	U
4,6-Dinitro-2-methylphenol	560	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	560	U
Phenanthrene	**220**	J
Anthracene	**490**	
Di-n-butylphthalate	280	U
Fluoranthene	**800**	
Pyrene	**1700**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	**65**	J
Benz[a]anthracene	**1100**	
Chrysene	**1300**	
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**3100**	
Benzo[k]fluoranthene	**1400**	
Benzo[a]pyrene	**2700**	
Indeno[1,2,3-cd]pyrene	**1100**	
Dibenz[a,h]anthracene	**320**	
Benzo[g,h,i]perylene	**1000**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	59	25-121
Phenol-d5	64	24-113
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	59	30-115
2,4,6-Tribromophenol	74	19-122
Terphenyl-d14	66	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-12SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-06**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	79	20.07	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	320	U
Phenol	320	U
2-Chlorophenol	320	U
1,3-Dichlorobenzene	320	U
1,4-Dichlorobenzene	320	U
1,2-Dichlorobenzene	320	U
Benzyl alcohol	3200	U
bis(2-chloroisopropyl)ether	320	U
2-Methylphenol	320	U
Hexachloroethane	320	U
N-Nitroso-di-n-propylamine	320	U
4-Methylphenol	320	U
Nitrobenzene	320	U
Isophorone	320	U
2-Nitrophenol	320	U
2,4-Dimethylphenol	320	U
Benzoic acid	630	U
bis(2-Chloroethoxy)methane	320	U
2,4-Dichlorophenol	320	U
1,2,4-Trichlorobenzene	320	U
Naphthalene	320	U
4-Chloroaniline	320	U
Hexachlorobutadiene	320	U
4-Chloro-3-methylphenol	320	U
2-Methylnaphthalene	320	U
Hexachlorocyclopentadiene	320	U
2,4,6-Trichlorophenol	320	U
2,4,5-Trichlorophenol	630	U
2-Chloronaphthalene	320	U
2-Nitroaniline	630	U
Acenaphthylene	320	U
Dimethylphthalate	320	U
2,6-Dinitrotoluene	320	U
Acenaphthene	320	U

Parameter	Result	
3-Nitroaniline	630	U
2,4-Dinitrophenol	630	U
Dibenzofuran	320	U
2,4-Dinitrotoluene	320	U
4-Nitrophenol	630	U
Fluorene	320	U
4-Chlorophenyl-phenylether	320	U
Diethylphthalate	320	U
4-Nitroaniline	630	U
4,6-Dinitro-2-methylphenol	630	U
n-Nitrosodiphenylamine	320	U
4-Bromophenyl-phenylether	320	U
Hexachlorobenzene	320	U
Pentachlorophenol	630	U
Phenanthrene	320	U
Anthracene	320	U
Di-n-butylphthalate	320	U
Fluoranthene	320	U
Pyrene	**66**	J
Butylbenzylphthalate	320	U
3,3'-Dichlorobenzidine	320	U
Carbazole	320	U
Benz[a]anthracene	320	U
Chrysene	320	U
bis(2-Ethylhexyl)phthalate	320	U
Di-n-octylphthalate	320	U
Benzo[b]fluoranthene	320	U
Benzo[k]fluoranthene	320	U
Benzo[a]pyrene	**62**	J
Indeno[1,2,3-cd]pyrene	320	U
Dibenz[a,h]anthracene	320	U
Benzo[g,h,i]perylene	320	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	53	25-121
Phenol-d5	54	24-113
Nitrobenzene-d5	52	23-120
2-Fluorobiphenyl	53	30-115
2,4,6-Tribromophenol	63	19-122
Terphenyl-d14	55	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-12ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-07**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	93	20.22	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
Benzyl alcohol	2700	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
Benzoic acid	530	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	270	U
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	270	U
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	530	U
2-Chloronaphthalene	270	U
2-Nitroaniline	530	U
Acenaphthylene	270	U
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	270	U

Parameter	Result	
3-Nitroaniline	530	U
2,4-Dinitrophenol	530	U
Dibenzofuran	270	U
2,4-Dinitrotoluene	270	U
4-Nitrophenol	530	U
Fluorene	270	U
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	530	U
4,6-Dinitro-2-methylphenol	530	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	530	U
Phenanthrene	**200**	J
Anthracene	**64**	J
Di-n-butylphthalate	270	U
Fluoranthene	**220**	J
Pyrene	**240**	J
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	270	U
Benz[a]anthracene	**110**	J
Chrysene	**120**	J
bis(2-Ethylhexyl)phthalate	270	U
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**160**	J
Benzo[k]fluoranthene	**110**	J
Benzo[a]pyrene	**160**	J
Indeno[1,2,3-cd]pyrene	**100**	J
Dibenz[a,h]anthracene	270	U
Benzo[g,h,i]perylene	**120**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	66	25-121
Phenol-d5	70	24-113
Nitrobenzene-d5	64	23-120
2-Fluorobiphenyl	65	30-115
2,4,6-Tribromophenol	78	19-122
Terphenyl-d14	71	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-12SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-08**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	80.2	20.07	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	310	U
Phenol	310	U
2-Chlorophenol	310	U
1,3-Dichlorobenzene	310	U
1,4-Dichlorobenzene	310	U
1,2-Dichlorobenzene	310	U
Benzyl alcohol	3100	U
bis(2-chloroisopropyl)ether	310	U
2-Methylphenol	310	U
Hexachloroethane	310	U
N-Nitroso-di-n-propylamine	310	U
4-Methylphenol	310	U
Nitrobenzene	310	U
Isophorone	310	U
2-Nitrophenol	310	U
2,4-Dimethylphenol	310	U
Benzoic acid	620	U
bis(2-Chloroethoxy)methane	310	U
2,4-Dichlorophenol	310	U
1,2,4-Trichlorobenzene	310	U
Naphthalene	**57**	J
4-Chloroaniline	310	U
Hexachlorobutadiene	310	U
4-Chloro-3-methylphenol	310	U
2-Methylnaphthalene	310	U
Hexachlorocyclopentadiene	310	U
2,4,6-Trichlorophenol	310	U
2,4,5-Trichlorophenol	620	U
2-Chloronaphthalene	310	U
2-Nitroaniline	620	U
Acenaphthylene	**360**	
Dimethylphthalate	310	U
2,6-Dinitrotoluene	310	U
Acenaphthene	310	U

Parameter	Result	
3-Nitroaniline	620	U
2,4-Dinitrophenol	620	U
Dibenzofuran	310	U
2,4-Dinitrotoluene	310	U
4-Nitrophenol	620	U
Fluorene	310	U
4-Chlorophenyl-phenylether	310	U
Diethylphthalate	310	U
4-Nitroaniline	620	U
4,6-Dinitro-2-methylphenol	620	U
n-Nitrosodiphenylamine	310	U
4-Bromophenyl-phenylether	310	U
Hexachlorobenzene	310	U
Pentachlorophenol	620	U
Phenanthrene	**230**	J
Anthracene	**190**	J
Di-n-butylphthalate	310	U
Fluoranthene	**1800**	
Pyrene	**2500**	
Butylbenzylphthalate	310	U
3,3'-Dichlorobenzidine	310	U
Carbazole	310	U
Benz[a]anthracene	**1400**	
Chrysene	**1500**	
bis(2-Ethylhexyl)phthalate	310	U
Di-n-octylphthalate	310	U
Benzo[b]fluoranthene	**1500**	
Benzo[k]fluoranthene	**950**	
Benzo[a]pyrene	**1500**	
Indeno[1,2,3-cd]pyrene	**600**	
Dibenz[a,h]anthracene	**180**	J
Benzo[g,h,i]perylene	**570**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	66	25-121
Phenol-d5	71	24-113
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	67	30-115
2,4,6-Tribromophenol	77	19-122
Terphenyl-d14	70	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-13SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-09**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	88.7	20.09	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	560	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	560	U
2-Chloronaphthalene	280	U
2-Nitroaniline	560	U
Acenaphthylene	280	U
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	560	U
2,4-Dinitrophenol	560	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	560	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	560	U
4,6-Dinitro-2-methylphenol	560	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	560	U
Phenanthrene	280	U
Anthracene	280	U
Di-n-butylphthalate	280	U
Fluoranthene	**120**	J
Pyrene	**130**	J
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	280	U
Benz[a]anthracene	**66**	J
Chrysene	**71**	J
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**54**	J
Benzo[k]fluoranthene	**51**	J
Benzo[a]pyrene	**61**	J
Indeno[1,2,3-cd]pyrene	280	U
Dibenz[a,h]anthracene	280	U
Benzo[g,h,i]perylene	280	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	57	25-121
Phenol-d5	60	24-113
Nitrobenzene-d5	56	23-120
2-Fluorobiphenyl	58	30-115
2,4,6-Tribromophenol	69	19-122
Terphenyl-d14	59	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-13SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-10**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	87.2	20.31	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	560	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	560	U
2-Chloronaphthalene	280	U
2-Nitroaniline	560	U
Acenaphthylene	**230**	J
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	560	U
2,4-Dinitrophenol	560	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	560	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	560	U
4,6-Dinitro-2-methylphenol	560	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	560	U
Phenanthrene	**120**	J
Anthracene	**100**	J
Di-n-butylphthalate	280	U
Fluoranthene	**1100**	
Pyrene	**1200**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	280	U
Benz[a]anthracene	**780**	
Chrysene	**820**	
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**690**	
Benzo[k]fluoranthene	**590**	
Benzo[a]pyrene	**740**	
Indeno[1,2,3-cd]pyrene	**360**	
Dibenz[a,h]anthracene	**110**	J
Benzo[g,h,i]perylene	**360**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	56	25-121
Phenol-d5	60	24-113
Nitrobenzene-d5	58	23-120
2-Fluorobiphenyl	62	30-115
2,4,6-Tribromophenol	75	19-122
Terphenyl-d14	63	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-14SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-11**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	87.4	20.17	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	280	U
2-Nitroaniline	570	U
Acenaphthylene	**230**	J
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	**82**	J
2,4-Dinitrotoluene	280	U
4-Nitrophenol	570	U
Fluorene	**140**	J
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	570	U
Phenanthrene	**960**	
Anthracene	**310**	
Di-n-butylphthalate	280	U
Fluoranthene	**3600**	
Pyrene	**5000**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	**120**	J
Benz[a]anthracene	**1500**	
Chrysene	**1500**	
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**1600**	
Benzo[k]fluoranthene	**1200**	
Benzo[a]pyrene	**1500**	
Indeno[1,2,3-cd]pyrene	**650**	
Dibenz[a,h]anthracene	**190**	J
Benzo[g,h,i]perylene	**550**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	57	25-121
Phenol-d5	61	24-113
Nitrobenzene-d5	54	23-120
2-Fluorobiphenyl	56	30-115
2,4,6-Tribromophenol	66	19-122
Terphenyl-d14	59	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-15SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-12**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	97	20.22	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
Benzyl alcohol	2500	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
Benzoic acid	510	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	260	U
2-Nitroaniline	510	U
Acenaphthylene	260	U
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U

Parameter	Result	
3-Nitroaniline	510	U
2,4-Dinitrophenol	510	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	510	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	510	U
Phenanthrene	**160**	**J**
Anthracene	260	U
Di-n-butylphthalate	260	U
Fluoranthene	**350**	
Pyrene	**300**	
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	**150**	J
Chrysene	**160**	J
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**140**	J
Benzo[k]fluoranthene	**110**	J
Benzo[a]pyrene	**140**	J
Indeno[1,2,3-cd]pyrene	**86**	J
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	**89**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	46	25-121
Phenol-d5	49	24-113
Nitrobenzene-d5	44	23-120
2-Fluorobiphenyl	48	30-115
2,4,6-Tribromophenol	55	19-122
Terphenyl-d14	48	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-15NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-13**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	82.1	20.25	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	300	U
Phenol	300	U
2-Chlorophenol	300	U
1,3-Dichlorobenzene	300	U
1,4-Dichlorobenzene	300	U
1,2-Dichlorobenzene	300	U
Benzyl alcohol	3000	U
bis(2-chloroisopropyl)ether	300	U
2-Methylphenol	300	U
Hexachloroethane	300	U
N-Nitroso-di-n-propylamine	300	U
4-Methylphenol	300	U
Nitrobenzene	300	U
Isophorone	300	U
2-Nitrophenol	300	U
2,4-Dimethylphenol	300	U
Benzoic acid	600	U
bis(2-Chloroethoxy)methane	300	U
2,4-Dichlorophenol	300	U
1,2,4-Trichlorobenzene	300	U
Naphthalene	**76**	J
4-Chloroaniline	300	U
Hexachlorobutadiene	300	U
4-Chloro-3-methylphenol	300	U
2-Methylnaphthalene	300	U
Hexachlorocyclopentadiene	300	U
2,4,6-Trichlorophenol	300	U
2,4,5-Trichlorophenol	600	U
2-Chloronaphthalene	300	U
2-Nitroaniline	600	U
Acenaphthylene	**620**	
Dimethylphthalate	300	U
2,6-Dinitrotoluene	300	U
Acenaphthene	**120**	J

Parameter	Result	
3-Nitroaniline	600	U
2,4-Dinitrophenol	600	U
Dibenzofuran	**110**	J
2,4-Dinitrotoluene	300	U
4-Nitrophenol	600	U
Fluorene	**270**	J
4-Chlorophenyl-phenylether	300	U
Diethylphthalate	300	U
4-Nitroaniline	600	U
4,6-Dinitro-2-methylphenol	600	U
n-Nitrosodiphenylamine	300	U
4-Bromophenyl-phenylether	300	U
Hexachlorobenzene	300	U
Pentachlorophenol	600	U
Phenanthrene	**2500**	
Anthracene	**660**	
Di-n-butylphthalate	300	U
Fluoranthene	**4900**	
Pyrene	**5100**	
Butylbenzylphthalate	300	U
3,3'-Dichlorobenzidine	300	U
Carbazole	**190**	J
Benz[a]anthracene	**2800**	
Chrysene	**2900**	
bis(2-Ethylhexyl)phthalate	**75**	J
Di-n-octylphthalate	300	U
Benzo[b]fluoranthene	**3000**	
Benzo[k]fluoranthene	**1700**	
Benzo[a]pyrene	**2600**	
Indeno[1,2,3-cd]pyrene	**1100**	
Dibenz[a,h]anthracene	**310**	
Benzo[g,h,i]perylene	**960**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	62	25-121
Phenol-d5	68	24-113
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	74	19-122
Terphenyl-d14	66	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-16WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-14**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	85.6	20.04	1	4	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	1200	U
Phenol	1200	U
2-Chlorophenol	1200	U
1,3-Dichlorobenzene	1200	U
1,4-Dichlorobenzene	1200	U
1,2-Dichlorobenzene	1200	U
Benzyl alcohol	12000	U
bis(2-chloroisopropyl)ether	1200	U
2-Methylphenol	1200	U
Hexachloroethane	1200	U
N-Nitroso-di-n-propylamine	1200	U
4-Methylphenol	1200	U
Nitrobenzene	1200	U
Isophorone	1200	U
2-Nitrophenol	1200	U
2,4-Dimethylphenol	1200	U
Benzoic acid	2300	U
bis(2-Chloroethoxy)methane	1200	U
2,4-Dichlorophenol	1200	U
1,2,4-Trichlorobenzene	1200	U
Naphthalene	**960**	J
4-Chloroaniline	1200	U
Hexachlorobutadiene	1200	U
4-Chloro-3-methylphenol	1200	U
2-Methylnaphthalene	**1000**	J
Hexachlorocyclopentadiene	1200	U
2,4,6-Trichlorophenol	1200	U
2,4,5-Trichlorophenol	2300	U
2-Chloronaphthalene	1200	U
2-Nitroaniline	2300	U
Acenaphthylene	**6400**	
Dimethylphthalate	1200	U
2,6-Dinitrotoluene	1200	U
Acenaphthene	**3000**	

Parameter	Result	
3-Nitroaniline	2300	U
2,4-Dinitrophenol	2300	U
Dibenzofuran	**3700**	
2,4-Dinitrotoluene	1200	U
4-Nitrophenol	2300	U
Fluorene	**8100**	
4-Chlorophenyl-phenylether	1200	U
Diethylphthalate	1200	U
4-Nitroaniline	2300	U
4,6-Dinitro-2-methylphenol	2300	U
n-Nitrosodiphenylamine	1200	U
4-Bromophenyl-phenylether	1200	U
Hexachlorobenzene	1200	U
Pentachlorophenol	2300	U
Phenanthrene	**67000**	E
Anthracene	**13000**	
Di-n-butylphthalate	1200	U
Fluoranthene	**91000**	E
Pyrene	**84000**	E
Butylbenzylphthalate	1200	U
3,3'-Dichlorobenzidine	1200	U
Carbazole	**5800**	
Benz[a]anthracene	**43000**	E
Chrysene	**38000**	E
bis(2-Ethylhexyl)phthalate	**1300**	
Di-n-octylphthalate	1200	U
Benzo[b]fluoranthene	**46000**	E
Benzo[k]fluoranthene	**18000**	
Benzo[a]pyrene	**32000**	
Indeno[1,2,3-cd]pyrene	**7800**	
Dibenz[a,h]anthracene	**2400**	
Benzo[g,h,i]perylene	**5900**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	67	25-121
Phenol-d5	76	24-113
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	79	19-122
Terphenyl-d14	73	18-137

E - Estimated value, above quantitation limit.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-16WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-14E**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/18/01	85.6	20.04	1	20	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	5800	U
Phenol	1200	U
2-Chlorophenol	5800	U
1,3-Dichlorobenzene	5800	U
1,4-Dichlorobenzene	5800	U
1,2-Dichlorobenzene	5800	U
Benzyl alcohol	58000	U
bis(2-chloroisopropyl)ether	5800	U
2-Methylphenol	5800	U
Hexachloroethane	5800	U
N-Nitroso-di-n-propylamine	5800	U
4-Methylphenol	5800	U
Nitrobenzene	5800	U
Isophorone	5800	U
2-Nitrophenol	5800	U
2,4-Dimethylphenol	5800	U
Benzoic acid	12000	U
bis(2-Chloroethoxy)methane	5800	U
2,4-Dichlorophenol	5800	U
1,2,4-Trichlorobenzene	5800	U
Naphthalene	5800	U
4-Chloroaniline	5800	U
Hexachlorobutadiene	5800	U
4-Chloro-3-methylphenol	5800	U
2-Methylnaphthalene	5800	U
Hexachlorocyclopentadiene	5800	U
2,4,6-Trichlorophenol	5800	U
2,4,5-Trichlorophenol	12000	U
2-Chloronaphthalene	5800	U
2-Nitroaniline	12000	U
Acenaphthylene	**6300**	
Dimethylphthalate	5800	U
2,6-Dinitrotoluene	5800	U
Acenaphthene	**3200**	J

Parameter	Result	
3-Nitroaniline	12000	U
2,4-Dinitrophenol	12000	U
Dibenzofuran	**3700**	J
2,4-Dinitrotoluene	5800	U
4-Nitrophenol	12000	U
Fluorene	**8800**	
4-Chlorophenyl-phenylether	5800	U
Diethylphthalate	5800	U
4-Nitroaniline	12000	U
4,6-Dinitro-2-methylphenol	12000	U
n-Nitrosodiphenylamine	5800	U
4-Bromophenyl-phenylether	5800	U
Hexachlorobenzene	5800	U
Pentachlorophenol	12000	U
Phenanthrene	**73000**	
Anthracene	**14000**	
Di-n-butylphthalate	5800	U
Fluoranthene	**95000**	
Pyrene	**84000**	
Butylbenzylphthalate	5800	U
3,3'-Dichlorobenzidine	5800	U
Carbazole	**6300**	
Benz[a]anthracene	**40000**	
Chrysene	**40000**	
bis(2-Ethylhexyl)phthalate	5800	U
Di-n-octylphthalate	5800	U
Benzo[b]fluoranthene	**34000**	
Benzo[k]fluoranthene	**26000**	
Benzo[a]pyrene	**32000**	
Indeno[1,2,3-cd]pyrene	**19000**	
Dibenz[a,h]anthracene	**4800**	J
Benzo[g,h,i]perylene	**17000**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	67	25-121
Phenol-d5	78	24-113
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	78	30-115
2,4,6-Tribromophenol	72	19-122
Terphenyl-d14	74	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-17WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-15**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	88.8	20.23	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	560	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	560	U
2-Chloronaphthalene	280	U
2-Nitroaniline	560	U
Acenaphthylene	**67**	J
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	560	U
2,4-Dinitrophenol	560	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	560	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	560	U
4,6-Dinitro-2-methylphenol	560	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	560	U
Phenanthrene	**190**	J
Anthracene	**57**	J
Di-n-butylphthalate	280	U
Fluoranthene	**350**	
Pyrene	**340**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	280	U
Benz[a]anthracene	**200**	J
Chrysene	**220**	J
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**250**	J
Benzo[k]fluoranthene	**170**	J
Benzo[a]pyrene	**260**	J
Indeno[1,2,3-cd]pyrene	**150**	J
Dibenz[a,h]anthracene	280	U
Benzo[g,h,i]perylene	**150**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	68	25-121
Phenol-d5	70	24-113
Nitrobenzene-d5	67	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	82	19-122
Terphenyl-d14	71	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-18WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-16**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	85.1	20.07	1	1	CLM

Parameter	Result		Parameter	Result	
bis(2-Chloroethyl)ether	290	U	3-Nitroaniline	580	U
Phenol	290	U	2,4-Dinitrophenol	580	U
2-Chlorophenol	290	U	Dibenzofuran	290	U
1,3-Dichlorobenzene	290	U	2,4-Dinitrotoluene	290	U
1,4-Dichlorobenzene	290	U	4-Nitrophenol	580	U
1,2-Dichlorobenzene	290	U	Fluorene	290	U
Benzyl alcohol	2900	U	4-Chlorophenyl-phenylether	290	U
bis(2-chloroisopropyl)ether	290	U	Diethylphthalate	290	U
2-Methylphenol	290	U	4-Nitroaniline	580	U
Hexachloroethane	290	U	4,6-Dinitro-2-methylphenol	580	U
N-Nitroso-di-n-propylamine	290	U	n-Nitrosodiphenylamine	290	U
4-Methylphenol	290	U	4-Bromophenyl-phenylether	290	U
Nitrobenzene	290	U	Hexachlorobenzene	290	U
Isophorone	290	U	Pentachlorophenol	580	U
2-Nitrophenol	290	U	Phenanthrene	290	U
2,4-Dimethylphenol	290	U	Anthracene	290	U
Benzoic acid	580	U	Di-n-butylphthalate	290	U
bis(2-Chloroethoxy)methane	290	U	Fluoranthene	290	U
2,4-Dichlorophenol	290	U	Pyrene	290	U
1,2,4-Trichlorobenzene	290	U	Butylbenzylphthalate	290	U
Naphthalene	290	U	3,3'-Dichlorobenzidine	290	U
4-Chloroaniline	290	U	Carbazole	290	U
Hexachlorobutadiene	290	U	Benz[a]anthracene	290	U
4-Chloro-3-methylphenol	290	U	Chrysene	290	U
2-Methylnaphthalene	290	U	bis(2-Ethylhexyl)phthalate	290	U
Hexachlorocyclopentadiene	290	U	Di-n-octylphthalate	290	U
2,4,6-Trichlorophenol	290	U	Benzo[b]fluoranthene	290	U
2,4,5-Trichlorophenol	580	U	Benzo[k]fluoranthene	290	U
2-Chloronaphthalene	290	U	Benzo[a]pyrene	290	U
2-Nitroaniline	580	U	Indeno[1,2,3-cd]pyrene	290	U
Acenaphthylene	290	U	Dibenz[a,h]anthracene	290	U
Dimethylphthalate	290	U	Benzo[g,h,i]perylene	290	U
2,6-Dinitrotoluene	290	U			
Acenaphthene	290	U			

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	55	25-121
Phenol-d5	60	24-113
Nitrobenzene-d5	56	23-120
2-Fluorobiphenyl	59	30-115
2,4,6-Tribromophenol	69	19-122
Terphenyl-d14	61	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-19SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-17**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/15/01	03/16/01	75.4	20.07	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	330	U
Phenol	330	U
2-Chlorophenol	330	U
1,3-Dichlorobenzene	330	U
1,4-Dichlorobenzene	330	U
1,2-Dichlorobenzene	330	U
Benzyl alcohol	3300	U
bis(2-chloroisopropyl)ether	330	U
2-Methylphenol	330	U
Hexachloroethane	330	U
N-Nitroso-di-n-propylamine	330	U
4-Methylphenol	330	U
Nitrobenzene	330	U
Isophorone	330	U
2-Nitrophenol	330	U
2,4-Dimethylphenol	330	U
Benzoic acid	660	U
bis(2-Chloroethoxy)methane	330	U
2,4-Dichlorophenol	330	U
1,2,4-Trichlorobenzene	330	U
Naphthalene	330	U
4-Chloroaniline	330	U
Hexachlorobutadiene	330	U
4-Chloro-3-methylphenol	330	U
2-Methylnaphthalene	330	U
Hexachlorocyclopentadiene	330	U
2,4,6-Trichlorophenol	330	U
2,4,5-Trichlorophenol	660	U
2-Chloronaphthalene	330	U
2-Nitroaniline	660	U
Acenaphthylene	330	U
Dimethylphthalate	330	U
2,6-Dinitrotoluene	330	U
Acenaphthene	330	U

Parameter	Result	
3-Nitroaniline	660	U
2,4-Dinitrophenol	660	U
Dibenzofuran	330	U
2,4-Dinitrotoluene	330	U
4-Nitrophenol	660	U
Fluorene	330	U
4-Chlorophenyl-phenylether	330	U
Diethylphthalate	330	U
4-Nitroaniline	660	U
4,6-Dinitro-2-methylphenol	660	U
n-Nitrosodiphenylamine	330	U
4-Bromophenyl-phenylether	330	U
Hexachlorobenzene	330	U
Pentachlorophenol	660	U
Phenanthrene	330	U
Anthracene	330	U
Di-n-butylphthalate	330	U
Fluoranthene	330	U
Pyrene	**61**	J
Butylbenzylphthalate	330	U
3,3'-Dichlorobenzidine	330	U
Carbazole	330	U
Benz[a]anthracene	330	U
Chrysene	330	U
bis(2-Ethylhexyl)phthalate	330	U
Di-n-octylphthalate	330	U
Benzo[b]fluoranthene	330	U
Benzo[k]fluoranthene	330	U
Benzo[a]pyrene	330	U
Indeno[1,2,3-cd]pyrene	330	U
Dibenz[a,h]anthracene	330	U
Benzo[g,h,i]perylene	330	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	65	25-121
Phenol-d5	69	24-113
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	80	19-122
Terphenyl-d14	69	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **SS0315B2**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/15/01	03/16/01	100	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
Benzyl alcohol	2500	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
Benzoic acid	500	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U

Parameter	Result	
3-Nitroaniline	500	U
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	54	25-121
Phenol-d5	56	24-113
Nitrobenzene-d5	53	23-120
2-Fluorobiphenyl	54	30-115
2,4,6-Tribromophenol	58	19-122
Terphenyl-d14	57	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **SS0315L2**
Associated Blank: **SS0315B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/15/01	100	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	4600	46	26-90
2-Chlorophenol	5000	50	25-102
1,4-Dichlorobenzene	2200	45	28-104
N-Nitroso-di-n-propylamine	2400	48	41-126
1,2,4-Trichlorobenzene	2400	48	38-107
4-Chloro-3-methylphenol	5700	57	26-103
Acenaphthene	2500	50	31-137
2,4-Dinitrotoluene	2500	51	28-89
4-Nitrophenol	5300	53	11-114
Pentachlorophenol	4700	47	17-109
Pyrene	2600	52	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	50	25-121
Phenol-d5	50	24-113
Nitrobenzene-d5	51	23-120
2-Fluorobiphenyl	49	30-115
2,4,6-Tribromophenol	56	19-122
Terphenyl-d14	52	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-10SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-01**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	85.9	4.7	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.5	U	2-Hexanone	2.5	U
Chloromethane	2.5	U	Tetrachloroethene	2.5	U
Vinyl chloride	2.5	U	1,3-Dichloropropane	2.5	U
Bromomethane	2.5	U	Dibromochloromethane	2.5	U
Chloroethane	2.5	U	1,2-Dibromoethane	2.5	U
Trichlorofluoromethane	2.5	U	Chlorobenzene	2.5	U
Acetone	**31**	B	1,1,1,2-Tetrachloroethane	2.5	U
1,1-Dichloroethene	2.5	U	Ethylbenzene	2.5	U
Carbon disulfide	2.5	U	p/m-Xylene	5.0	U
Methylene chloride	**3.3**	JB	o-Xylene	2.5	U
Methyl tert-butyl ether (MTBE)	2.5	U	Styrene	2.5	U
trans-1,2-Dichloroethene	2.5	U	Bromoform	2.5	U
1,1-Dichloroethane	2.5	U	Isopropylbenzene	2.5	U
Vinyl acetate	2.5	U	1,1,2,2-Tetrachloroethane	2.5	U
2-Butanone (MEK)	2.5	U	Bromobenzene	2.5	U
cis-1,2-Dichloroethene	2.5	U	1,2,3-Trichloropropane	2.5	U
2,2-Dichloropropane	2.5	U	n-Propylbenzene	2.5	U
Chloroform	2.5	U	2-Chlorotoluene	2.5	U
1,1,1-Trichloroethane	2.5	U	1,3,5-Trimethylbenzene	2.5	U
1,1-Dichloropropene	2.5	U	4-Chlorotoluene	2.5	U
Carbon tetrachloride	2.5	U	tert-Butylbenzene	2.5	U
Benzene	**2.6**		1,2,4-Trimethylbenzene	2.5	U
1,2-Dichloroethane	2.5	U	sec-Butylbenzene	2.5	U
Trichloroethene	2.5	U	1,3-Dichlorobenzene	2.5	U
1,2-Dichloropropane	2.5	U	p-Isopropyltoluene	2.5	U
Dibromomethane	2.5	U	1,4-Dichlorobenzene	2.5	U
Bromodichloromethane	2.5	U	n-Butylbenzene	2.5	U
2-Chloroethylvinyl ether	2.5	U	1,2-Dichlorobenzene	2.5	U
Methyl isobutyl ketone (MIBK)	2.5	U	1,2-Dibromo-3-chloropropane	2.5	U
cis-1,3-Dichloropropene	2.5	U	1,2,4-Trichlorobenzene	2.5	U
Toluene	**1.5**	J	Hexachlorobutadiene	2.5	U
trans-1,3-Dichloropropene	2.5	U	Naphthalene	**12**	
1,1,2-Trichloroethane	2.5	U	1,2,3-Trichlorobenzene	2.5	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	89	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-10NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-02**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	95.7	5.08	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	2.1	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	2.1	U	Chlorobenzene	2.1	U
Acetone	**14**	B	1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	4.1	U
Methylene chloride	**2.7**	JB	o-Xylene	2.1	U
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	2.1	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	2.1	U	Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	2.1	U	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	**5.3**	
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	97	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-10ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-03**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	86.8	5.07	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**28**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.5	U
Methylene chloride	**3.1**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	2.3	U	Bromobenzene	2.3	U
cis-1,2-Dichloroethene	**3.8**		1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	**3.8**		1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	2.3	U
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	91	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-11SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-04**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	83.4	5.57	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**25**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.3	U
Methylene chloride	**3.4**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	2.2	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	2.2	U	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	**2.2**		1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	**11**	
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	106	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	92	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-11ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-05**
Associated Blank: **B2031902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/19/01	88.9	6	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	1.9	U	2-Hexanone	1.9	U
Chloromethane	1.9	U	Tetrachloroethene	1.9	U
Vinyl chloride	1.9	U	1,3-Dichloropropane	1.9	U
Bromomethane	1.9	U	Dibromochloromethane	1.9	U
Chloroethane	1.9	U	1,2-Dibromoethane	1.9	U
Trichlorofluoromethane	1.9	U	Chlorobenzene	1.9	U
Acetone	**36**	B	1,1,1,2-Tetrachloroethane	1.9	U
1,1-Dichloroethene	1.9	U	Ethylbenzene	1.9	U
Carbon disulfide	1.9	U	p/m-Xylene	3.7	U
Methylene chloride	**2.7**	JB	o-Xylene	1.9	U
Methyl tert-butyl ether (MTBE)	1.9	U	Styrene	1.9	U
trans-1,2-Dichloroethene	1.9	U	Bromoform	1.9	U
1,1-Dichloroethane	1.9	U	Isopropylbenzene	1.9	U
Vinyl acetate	1.9	U	1,1,2,2-Tetrachloroethane	1.9	U
2-Butanone (MEK)	1.9	U	Bromobenzene	1.9	U
cis-1,2-Dichloroethene	1.9	U	1,2,3-Trichloropropane	1.9	U
2,2-Dichloropropane	1.9	U	n-Propylbenzene	1.9	U
Chloroform	1.9	U	2-Chlorotoluene	1.9	U
1,1,1-Trichloroethane	1.9	U	1,3,5-Trimethylbenzene	1.9	U
1,1-Dichloropropene	1.9	U	4-Chlorotoluene	1.9	U
Carbon tetrachloride	1.9	U	tert-Butylbenzene	1.9	U
Benzene	1.9	U	1,2,4-Trimethylbenzene	1.9	U
1,2-Dichloroethane	1.9	U	sec-Butylbenzene	1.9	U
Trichloroethene	**5.6**		1,3-Dichlorobenzene	1.9	U
1,2-Dichloropropane	1.9	U	p-Isopropyltoluene	1.9	U
Dibromomethane	1.9	U	1,4-Dichlorobenzene	1.9	U
Bromodichloromethane	1.9	U	n-Butylbenzene	1.9	U
2-Chloroethylvinyl ether	1.9	U	1,2-Dichlorobenzene	1.9	U
Methyl isobutyl ketone (MIBK)	1.9	U	1,2-Dibromo-3-chloropropane	1.9	U
cis-1,3-Dichloropropene	1.9	U	1,2,4-Trichlorobenzene	1.9	U
Toluene	1.9	U	Hexachlorobutadiene	1.9	U
trans-1,3-Dichloropropene	1.9	U	Naphthalene	**6.2**	
1,1,2-Trichloroethane	1.9	U	1,2,3-Trichlorobenzene	1.9	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	93	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-12SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-06**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	79	4.38	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.9	U	2-Hexanone	2.9	U
Chloromethane	2.9	U	Tetrachloroethene	2.9	U
Vinyl chloride	2.9	U	1,3-Dichloropropane	2.9	U
Bromomethane	2.9	U	Dibromochloromethane	2.9	U
Chloroethane	2.9	U	1,2-Dibromoethane	2.9	U
Trichlorofluoromethane	2.9	U	Chlorobenzene	2.9	U
Acetone	**73**	B	1,1,1,2-Tetrachloroethane	2.9	U
1,1-Dichloroethene	2.9	U	Ethylbenzene	2.9	U
Carbon disulfide	2.9	U	p/m-Xylene	5.8	U
Methylene chloride	**3.6**	JB	o-Xylene	2.9	U
Methyl tert-butyl ether (MTBE)	2.9	U	Styrene	2.9	U
trans-1,2-Dichloroethene	2.9	U	Bromoform	2.9	U
1,1-Dichloroethane	2.9	U	Isopropylbenzene	2.9	U
Vinyl acetate	2.9	U	1,1,2,2-Tetrachloroethane	2.9	U
2-Butanone (MEK)	2.9	U	Bromobenzene	2.9	U
cis-1,2-Dichloroethene	2.9	U	1,2,3-Trichloropropane	2.9	U
2,2-Dichloropropane	2.9	U	n-Propylbenzene	2.9	U
Chloroform	2.9	U	2-Chlorotoluene	2.9	U
1,1,1-Trichloroethane	2.9	U	1,3,5-Trimethylbenzene	2.9	U
1,1-Dichloropropene	2.9	U	4-Chlorotoluene	2.9	U
Carbon tetrachloride	2.9	U	tert-Butylbenzene	2.9	U
Benzene	2.9	U	1,2,4-Trimethylbenzene	2.9	U
1,2-Dichloroethane	2.9	U	sec-Butylbenzene	2.9	U
Trichloroethene	**5.4**		1,3-Dichlorobenzene	2.9	U
1,2-Dichloropropane	2.9	U	p-Isopropyltoluene	2.9	U
Dibromomethane	2.9	U	1,4-Dichlorobenzene	2.9	U
Bromodichloromethane	2.9	U	n-Butylbenzene	2.9	U
2-Chloroethylvinyl ether	2.9	U	1,2-Dichlorobenzene	2.9	U
Methyl isobutyl ketone (MIBK)	2.9	U	1,2-Dibromo-3-chloropropane	2.9	U
cis-1,3-Dichloropropene	2.9	U	1,2,4-Trichlorobenzene	2.9	U
Toluene	2.9	U	Hexachlorobutadiene	2.9	U
trans-1,3-Dichloropropene	2.9	U	Naphthalene	**1.8**	J
1,1,2-Trichloroethane	2.9	U	1,2,3-Trichlorobenzene	2.9	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	96	87-108
4-Bromofluorobenzene	85	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-12ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-07**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	93	5.49	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**11**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	3.9	U
Methylene chloride	**2.1**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	**16**	
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	96	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-12SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-08**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	80.2	5.5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**22**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.5	U
Methylene chloride	**3.0**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	2.3	U	Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	**3.0**	
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	94	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-13SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-09**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	88.7	5.52	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**24**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.1	U
Methylene chloride	**2.8**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	95	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-13SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-10**
Associated Blank: **B2031902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/19/01	87.2	5.88	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**540**	EB	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	**1.0**	J
Carbon disulfide	2.0	U	p/m-Xylene	**3.3**	J
Methylene chloride	**3.6**	JB	o-Xylene	**2.8**	
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	**12**		1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	**4.2**		Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	**1.0**	J
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	84	77-113

B - Found in associated blank as well as sample.
E - Estimated value, above quantitation limit.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-13SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-10E**
Associated Blank: **B2031903**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Methanol Volume (ml)	Sample Amount (g)	Extract Volume (ml)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/19/01	87.2	5	5.6	0.1	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	100	U	2-Hexanone	100	U
Chloromethane	100	U	Tetrachloroethene	100	U
Vinyl chloride	100	U	1,3-Dichloropropane	100	U
Bromomethane	**76**	JB	Dibromochloromethane	100	U
Chloroethane	100	U	1,2-Dibromoethane	100	U
Trichlorofluoromethane	100	U	Chlorobenzene	100	U
Acetone	**630**	B	1,1,1,2-Tetrachloroethane	100	U
1,1-Dichloroethene	100	U	Ethylbenzene	100	U
Carbon disulfide	100	U	p/m-Xylene	200	U
Methylene chloride	**250**	JB	o-Xylene	100	U
Methyl tert-butyl ether (MTBE)	100	U	Styrene	100	U
trans-1,2-Dichloroethene	100	U	Bromoform	100	U
1,1-Dichloroethane	100	U	Isopropylbenzene	100	U
Vinyl acetate	100	U	1,1,2,2-Tetrachloroethane	100	U
2-Butanone (MEK)	**140**	B	Bromobenzene	100	U
cis-1,2-Dichloroethene	100	U	1,2,3-Trichloropropane	100	U
2,2-Dichloropropane	100	U	n-Propylbenzene	100	U
Chloroform	100	U	2-Chlorotoluene	100	U
1,1,1-Trichloroethane	100	U	1,3,5-Trimethylbenzene	100	U
1,1-Dichloropropene	100	U	4-Chlorotoluene	100	U
Carbon tetrachloride	100	U	tert-Butylbenzene	100	U
Benzene	100	U	1,2,4-Trimethylbenzene	100	U
1,2-Dichloroethane	100	U	sec-Butylbenzene	100	U
Trichloroethene	100	U	1,3-Dichlorobenzene	100	U
1,2-Dichloropropane	100	U	p-Isopropyltoluene	100	U
Dibromomethane	100	U	1,4-Dichlorobenzene	100	U
Bromodichloromethane	100	U	n-Butylbenzene	100	U
2-Chloroethylvinyl ether	100	U	1,2-Dichlorobenzene	100	U
Methyl isobutyl ketone (MIBK)	100	U	1,2-Dibromo-3-chloropropane	100	U
cis-1,3-Dichloropropene	100	U	1,2,4-Trichlorobenzene	100	U
Toluene	100	U	Hexachlorobutadiene	100	U
trans-1,3-Dichloropropene	100	U	Naphthalene	**57**	J
1,1,2-Trichloroethane	100	U	1,2,3-Trichlorobenzene	100	U

Surrogate	% Recovery	Acceptance Range (%)
2-Bromo-1-chloropropane	89	70-130
1-Chloro-2-fluorobenzene	97	70-130
1,4-Dichlorobutane	90	70-130
Dibromofluoromethane	97	78-118
Toluene-d8	102	87-113
4-Bromofluorobenzene	105	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-14SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-11**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	87.4	5.49	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	2.1	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	2.1	U	Chlorobenzene	**1.1**	**J**
Acetone	**40**	B	1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	4.2	U
Methylene chloride	**2.6**	JB	o-Xylene	2.1	U
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	2.1	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	2.1	U	Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	2.1	U	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	2.1	U
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	90	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-15SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-12**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	97	6.21	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	1.7	U	2-Hexanone	1.7	U
Chloromethane	1.7	U	Tetrachloroethene	1.7	U
Vinyl chloride	1.7	U	1,3-Dichloropropane	1.7	U
Bromomethane	1.7	U	Dibromochloromethane	1.7	U
Chloroethane	1.7	U	1,2-Dibromoethane	1.7	U
Trichlorofluoromethane	1.7	U	Chlorobenzene	1.7	U
Acetone	**6.3**	B	1,1,1,2-Tetrachloroethane	1.7	U
1,1-Dichloroethene	1.7	U	Ethylbenzene	1.7	U
Carbon disulfide	1.7	U	p/m-Xylene	3.3	U
Methylene chloride	**1.4**	JB	o-Xylene	1.7	U
Methyl tert-butyl ether (MTBE)	1.7	U	Styrene	1.7	U
trans-1,2-Dichloroethene	1.7	U	Bromoform	1.7	U
1,1-Dichloroethane	1.7	U	Isopropylbenzene	1.7	U
Vinyl acetate	1.7	U	1,1,2,2-Tetrachloroethane	1.7	U
2-Butanone (MEK)	1.7	U	Bromobenzene	1.7	U
cis-1,2-Dichloroethene	1.7	U	1,2,3-Trichloropropane	1.7	U
2,2-Dichloropropane	1.7	U	n-Propylbenzene	1.7	U
Chloroform	1.7	U	2-Chlorotoluene	1.7	U
1,1,1-Trichloroethane	1.7	U	1,3,5-Trimethylbenzene	1.7	U
1,1-Dichloropropene	1.7	U	4-Chlorotoluene	1.7	U
Carbon tetrachloride	1.7	U	tert-Butylbenzene	1.7	U
Benzene	1.7	U	1,2,4-Trimethylbenzene	1.7	U
1,2-Dichloroethane	1.7	U	sec-Butylbenzene	1.7	U
Trichloroethene	1.7	U	1,3-Dichlorobenzene	1.7	U
1,2-Dichloropropane	1.7	U	p-Isopropyltoluene	1.7	U
Dibromomethane	1.7	U	1,4-Dichlorobenzene	1.7	U
Bromodichloromethane	1.7	U	n-Butylbenzene	1.7	U
2-Chloroethylvinyl ether	1.7	U	1,2-Dichlorobenzene	1.7	U
Methyl isobutyl ketone (MIBK)	1.7	U	1,2-Dibromo-3-chloropropane	1.7	U
cis-1,3-Dichloropropene	1.7	U	1,2,4-Trichlorobenzene	1.7	U
Toluene	1.7	U	Hexachlorobutadiene	1.7	U
trans-1,3-Dichloropropene	1.7	U	Naphthalene	1.7	U
1,1,2-Trichloroethane	1.7	U	1,2,3-Trichlorobenzene	1.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	95	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-15NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-13**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	82.1	5.65	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**31**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.3	U
Methylene chloride	**2.3**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	2.2	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	2.2	U	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	2.2	U	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	2.2	U
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	89	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-16WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-14**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	85.6	5.1	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	**1.4**	J	Chlorobenzene	2.3	U
Acetone	**47**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.6	U
Methylene chloride	**2.7**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	2.3	U	Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	2.3	U
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	87	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-17WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-15**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/16/01	88.8	5.39	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	2.1	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	2.1	U	Chlorobenzene	2.1	U
Acetone	**15**	B	1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	4.2	U
Methylene chloride	**2.2**	JB	o-Xylene	2.1	U
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	2.1	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	2.1	U	Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	2.1	U	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	2.1	U
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	96	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-18WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-16**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/17/01	85.1	5.22	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**80**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.5	U
Methylene chloride	**2.7**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	2.3	U	Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	2.3	U
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	88	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-19SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-17**
Associated Blank: **B2031902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/19/01	75.4	5.79	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**49**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.6	U
Methylene chloride	**2.5**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	2.3	U	Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	**2.0**	J
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	105	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	94	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Trip Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **45575-18**
Associated Blank: **B1031902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/15/01	03/15/01	03/19/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**6.9**		1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**1.2**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	95	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **B2031602**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/16/01	100	5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**2.2**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**2.7**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	97	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **See Below**
Associated Blank: **B2031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	AL

Lab ID:	B2031602	Q2031601	Q2031602

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	22	112	22	112	0	30	60-142
Benzene	2.0	U	22	111	22	110	1	30	56-143
Trichloroethene	2.0	U	22	111	22	112	1	26	76-127
Toluene	2.0	U	21	106	21	106	0	27	52-147
Chlorobenzene	2.0	U	22	109	22	109	0	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	99	99	84-108
Toluene-d8	98	99	87-108
4-Bromofluorobenzene	100	100	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **B1031902**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/19/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	5.0	U	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**1.4**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	97	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **See Below**
Associated Blank: **B1031902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	JAD

Lab ID:	B1031902		Q1031901		Q1031902				
Parameter	**Method Blank Conc.**		**Blank Spike Conc.**	**% Recovery**	**Blank Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
1,1-Dichloroethene	2.0	U	22	111	21	103	8	30	69-148
Benzene	2.0	U	21	107	20	103	4	30	74-136
Trichloroethene	2.0	U	22	108	21	103	4	30	74-139
Toluene	2.0	U	20	100	19	96	4	30	66-139
Chlorobenzene	2.0	U	21	103	20	101	2	30	78-130

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	99	100	84-108
Toluene-d8	98	97	87-108
4-Bromofluorobenzene	99	99	77-113

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N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **B2031902**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/19/01	100	5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**2.0**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**2.5**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	84-108
Toluene-d8	101	87-108
4-Bromofluorobenzene	100	77-113

J - Estimated value, below quantitation limit.
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N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **B2031903**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Methanol Volume (ml)	Sample Amount (g)	Extract Volume (ml)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/19/01	100	5	5	0.1	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	100	U	2-Hexanone	100	U
Chloromethane	100	U	Tetrachloroethene	100	U
Vinyl chloride	100	U	1,3-Dichloropropane	100	U
Bromomethane	**62**	J	Dibromochloromethane	100	U
Chloroethane	100	U	1,2-Dibromoethane	100	U
Trichlorofluoromethane	100	U	Chlorobenzene	100	U
Acetone	**100**	J	1,1,1,2-Tetrachloroethane	100	U
1,1-Dichloroethene	100	U	Ethylbenzene	100	U
Carbon disulfide	100	U	p/m-Xylene	200	U
Methylene chloride	**94**	J	o-Xylene	100	U
Methyl tert-butyl ether (MTBE)	100	U	Styrene	100	U
trans-1,2-Dichloroethene	100	U	Bromoform	100	U
1,1-Dichloroethane	100	U	Isopropylbenzene	100	U
Vinyl acetate	100	U	1,1,2,2-Tetrachloroethane	100	U
2-Butanone (MEK)	**270**		Bromobenzene	100	U
cis-1,2-Dichloroethene	100	U	1,2,3-Trichloropropane	100	U
2,2-Dichloropropane	100	U	n-Propylbenzene	100	U
Chloroform	100	U	2-Chlorotoluene	100	U
1,1,1-Trichloroethane	100	U	1,3,5-Trimethylbenzene	100	U
1,1-Dichloropropene	100	U	4-Chlorotoluene	100	U
Carbon tetrachloride	100	U	tert-Butylbenzene	100	U
Benzene	100	U	1,2,4-Trimethylbenzene	100	U
1,2-Dichloroethane	100	U	sec-Butylbenzene	100	U
Trichloroethene	100	U	1,3-Dichlorobenzene	100	U
1,2-Dichloropropane	100	U	p-Isopropyltoluene	100	U
Dibromomethane	100	U	1,4-Dichlorobenzene	100	U
Bromodichloromethane	100	U	n-Butylbenzene	100	U
2-Chloroethylvinyl ether	100	U	1,2-Dichlorobenzene	100	U
Methyl isobutyl ketone (MIBK)	100	U	1,2-Dibromo-3-chloropropane	100	U
cis-1,3-Dichloropropene	100	U	1,2,4-Trichlorobenzene	100	U
Toluene	100	U	Hexachlorobutadiene	100	U
trans-1,3-Dichloropropene	100	U	Naphthalene	100	U
1,1,2-Trichloroethane	100	U	1,2,3-Trichlorobenzene	100	U

Surrogate	% Recovery	Acceptance Range (%)
2-Bromo-1-chloropropane	105	70-130
1-Chloro-2-fluorobenzene	112	70-130
1,4-Dichlorobutane	105	70-130
Dibromofluoromethane	96	78-118
Toluene-d8	103	87-113
4-Bromofluorobenzene	106	76-120

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145575**
Lab ID: **See Below**
Associated Blank: **B2031902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	AL

Lab ID: B2031902 Q2031901 Q2031903

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	20	99	24	120	19	30	60-142
Benzene	2.0	U	22	109	23	117	7	30	56-143
Trichloroethene	2.0	U	22	111	23	113	2	26	76-127
Toluene	2.0	U	21	106	22	109	3	27	52-147
Chlorobenzene	2.0	U	22	108	22	107	0	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	98	102	84-108
Toluene-d8	100	100	87-108
4-Bromofluorobenzene	102	100	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	Bldg A-85
ETR:	00145569
Report Date:	03/20/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45569
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Semi-Volatile Organics by GC/MS

1. Sample SBNL14-A1-4SS (45569-09) had a low response for the last internal standard, Perylene-d12 due to obvious sample matrix.

Volatile Organics by GC/MS

1. Samples SBNL14-A1-NESW (45569-02) and SBNL14-A1-4SS (45569-09) had a low response for the last internal standard 1,4-Dichlorobenzene-d4 on 3/15/01 and were reanalyzed on 3/16/01. The reanalysis met QC limits for the internal standard, however, the compound Bromomethane recovered low in the Continuing Calibration Verification (CCV) standard analyzed on 3/16/01 that could lead to a low bias in the samples. Both analyses were reported for review.

Metals

Sample SBNL14-A1-1SS (45569-01) was prepared as the QC sample for batch quality control. All QC measures were within method acceptance criteria except the following:

1. Copper: The RPD between duplicates was 24% and exceeds the method acceptance limit of 20%.

   Silver: The RPD between duplicates was 42% and exceeds the method acceptance limit of 20%.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerard R. Tarbox Date: 3-20-01
Woods Hole Group Environmental Laboratories

F:\SHARED\NARRTEMP\FOSWHE\45569.dot

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767
TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA 02110
Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: SUE LEACH | KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/14/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

VOLUME/CONTAINER TYPE/ PRESERVATIVE (NOTE 4): 8oz / GLASS / ICE; 40ml / VOA / NaHSO4; 40ml / VOA / MEOH

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	NUMBER OF CONTAINERS					
45561-1	SBNL14-A1-1SS	3/14/01	1330	GRAB	SOIL	TPH(IR), SVOC, VOC, RCRA 8 PLUS Ni, Cu, Zn	1	2	1			
2	SBNL14-A1-1NESW	↓	1330	↓	↓	↓	↓	↓	↓			
3	SBNL14-A1-1SESW	↓	1330	↓	↓	↓	↓	↓	↓			
4	SBNL14-A1-1NSW	↓	1330	↓	↓	↓	↓	↓	↓			
5	SBNL14-A1-2SS	↓	1335	↓	↓	↓	↓	↓	↓			
6	SBNL14-A1-2ESW	↓	1335	↓	↓	↓	↓	↓	↓			
7	SBNL14-A1-3SS	↓	1340	↓	↓	↓	↓	↓	↓			
8	SBNL14-A1-3ESW	↓	1340	↓	↓	↓	↓	↓	↓			
9	SBNL14-A1-4SS	↓	1345	↓	↓	↓	↓	↓	↓			
10	SBNL14-A1-4ESW	↓	1345	↓	↓	↓	↓	↓	↓			

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. Whitt	3/14/01	1908	Nancy A Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab: TRIP BLANK INCLUDED

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

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Raynham, MA 02767
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COMPANY INFORMATION

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Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: SUE LEACH / KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/14/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

VOLUME/CONTAINER TYPE/ PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE; 40 mL / VOA / NaHSO4; 40 mL / VOA / MEOH

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	NUMBER OF CONTAINERS					
48269-11	SBNL14-A1-5 SS	3/14/01	1350	GRAB	SOIL	TPH(IR), SVOC, VOC, RCRA 8 PLUS Ni, Cu, Zn	1	2	1			
-12	SBNL14-A1-5 ESW	↓	1350	↓	↓							
-13	SBNL14-A1-5 SSW	↓	1350	↓	↓							
-14	SBNL14-A1-6 SS	↓	1355	↓	↓							
-15	SBNL14-A1-6 SSW	↓	1355	↓	↓							
-16	SBNL14-A1-7 SS	↓	1400	↓	↓							
-17	SBNL14-A1-8 SS	↓	1405	↓	↓							
-18	SBNL14-A1-9 SS	↓	1410	↓	↓							
-19	SBNL14-A1-9 NSW	↓	1410	↓	↓							

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. Whitt	3/14/01	1908	Nancy A Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
TRIP BLANK INCLUDED

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145569-01	SBNL14-A1-1 SS	SOIL	03/14/2001 1:30:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145569-02	SBNL14-A1-1 NESW	SOIL	03/14/2001 1:30:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145569-03	SBNL14-A1-1 SESW	SOIL	03/14/2001 1:30:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145569-04	SBNL14-A1-1 NSW	SOIL	03/14/2001 1:30:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145569-05	SBNL14-A1-2 SS	SOIL	03/14/2001 1:35:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145569-06	SBNL14-A1-2 ESW	SOIL	03/14/2001 1:35:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145569-07	SBNL14-A1-3 SS	SOIL	03/14/2001 1:40:00 PM	03/14/2001 7:08:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145569-08	SBNL14-A1-3 ESW	SOIL	03/14/2001 1:40:00 PM	03/14/2001 7:08:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			
0145569-09	SBNL14-A1-4 SS	SOIL	03/14/2001 1:45:00 PM	03/14/2001 7:08:00 PM
	Lab Testing:			
	8260B Volatile Organics -- GC/MS			
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145569-10	SBNL14-A1-4 ESW	SOIL	03/14/2001 1:45:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145569-11	SBNL14-A1-5 SS	SOIL	03/14/2001 1:50:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145569-12	SBNL14-A1-5 ESW	SOIL	03/14/2001 1:50:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145569-13	SBNL14-A1-5 SSW	SOIL	03/14/2001 1:50:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145569-14	SBNL14-A1-6 SS	SOIL	03/14/2001 1:55:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145569-15	SBNL14-A1-6 SSW	SOIL	03/14/2001 1:55:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145569-16	SBNL14-A1-7 SS	SOIL	03/14/2001 2:00:00 PM	03/14/2001 7:08:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145569-17	SBNL14-A1-8 SS	SOIL	03/14/2001 2:05:00 PM	03/14/2001 7:08:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			
0145569-18	SBNL14-A1-9 SS	SOIL	03/14/2001 2:10:00 PM	03/14/2001 7:08:00 PM
	Lab Testing:			
	8260B Volatile Organics -- GC/MS			
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145569-19	SBNL14-A1-9 NSW	SOIL	03/14/2001 2:10:00 PM	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145569-20	Trip Blank	SOIL	03/14/2001	03/14/2001 7:08:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-1 SS
Lab ID: 0145569-01

Matrix: SOIL
% SOLIDS: 82%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	20		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Barium, Total	23		mg/kg dry	5	0.078	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.075		mg/kg dry	5	0.039	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	6.4		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Copper, Total	15		mg/kg dry	5	0.39	6020	03/15/2001	03/16/2001	MDM
Lead, Total	45		mg/kg dry	5	0.39	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.026		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	5.2		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.20	U	mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.15		mg/kg dry	5	0.040	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	36		mg/kg dry	5	0.78	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-1 NESW
Lab ID: 0145569-02

Matrix: SOIL
% SOLIDS: 92%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	5.3		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Barium, Total	18		mg/kg dry	5	0.067	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.14		mg/kg dry	5	0.034	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	6.8		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Copper, Total	30		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Lead, Total	56		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.036		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	5.6		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.50		mg/kg dry	5	0.034	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	56		mg/kg dry	5	0.67	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-1 SESW
Lab ID: 0145569-03

Matrix: SOIL
% SOLIDS: 93%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	59		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Barium, Total	20		mg/kg dry	5	0.068	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.12		mg/kg dry	5	0.034	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	7.4		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Copper, Total	18		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Lead, Total	54		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.037		mg/kg dry	1	0.010	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	7.9		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.078		mg/kg dry	5	0.035	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	48		mg/kg dry	5	0.68	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-1 NSW
Lab ID: 0145569-04

Matrix: SOIL
% SOLIDS: 85%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	80		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	37		mg/kg dry	5	0.072	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.058		mg/kg dry	5	0.036	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	9.9		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	10		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Lead, Total	21		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.019		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	6.6		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.049		mg/kg dry	5	0.039	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	29		mg/kg dry	5	0.72	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-2 SS
Lab ID: 0145569-05

Matrix: SOIL
% SOLIDS: 79%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	97		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	40		mg/kg dry	5	0.073	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.34		mg/kg dry	5	0.036	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	16		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	21		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Lead, Total	44		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.062		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	14		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.27		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.12		mg/kg dry	5	0.042	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	68		mg/kg dry	5	0.73	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-2 ESW
Lab ID: 0145569-06

Matrix: SOIL
% SOLIDS: 91%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.4		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	20		mg/kg dry	5	0.071	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.075		mg/kg dry	5	0.035	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	6.9		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	6.8		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Lead, Total	15		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.013		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	5.8		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.036		mg/kg dry	5	0.035	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	17		mg/kg dry	5	0.71	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-3 SS
Lab ID: 0145569-07

Matrix: SOIL
% SOLIDS: 92%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	5.2		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	38		mg/kg dry	5	0.072	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.23		mg/kg dry	5	0.036	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	8.3		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	26		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Lead, Total	110		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.030		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	7.0		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.041		mg/kg dry	5	0.035	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	29		mg/kg dry	5	0.72	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-3 ESW
Lab ID: 0145569-08

Matrix: SOIL
% SOLIDS: 89%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	5.8		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Barium, Total	44		mg/kg dry	5	0.066	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.053		mg/kg dry	5	0.033	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	14		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Copper, Total	12		mg/kg dry	5	0.33	6020	03/15/2001	03/16/2001	MDM
Lead, Total	16		mg/kg dry	5	0.33	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.15		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	11		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.070		mg/kg dry	5	0.035	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	35		mg/kg dry	5	0.66	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-4 SS
Lab ID: 0145569-09

Matrix: SOIL
% SOLIDS: 84%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.3		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Barium, Total	69		mg/kg dry	5	0.079	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.15		mg/kg dry	5	0.039	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	11		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Copper, Total	36		mg/kg dry	5	0.39	6020	03/15/2001	03/16/2001	MDM
Lead, Total	62		mg/kg dry	5	0.39	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.21		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	8.1		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.20	U	mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.074		mg/kg dry	5	0.037	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	100		mg/kg dry	5	0.79	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-4 ESW
Lab ID: 0145569-10

Matrix: SOIL
% SOLIDS: 90%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	17		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	18		mg/kg dry	5	0.071	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.12		mg/kg dry	5	0.035	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	5.8		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	11		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Lead, Total	110		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.062		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	6.1		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.14		mg/kg dry	5	0.029	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	34		mg/kg dry	5	0.71	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-5 SS
Lab ID: 0145569-11

Matrix: SOIL
% SOLIDS: 89%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.8		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Barium, Total	27		mg/kg dry	5	0.070	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.054		mg/kg dry	5	0.035	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	6.4		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Copper, Total	7.2		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Lead, Total	26		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.047		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	4.7		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.032	U	mg/kg dry	5	0.032	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	25		mg/kg dry	5	0.70	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-5 ESW
Lab ID: 0145569-12

Matrix: SOIL
% SOLIDS: 89%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	7.4		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	21		mg/kg dry	5	0.070	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.29		mg/kg dry	5	0.035	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	7.6		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	7.9		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Lead, Total	8.9		mg/kg dry	5	0.35	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.013		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	5.3		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.037		mg/kg dry	5	0.033	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	30		mg/kg dry	5	0.70	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-5 SSW
Lab ID: 0145569-13

Matrix: SOIL
% SOLIDS: 87%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.9		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Barium, Total	18		mg/kg dry	5	0.064	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.037		mg/kg dry	5	0.032	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	8.0		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Copper, Total	8.5		mg/kg dry	5	0.32	6020	03/15/2001	03/16/2001	MDM
Lead, Total	40		mg/kg dry	5	0.32	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.063		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	4.9		mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.22		mg/kg dry	5	0.037	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	16		mg/kg dry	5	0.64	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-6 SS
Lab ID: 0145569-14

Matrix: SOIL
% SOLIDS: 89%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.2		mg/kg dry	5	0.19	6020	03/15/2001	03/16/2001	MDM
Barium, Total	24		mg/kg dry	5	0.075	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.037	U	mg/kg dry	5	0.037	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	8.0		mg/kg dry	5	0.19	6020	03/15/2001	03/16/2001	MDM
Copper, Total	5.8		mg/kg dry	5	0.37	6020	03/15/2001	03/16/2001	MDM
Lead, Total	3.4		mg/kg dry	5	0.37	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.013		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	5.6		mg/kg dry	5	0.19	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.19	U	mg/kg dry	5	0.19	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.033	U	mg/kg dry	5	0.033	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	16		mg/kg dry	5	0.75	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-6 SSW
Lab ID: 0145569-15

Matrix: SOIL
% SOLIDS: 83%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	8.5		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Barium, Total	18		mg/kg dry	5	0.079	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.21		mg/kg dry	5	0.039	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	9.2		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Copper, Total	8.2		mg/kg dry	5	0.39	6020	03/15/2001	03/16/2001	MDM
Lead, Total	26		mg/kg dry	5	0.39	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.067		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	8.1		mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.20	U	mg/kg dry	5	0.20	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.16		mg/kg dry	5	0.031	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	110		mg/kg dry	5	0.79	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-7 SS
Lab ID: 0145569-16

Matrix: SOIL
% SOLIDS: 87%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.5		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	31		mg/kg dry	5	0.073	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.036	U	mg/kg dry	5	0.036	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	9.3		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	8.3		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Lead, Total	8.7		mg/kg dry	5	0.36	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.012		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	6.7		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.19		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.034		mg/kg dry	5	0.032	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	19		mg/kg dry	5	0.73	6020	03/15/2001	03/16/2001	MDM

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N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-8 SS
Lab ID: 0145569-17

Matrix: SOIL
% SOLIDS: 86%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.4		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Barium, Total	57		mg/kg dry	5	0.067	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.084		mg/kg dry	5	0.034	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	10		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Copper, Total	24		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Lead, Total	20		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.028		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	8.0		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.042		mg/kg dry	5	0.034	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	49		mg/kg dry	5	0.67	6020	03/15/2001	03/16/2001	MDM

Sample ID: SBNL14-A1-9 SS
Lab ID: 0145569-18

Matrix: SOIL
% SOLIDS: 86%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.6		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Barium, Total	47		mg/kg dry	5	0.067	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.075		mg/kg dry	5	0.034	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	13		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Copper, Total	23		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Lead, Total	19		mg/kg dry	5	0.34	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.026		mg/kg dry	1	0.011	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	9.8		mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.12		mg/kg dry	5	0.038	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	37		mg/kg dry	5	0.67	6020	03/15/2001	03/16/2001	MDM

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N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-9 NSW
Lab ID: 0145569-19

Matrix: SOIL
% SOLIDS: 81%

Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.6		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Barium, Total	36		mg/kg dry	5	0.073	6020	03/15/2001	03/16/2001	MDM
Cadmium, Total	0.059		mg/kg dry	5	0.037	6020	03/15/2001	03/16/2001	MDM
Chromium, Total	12		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Copper, Total	13		mg/kg dry	5	0.37	6020	03/15/2001	03/16/2001	MDM
Lead, Total	14		mg/kg dry	5	0.37	6020	03/15/2001	03/16/2001	MDM
Mercury, Total	0.020		mg/kg dry	1	0.012	7471	03/15/2001	03/16/2001	DJL
Nickel, Total	7.7		mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/15/2001	03/16/2001	MDM
Silver, Total	0.098		mg/kg dry	5	0.040	6020	03/15/2001	03/19/2001	BHH
Zinc, Total	29		mg/kg dry	5	0.73	6020	03/15/2001	03/16/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler
Project: Bldg A-85
ETR: 45569

Parameter	sample ID	analysis date	Blank (ug/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	quali -fier
Arsenic	45569-01	03/16/01	<2.5	20	10	325	92	136	94	
Barium	45569-01	03/16/01	<1.0	23	4	325	83	132	87	
Cadmium	45569-01	03/16/01	<0.5	0.075	3	3.03	94	121	95	
Chromium	45569-01	03/16/01	<2.5	6.4	11	3.03	99	89.7	87	
Copper	45569-01	03/16/01	<5.0	15	24	325	83	118	101	N
Lead	45569-01	03/16/01	<5.0	45	2	325	82	144	87	
Mercury	45569-01	03/16/01	<0.1	0.026	4	0.29	101	2.48	104	
Nickel	45569-01	03/16/01	<2.5	5.2	2	3.03	86	161	91	
Selenium	45569-01	03/16/01	<2.5	<0.20	0	3.03	93	95.0	99	
Silver	45569-01	03/16/01	<0.5	0.15	42	3.39	108	119	102	N
Zinc	45569-01	03/16/01	<10	36	8	325	94	72.1	101	

Qualifiers & Notes:
B=Reported QC is for associated batch
RPD = relative percent difference
C= Sample spiked less than 0.25X sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-1 SS
Lab ID: 0145569-01
Matrix: SOIL
% SOLIDS: 82%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	180		mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-1 NESW
Lab ID: 0145569-02
Matrix: SOIL
% SOLIDS: 92%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	220		mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-1 SESW
Lab ID: 0145569-03
Matrix: SOIL
% SOLIDS: 93%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-1 NSW
Lab ID: 0145569-04
Matrix: SOIL
% SOLIDS: 85%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	60		mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-2 SS
Lab ID: 0145569-05
Matrix: SOIL
% SOLIDS: 79%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-2 ESW
Lab ID: 0145569-06
Matrix: SOIL
% SOLIDS: 91%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-3 SS
Lab ID: 0145569-07
Matrix: SOIL
% SOLIDS: 92%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-3 ESW
Lab ID: 0145569-08
Matrix: SOIL
% SOLIDS: 89%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-4 SS
Lab ID: 0145569-09
Matrix: SOIL
% SOLIDS: 84%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	1800		mg/kg dry	1	50	418.1	03/20/2001	DMJ

Sample ID: SBNL14-A1-4 ESW
Lab ID: 0145569-10
Matrix: SOIL
% SOLIDS: 90%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	160		mg/kg dry	1	50	418.1	03/20/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-5 SS
Lab ID: 0145569-11
Matrix: SOIL
% SOLIDS: 89%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-5 ESW
Lab ID: 0145569-12
Matrix: SOIL
% SOLIDS: 89%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-5 SSW
Lab ID: 0145569-13
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-6 SS
Lab ID: 0145569-14
Matrix: SOIL
% SOLIDS: 89%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-6 SSW
Lab ID: 0145569-15
Matrix: SOIL
% SOLIDS: 83%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145569
Project: Bldg A-85

Sample ID: SBNL14-A1-7 SS
Lab ID: 0145569-16
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-8 SS
Lab ID: 0145569-17
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-9 SS
Lab ID: 0145569-18
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50	U	mg/kg dry	1	50	418.1	03/20/2001	MAK

Sample ID: SBNL14-A1-9 NSW
Lab ID: 0145569-19
Matrix: SOIL
% SOLIDS: 81%
Date Collected: 03/14/2001
Date Received: 03/14/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	190		mg/kg dry	1	50	418.1	03/20/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-01**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/16/01	82.3	20.75	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	590	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	290	U
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	290	U
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	590	U
2-Chloronaphthalene	290	U
2-Nitroaniline	590	U
Acenaphthylene	**250**	J
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	290	U

Parameter	Result	
3-Nitroaniline	590	U
2,4-Dinitrophenol	590	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	590	U
Fluorene	290	U
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	590	U
4,6-Dinitro-2-methylphenol	590	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	590	U
Phenanthrene	**300**	
Anthracene	**160**	J
Di-n-butylphthalate	290	U
Fluoranthene	**1100**	
Pyrene	**1300**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	**58**	J
Benz[a]anthracene	**730**	
Chrysene	**920**	
bis(2-Ethylhexyl)phthalate	**92**	J
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**1000**	
Benzo[k]fluoranthene	**850**	
Benzo[a]pyrene	**810**	
Indeno[1,2,3-cd]pyrene	**280**	J
Dibenz[a,h]anthracene	**87**	J
Benzo[g,h,i]perylene	**230**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	56	25-121
Phenol-d5	61	24-113
Nitrobenzene-d5	54	23-120
2-Fluorobiphenyl	54	30-115
2,4,6-Tribromophenol	72	19-122
Terphenyl-d14	65	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 NESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-02**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/16/01	92.3	20.08	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
Benzyl alcohol	2700	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
Benzoic acid	**62**	J
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	270	U
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	270	U
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	540	U
2-Chloronaphthalene	270	U
2-Nitroaniline	540	U
Acenaphthylene	270	U
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	270	U

Parameter	Result	
3-Nitroaniline	540	U
2,4-Dinitrophenol	540	U
Dibenzofuran	270	U
2,4-Dinitrotoluene	270	U
4-Nitrophenol	540	U
Fluorene	270	U
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	540	U
4,6-Dinitro-2-methylphenol	540	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	540	U
Phenanthrene	**250**	J
Anthracene	**84**	J
Di-n-butylphthalate	270	U
Fluoranthene	**400**	
Pyrene	**370**	
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	270	U
Benz[a]anthracene	**170**	J
Chrysene	**190**	J
bis(2-Ethylhexyl)phthalate	**520**	
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**250**	J
Benzo[k]fluoranthene	**150**	J
Benzo[a]pyrene	**160**	J
Indeno[1,2,3-cd]pyrene	**51**	J
Dibenz[a,h]anthracene	270	U
Benzo[g,h,i]perylene	270	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	52	25-121
Phenol-d5	54	24-113
Nitrobenzene-d5	48	23-120
2-Fluorobiphenyl	49	30-115
2,4,6-Tribromophenol	58	19-122
Terphenyl-d14	57	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 SESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-03**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	92.5	20.48	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
Benzyl alcohol	2600	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
Benzoic acid	530	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	530	U
2-Chloronaphthalene	260	U
2-Nitroaniline	530	U
Acenaphthylene	260	U
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U

Parameter	Result	
3-Nitroaniline	530	U
2,4-Dinitrophenol	530	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	530	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	530	U
4,6-Dinitro-2-methylphenol	530	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	530	U
Phenanthrene	**100**	J
Anthracene	260	U
Di-n-butylphthalate	260	U
Fluoranthene	**180**	J
Pyrene	**160**	J
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	**61**	J
Chrysene	**100**	J
bis(2-Ethylhexyl)phthalate	**91**	J
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**87**	J
Benzo[k]fluoranthene	**65**	J
Benzo[a]pyrene	**70**	J
Indeno[1,2,3-cd]pyrene	260	U
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	260	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	59	25-121
Phenol-d5	65	24-113
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	74	19-122
Terphenyl-d14	67	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-04**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	85.2	20.58	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	280	U
2-Nitroaniline	570	U
Acenaphthylene	**53**	J
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	570	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	570	U
Phenanthrene	**330**	
Anthracene	**96**	J
Di-n-butylphthalate	280	U
Fluoranthene	**520**	
Pyrene	**470**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	**54**	J
Benz[a]anthracene	**230**	J
Chrysene	**280**	J
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**320**	
Benzo[k]fluoranthene	**200**	J
Benzo[a]pyrene	**250**	J
Indeno[1,2,3-cd]pyrene	**120**	J
Dibenz[a,h]anthracene	280	U
Benzo[g,h,i]perylene	**110**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	60	25-121
Phenol-d5	64	24-113
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	73	19-122
Terphenyl-d14	65	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-2 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-05**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	79.1	20.58	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	310	U
Phenol	310	U
2-Chlorophenol	310	U
1,3-Dichlorobenzene	310	U
1,4-Dichlorobenzene	310	U
1,2-Dichlorobenzene	310	U
Benzyl alcohol	3100	U
bis(2-chloroisopropyl)ether	310	U
2-Methylphenol	310	U
Hexachloroethane	310	U
N-Nitroso-di-n-propylamine	310	U
4-Methylphenol	310	U
Nitrobenzene	310	U
Isophorone	310	U
2-Nitrophenol	310	U
2,4-Dimethylphenol	310	U
Benzoic acid	610	U
bis(2-Chloroethoxy)methane	310	U
2,4-Dichlorophenol	310	U
1,2,4-Trichlorobenzene	310	U
Naphthalene	**120**	J
4-Chloroaniline	310	U
Hexachlorobutadiene	310	U
4-Chloro-3-methylphenol	310	U
2-Methylnaphthalene	**58**	J
Hexachlorocyclopentadiene	310	U
2,4,6-Trichlorophenol	310	U
2,4,5-Trichlorophenol	610	U
2-Chloronaphthalene	310	U
2-Nitroaniline	610	U
Acenaphthylene	**690**	
Dimethylphthalate	310	U
2,6-Dinitrotoluene	310	U
Acenaphthene	310	U

Parameter	Result	
3-Nitroaniline	610	U
2,4-Dinitrophenol	610	U
Dibenzofuran	310	U
2,4-Dinitrotoluene	310	U
4-Nitrophenol	610	U
Fluorene	**100**	J
4-Chlorophenyl-phenylether	310	U
Diethylphthalate	310	U
4-Nitroaniline	610	U
4,6-Dinitro-2-methylphenol	610	U
n-Nitrosodiphenylamine	310	U
4-Bromophenyl-phenylether	310	U
Hexachlorobenzene	310	U
Pentachlorophenol	610	U
Phenanthrene	**2000**	
Anthracene	**440**	
Di-n-butylphthalate	310	U
Fluoranthene	**4800**	
Pyrene	**4900**	
Butylbenzylphthalate	310	U
3,3'-Dichlorobenzidine	310	U
Carbazole	**350**	
Benz[a]anthracene	**1600**	
Chrysene	**2900**	
bis(2-Ethylhexyl)phthalate	310	U
Di-n-octylphthalate	310	U
Benzo[b]fluoranthene	**3000**	
Benzo[k]fluoranthene	**1500**	
Benzo[a]pyrene	**1900**	
Indeno[1,2,3-cd]pyrene	**870**	
Dibenz[a,h]anthracene	**230**	J
Benzo[g,h,i]perylene	**740**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	58	25-121
Phenol-d5	61	24-113
Nitrobenzene-d5	55	23-120
2-Fluorobiphenyl	55	30-115
2,4,6-Tribromophenol	66	19-122
Terphenyl-d14	59	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-2 ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-06**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	91	20.29	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
Benzyl alcohol	2700	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
Benzoic acid	540	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	270	U
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	270	U
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	540	U
2-Chloronaphthalene	270	U
2-Nitroaniline	540	U
Acenaphthylene	**96**	J
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	270	U

Parameter	Result	
3-Nitroaniline	540	U
2,4-Dinitrophenol	540	U
Dibenzofuran	270	U
2,4-Dinitrotoluene	270	U
4-Nitrophenol	540	U
Fluorene	270	U
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	540	U
4,6-Dinitro-2-methylphenol	540	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	540	U
Phenanthrene	**220**	J
Anthracene	**49**	J
Di-n-butylphthalate	270	U
Fluoranthene	**490**	
Pyrene	**520**	
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	270	U
Benz[a]anthracene	**220**	J
Chrysene	**340**	
bis(2-Ethylhexyl)phthalate	270	U
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**260**	J
Benzo[k]fluoranthene	**230**	J
Benzo[a]pyrene	**240**	J
Indeno[1,2,3-cd]pyrene	**160**	J
Dibenz[a,h]anthracene	270	U
Benzo[g,h,i]perylene	**160**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	65	25-121
Phenol-d5	68	24-113
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	67	30-115
2,4,6-Tribromophenol	80	19-122
Terphenyl-d14	69	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-3 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-07**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	92.3	20.69	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
Benzyl alcohol	2600	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
Benzoic acid	520	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	520	U
2-Chloronaphthalene	260	U
2-Nitroaniline	520	U
Acenaphthylene	**74**	J
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U

Parameter	Result	
3-Nitroaniline	520	U
2,4-Dinitrophenol	520	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	520	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	520	U
4,6-Dinitro-2-methylphenol	520	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	520	U
Phenanthrene	**160**	J
Anthracene	260	U
Di-n-butylphthalate	260	U
Fluoranthene	**460**	
Pyrene	**460**	
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	**180**	J
Chrysene	**280**	
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**250**	J
Benzo[k]fluoranthene	**170**	J
Benzo[a]pyrene	**200**	J
Indeno[1,2,3-cd]pyrene	**130**	J
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	**140**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	72	25-121
Phenol-d5	75	24-113
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	71	30-115
2,4,6-Tribromophenol	88	19-122
Terphenyl-d14	77	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-3 ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-08**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	89	20.59	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
Benzyl alcohol	2700	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
Benzoic acid	550	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	270	U
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	270	U
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	550	U
2-Chloronaphthalene	270	U
2-Nitroaniline	550	U
Acenaphthylene	270	U
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	270	U

Parameter	Result	
3-Nitroaniline	550	U
2,4-Dinitrophenol	550	U
Dibenzofuran	270	U
2,4-Dinitrotoluene	270	U
4-Nitrophenol	550	U
Fluorene	270	U
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	550	U
4,6-Dinitro-2-methylphenol	550	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	550	U
Phenanthrene	270	U
Anthracene	270	U
Di-n-butylphthalate	270	U
Fluoranthene	**150**	J
Pyrene	**160**	J
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	270	U
Benz[a]anthracene	**100**	J
Chrysene	**130**	J
bis(2-Ethylhexyl)phthalate	270	U
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**130**	J
Benzo[k]fluoranthene	**76**	J
Benzo[a]pyrene	**120**	J
Indeno[1,2,3-cd]pyrene	**68**	J
Dibenz[a,h]anthracene	270	U
Benzo[g,h,i]perylene	**73**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	42	25-121
Phenol-d5	45	24-113
Nitrobenzene-d5	42	23-120
2-Fluorobiphenyl	44	30-115
2,4,6-Tribromophenol	48	19-122
Terphenyl-d14	48	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-4 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-09**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/16/01	84.1	20.76	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	**250**	J
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	**140**	J
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	290	U
2-Nitroaniline	570	U
Acenaphthylene	**1200**	
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	**280**	J

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	570	U
Fluorene	**220**	J
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	570	U
Phenanthrene	**1900**	
Anthracene	**910**	
Di-n-butylphthalate	290	U
Fluoranthene	**3800**	
Pyrene	**5200**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	**320**	
Benz[a]anthracene	**2900**	
Chrysene	**3100**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**4200**	
Benzo[k]fluoranthene	**2900**	
Benzo[a]pyrene	**2900**	
Indeno[1,2,3-cd]pyrene	**580**	
Dibenz[a,h]anthracene	**200**	J
Benzo[g,h,i]perylene	**510**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	47	25-121
Phenol-d5	50	24-113
Nitrobenzene-d5	46	23-120
2-Fluorobiphenyl	53	30-115
2,4,6-Tribromophenol	57	19-122
Terphenyl-d14	60	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-4 ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-10**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/16/01	90.1	20.23	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
Benzyl alcohol	2700	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
Benzoic acid	550	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	270	U
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	270	U
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	550	U
2-Chloronaphthalene	270	U
2-Nitroaniline	550	U
Acenaphthylene	**100**	J
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	270	U

Parameter	Result	
3-Nitroaniline	550	U
2,4-Dinitrophenol	550	U
Dibenzofuran	270	U
2,4-Dinitrotoluene	270	U
4-Nitrophenol	550	U
Fluorene	270	U
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	550	U
4,6-Dinitro-2-methylphenol	550	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	550	U
Phenanthrene	**180**	J
Anthracene	**69**	J
Di-n-butylphthalate	270	U
Fluoranthene	**400**	
Pyrene	**390**	
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	**57**	J
Benz[a]anthracene	**150**	J
Chrysene	**270**	J
bis(2-Ethylhexyl)phthalate	270	U
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**300**	
Benzo[k]fluoranthene	**210**	J
Benzo[a]pyrene	**170**	J
Indeno[1,2,3-cd]pyrene	**75**	J
Dibenz[a,h]anthracene	270	U
Benzo[g,h,i]perylene	**69**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	48	25-121
Phenol-d5	51	24-113
Nitrobenzene-d5	47	23-120
2-Fluorobiphenyl	48	30-115
2,4,6-Tribromophenol	54	19-122
Terphenyl-d14	49	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-5 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-11**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/16/01	89	20.87	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
Benzyl alcohol	2700	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
Benzoic acid	540	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	**170**	J
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	**100**	J
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	540	U
2-Chloronaphthalene	270	U
2-Nitroaniline	540	U
Acenaphthylene	**1300**	
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	**53**	J

Parameter	Result	
3-Nitroaniline	540	U
2,4-Dinitrophenol	540	U
Dibenzofuran	270	U
2,4-Dinitrotoluene	270	U
4-Nitrophenol	540	U
Fluorene	270	U
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	540	U
4,6-Dinitro-2-methylphenol	540	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	540	U
Phenanthrene	**260**	J
Anthracene	**570**	
Di-n-butylphthalate	270	U
Fluoranthene	**1800**	
Pyrene	**3500**	
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	**52**	J
Benz[a]anthracene	**2400**	
Chrysene	**2500**	
bis(2-Ethylhexyl)phthalate	270	U
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**3300**	
Benzo[k]fluoranthene	**1900**	
Benzo[a]pyrene	**2800**	
Indeno[1,2,3-cd]pyrene	**590**	
Dibenz[a,h]anthracene	**210**	J
Benzo[g,h,i]perylene	**540**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	50	25-121
Phenol-d5	53	24-113
Nitrobenzene-d5	49	23-120
2-Fluorobiphenyl	54	30-115
2,4,6-Tribromophenol	61	19-122
Terphenyl-d14	60	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-5 ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-12**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/16/01	89.3	20.68	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
Benzyl alcohol	2700	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
Benzoic acid	540	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	270	U
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	270	U
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	540	U
2-Chloronaphthalene	270	U
2-Nitroaniline	540	U
Acenaphthylene	**120**	J
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	270	U

Parameter	Result	
3-Nitroaniline	540	U
2,4-Dinitrophenol	540	U
Dibenzofuran	270	U
2,4-Dinitrotoluene	270	U
4-Nitrophenol	540	U
Fluorene	270	U
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	540	U
4,6-Dinitro-2-methylphenol	540	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	540	U
Phenanthrene	**660**	
Anthracene	**93**	J
Di-n-butylphthalate	270	U
Fluoranthene	**1300**	
Pyrene	**1300**	
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	**87**	J
Benz[a]anthracene	**580**	
Chrysene	**830**	
bis(2-Ethylhexyl)phthalate	270	U
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**870**	
Benzo[k]fluoranthene	**730**	
Benzo[a]pyrene	**730**	
Indeno[1,2,3-cd]pyrene	**290**	
Dibenz[a,h]anthracene	**78**	J
Benzo[g,h,i]perylene	**260**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	68	25-121
Phenol-d5	72	24-113
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	65	30-115
2,4,6-Tribromophenol	80	19-122
Terphenyl-d14	77	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-5 SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-13**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	86.5	20.27	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	280	U
2-Nitroaniline	570	U
Acenaphthylene	280	U
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	570	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	570	U
Phenanthrene	280	U
Anthracene	280	U
Di-n-butylphthalate	280	U
Fluoranthene	280	U
Pyrene	280	U
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	280	U
Benz[a]anthracene	280	U
Chrysene	280	U
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	280	U
Benzo[k]fluoranthene	280	U
Benzo[a]pyrene	280	U
Indeno[1,2,3-cd]pyrene	280	U
Dibenz[a,h]anthracene	280	U
Benzo[g,h,i]perylene	280	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	47	25-121
Phenol-d5	49	24-113
Nitrobenzene-d5	44	23-120
2-Fluorobiphenyl	46	30-115
2,4,6-Tribromophenol	57	19-122
Terphenyl-d14	53	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-6 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-14**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	88.8	20.2	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	560	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	560	U
2-Chloronaphthalene	280	U
2-Nitroaniline	560	U
Acenaphthylene	280	U
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	560	U
2,4-Dinitrophenol	560	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	560	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	560	U
4,6-Dinitro-2-methylphenol	560	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	560	U
Phenanthrene	280	U
Anthracene	280	U
Di-n-butylphthalate	280	U
Fluoranthene	280	U
Pyrene	280	U
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	280	U
Benz[a]anthracene	280	U
Chrysene	280	U
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	280	U
Benzo[k]fluoranthene	280	U
Benzo[a]pyrene	280	U
Indeno[1,2,3-cd]pyrene	280	U
Dibenz[a,h]anthracene	280	U
Benzo[g,h,i]perylene	280	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	51	25-121
Phenol-d5	54	24-113
Nitrobenzene-d5	48	23-120
2-Fluorobiphenyl	48	30-115
2,4,6-Tribromophenol	58	19-122
Terphenyl-d14	54	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-6 SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-15**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	83.4	20.38	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	590	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	**300**	
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	**83**	J
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	590	U
2-Chloronaphthalene	290	U
2-Nitroaniline	590	U
Acenaphthylene	**370**	
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	**260**	J

Parameter	Result	
3-Nitroaniline	590	U
2,4-Dinitrophenol	590	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	590	U
Fluorene	**240**	J
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	590	U
4,6-Dinitro-2-methylphenol	590	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	590	U
Phenanthrene	**1400**	
Anthracene	**500**	
Di-n-butylphthalate	290	U
Fluoranthene	**3600**	
Pyrene	**4100**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	**240**	J
Benz[a]anthracene	**2000**	
Chrysene	**2100**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**1800**	
Benzo[k]fluoranthene	**1400**	
Benzo[a]pyrene	**1800**	
Indeno[1,2,3-cd]pyrene	**850**	
Dibenz[a,h]anthracene	**250**	J
Benzo[g,h,i]perylene	**800**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	56	25-121
Phenol-d5	58	24-113
Nitrobenzene-d5	52	23-120
2-Fluorobiphenyl	55	30-115
2,4,6-Tribromophenol	68	19-122
Terphenyl-d14	61	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-7 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-16**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	87.2	20.04	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	290	U
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	290	U
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	290	U
2-Nitroaniline	570	U
Acenaphthylene	**460**	
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	290	U

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	570	U
Fluorene	290	U
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	570	U
Phenanthrene	**210**	J
Anthracene	**210**	J
Di-n-butylphthalate	290	U
Fluoranthene	**880**	
Pyrene	**1800**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	290	U
Benz[a]anthracene	**920**	
Chrysene	**1000**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**1600**	
Benzo[k]fluoranthene	**870**	
Benzo[a]pyrene	**1500**	
Indeno[1,2,3-cd]pyrene	**740**	
Dibenz[a,h]anthracene	**220**	J
Benzo[g,h,i]perylene	**740**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	60	25-121
Phenol-d5	67	24-113
Nitrobenzene-d5	56	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	78	19-122
Terphenyl-d14	68	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-8 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-17**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	85.9	20.42	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	280	U
2-Nitroaniline	570	U
Acenaphthylene	**100**	J
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	570	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	570	U
Phenanthrene	280	U
Anthracene	280	U
Di-n-butylphthalate	280	U
Fluoranthene	**120**	J
Pyrene	**190**	J
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	280	U
Benz[a]anthracene	**140**	J
Chrysene	**150**	J
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**200**	J
Benzo[k]fluoranthene	**160**	J
Benzo[a]pyrene	**220**	J
Indeno[1,2,3-cd]pyrene	**120**	J
Dibenz[a,h]anthracene	280	U
Benzo[g,h,i]perylene	**130**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	53	25-121
Phenol-d5	56	24-113
Nitrobenzene-d5	47	23-120
2-Fluorobiphenyl	51	30-115
2,4,6-Tribromophenol	63	19-122
Terphenyl-d14	56	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-9 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-18**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	86	20.47	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	280	U
2-Nitroaniline	570	U
Acenaphthylene	**170**	J
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	570	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	570	U
Phenanthrene	**190**	J
Anthracene	**120**	J
Di-n-butylphthalate	280	U
Fluoranthene	**800**	
Pyrene	**1100**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	280	U
Benz[a]anthracene	**520**	
Chrysene	**570**	
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**440**	
Benzo[k]fluoranthene	**350**	
Benzo[a]pyrene	**450**	
Indeno[1,2,3-cd]pyrene	**190**	J
Dibenz[a,h]anthracene	**65**	J
Benzo[g,h,i]perylene	**200**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	65	25-121
Phenol-d5	66	24-113
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	59	30-115
2,4,6-Tribromophenol	76	19-122
Terphenyl-d14	65	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-9 NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-19**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/14/01	03/15/01	81.3	20.41	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	300	U
Phenol	300	U
2-Chlorophenol	300	U
1,3-Dichlorobenzene	300	U
1,4-Dichlorobenzene	300	U
1,2-Dichlorobenzene	300	U
Benzyl alcohol	3000	U
bis(2-chloroisopropyl)ether	300	U
2-Methylphenol	300	U
Hexachloroethane	300	U
N-Nitroso-di-n-propylamine	300	U
4-Methylphenol	300	U
Nitrobenzene	300	U
Isophorone	300	U
2-Nitrophenol	300	U
2,4-Dimethylphenol	300	U
Benzoic acid	600	U
bis(2-Chloroethoxy)methane	300	U
2,4-Dichlorophenol	300	U
1,2,4-Trichlorobenzene	300	U
Naphthalene	300	U
4-Chloroaniline	300	U
Hexachlorobutadiene	300	U
4-Chloro-3-methylphenol	300	U
2-Methylnaphthalene	300	U
Hexachlorocyclopentadiene	300	U
2,4,6-Trichlorophenol	300	U
2,4,5-Trichlorophenol	600	U
2-Chloronaphthalene	300	U
2-Nitroaniline	600	U
Acenaphthylene	300	U
Dimethylphthalate	300	U
2,6-Dinitrotoluene	300	U
Acenaphthene	300	U

Parameter	Result	
3-Nitroaniline	600	U
2,4-Dinitrophenol	600	U
Dibenzofuran	300	U
2,4-Dinitrotoluene	300	U
4-Nitrophenol	600	U
Fluorene	300	U
4-Chlorophenyl-phenylether	300	U
Diethylphthalate	300	U
4-Nitroaniline	600	U
4,6-Dinitro-2-methylphenol	600	U
n-Nitrosodiphenylamine	300	U
4-Bromophenyl-phenylether	300	U
Hexachlorobenzene	300	U
Pentachlorophenol	600	U
Phenanthrene	300	U
Anthracene	300	U
Di-n-butylphthalate	300	U
Fluoranthene	**99**	J
Pyrene	**130**	J
Butylbenzylphthalate	300	U
3,3'-Dichlorobenzidine	300	U
Carbazole	300	U
Benz[a]anthracene	**75**	J
Chrysene	**100**	J
bis(2-Ethylhexyl)phthalate	300	U
Di-n-octylphthalate	300	U
Benzo[b]fluoranthene	**100**	J
Benzo[k]fluoranthene	**96**	J
Benzo[a]pyrene	**110**	J
Indeno[1,2,3-cd]pyrene	**62**	J
Dibenz[a,h]anthracene	300	U
Benzo[g,h,i]perylene	**68**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	61	25-121
Phenol-d5	65	24-113
Nitrobenzene-d5	56	23-120
2-Fluorobiphenyl	59	30-115
2,4,6-Tribromophenol	74	19-122
Terphenyl-d14	67	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **SS0314B4**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/14/01	03/15/01	100	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
Benzyl alcohol	2500	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
Benzoic acid	500	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U

Parameter	Result	
3-Nitroaniline	500	U
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	62	25-121
Phenol-d5	63	24-113
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	61	30-115
2,4,6-Tribromophenol	61	19-122
Terphenyl-d14	67	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **SS0314L4**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/14/01	100	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	4400	44	26-90
2-Chlorophenol	4900	49	25-102
1,4-Dichlorobenzene	2100	42	28-104
N-Nitroso-di-n-propylamine	2300	46	41-126
1,2,4-Trichlorobenzene	2300	47	38-107
4-Chloro-3-methylphenol	5600	56	26-103
Acenaphthene	2400	48	31-137
2,4-Dinitrotoluene	2500	49	28-89
4-Nitrophenol	5200	52	11-114
Pentachlorophenol	4300	43	17-109
Pyrene	2600	51	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	47	25-121
Phenol-d5	48	24-113
Nitrobenzene-d5	47	23-120
2-Fluorobiphenyl	45	30-115
2,4,6-Tribromophenol	53	19-122
Terphenyl-d14	52	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **See Below**
Associated Blank: **SS0314B4**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
03/14/01	03/14/01	03/14/01	82.3	CLM

Lab ID:	45569-01		45569-01		45569-01				
Parameter	**Sample Conc.**		**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Phenol	290	U	7900	66	6400	54	20	35	26-90
2-Chlorophenol	290	U	8700	73	7000	59	21	50	25-102
1,4-Dichlorobenzene	290	U	3400	57	2700	45	23	27	28-104
N-Nitroso-di-n-propylamine	290	U	4000	67	3300	55	20	38	41-126
1,2,4-Trichlorobenzene	290	U	3700	62	3000	50	21	23	38-107
4-Chloro-3-methylphenol	290	U	9300	78	7600	64	19	33	26-103
Acenaphthene	290	U	4000	67	3300	56	18	19	31-137
2,4-Dinitrotoluene	290	U	3400	57	2800	47	19	47	28-89
4-Nitrophenol	590	U	8600	72	7400	63	14	50	11-114
Pentachlorophenol	590	U	8300	69	7100	60	13	47	17-109
Pyrene	1300		5300	66	5100	65	2	36	35-142

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
2-Fluorophenol	66	54	25-121
Phenol-d5	70	56	24-113
Nitrobenzene-d5	62	52	23-120
2-Fluorobiphenyl	64	54	30-115
2,4,6-Tribromophenol	77	64	19-122
Terphenyl-d14	70	61	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-01**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/15/01	82.3	4.54	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.7	U	2-Hexanone	2.7	U
Chloromethane	2.7	U	Tetrachloroethene	2.7	U
Vinyl chloride	2.7	U	1,3-Dichloropropane	2.7	U
Bromomethane	2.7	U	Dibromochloromethane	2.7	U
Chloroethane	2.7	U	1,2-Dibromoethane	2.7	U
Trichlorofluoromethane	2.7	U	Chlorobenzene	2.7	U
Acetone	**17**	B	1,1,1,2-Tetrachloroethane	2.7	U
1,1-Dichloroethene	2.7	U	Ethylbenzene	2.7	U
Carbon disulfide	2.7	U	p/m-Xylene	5.4	U
Methylene chloride	**4.8**	JB	o-Xylene	2.7	U
Methyl tert-butyl ether (MTBE)	2.7	U	Styrene	2.7	U
trans-1,2-Dichloroethene	2.7	U	Bromoform	2.7	U
1,1-Dichloroethane	2.7	U	Isopropylbenzene	2.7	U
Vinyl acetate	6.7	U	1,1,2,2-Tetrachloroethane	2.7	U
2-Butanone (MEK)	**2.3**	J	Bromobenzene	2.7	U
cis-1,2-Dichloroethene	2.7	U	1,2,3-Trichloropropane	2.7	U
2,2-Dichloropropane	2.7	U	n-Propylbenzene	2.7	U
Chloroform	2.7	U	2-Chlorotoluene	2.7	U
1,1,1-Trichloroethane	2.7	U	1,3,5-Trimethylbenzene	2.7	U
1,1-Dichloropropene	2.7	U	4-Chlorotoluene	2.7	U
Carbon tetrachloride	2.7	U	tert-Butylbenzene	2.7	U
Benzene	2.7	U	1,2,4-Trimethylbenzene	2.7	U
1,2-Dichloroethane	2.7	U	sec-Butylbenzene	2.7	U
Trichloroethene	2.7	U	1,3-Dichlorobenzene	2.7	U
1,2-Dichloropropane	2.7	U	p-Isopropyltoluene	2.7	U
Dibromomethane	2.7	U	1,4-Dichlorobenzene	2.7	U
Bromodichloromethane	2.7	U	n-Butylbenzene	2.7	U
2-Chloroethylvinyl ether	2.7	U	1,2-Dichlorobenzene	2.7	U
Methyl isobutyl ketone (MIBK)	2.7	U	1,2-Dibromo-3-chloropropane	2.7	U
cis-1,3-Dichloropropene	2.7	U	1,2,4-Trichlorobenzene	2.7	U
Toluene	2.7	U	Hexachlorobutadiene	2.7	U
trans-1,3-Dichloropropene	2.7	U	Naphthalene	**1.9**	J
1,1,2-Trichloroethane	2.7	U	1,2,3-Trichlorobenzene	2.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	96	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 NESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-02**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/15/01	92.3	5.9	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	1.8	U	2-Hexanone	1.8	U
Chloromethane	1.8	U	Tetrachloroethene	1.8	U
Vinyl chloride	1.8	U	1,3-Dichloropropane	1.8	U
Bromomethane	**1.1**	J	Dibromochloromethane	1.8	U
Chloroethane	1.8	U	1,2-Dibromoethane	1.8	U
Trichlorofluoromethane	1.8	U	Chlorobenzene	1.8	U
Acetone	**73**	B	1,1,1,2-Tetrachloroethane	1.8	U
1,1-Dichloroethene	1.8	U	Ethylbenzene	1.8	U
Carbon disulfide	1.8	U	p/m-Xylene	3.7	U
Methylene chloride	**2.8**	JB	o-Xylene	1.8	U
Methyl tert-butyl ether (MTBE)	1.8	U	Styrene	1.8	U
trans-1,2-Dichloroethene	1.8	U	Bromoform	1.8	U
1,1-Dichloroethane	1.8	U	Isopropylbenzene	1.8	U
Vinyl acetate	4.6	U	1,1,2,2-Tetrachloroethane	1.8	U
2-Butanone (MEK)	**8.5**		Bromobenzene	1.8	U
cis-1,2-Dichloroethene	1.8	U	1,2,3-Trichloropropane	1.8	U
2,2-Dichloropropane	1.8	U	n-Propylbenzene	1.8	U
Chloroform	1.8	U	2-Chlorotoluene	1.8	U
1,1,1-Trichloroethane	1.8	U	1,3,5-Trimethylbenzene	1.8	U
1,1-Dichloropropene	1.8	U	4-Chlorotoluene	1.8	U
Carbon tetrachloride	1.8	U	tert-Butylbenzene	1.8	U
Benzene	1.8	U	1,2,4-Trimethylbenzene	1.8	U
1,2-Dichloroethane	1.8	U	sec-Butylbenzene	1.8	U
Trichloroethene	1.8	U	1,3-Dichlorobenzene	1.8	U
1,2-Dichloropropane	1.8	U	p-Isopropyltoluene	1.8	U
Dibromomethane	1.8	U	1,4-Dichlorobenzene	1.8	U
Bromodichloromethane	1.8	U	n-Butylbenzene	1.8	U
2-Chloroethylvinyl ether	1.8	U	1,2-Dichlorobenzene	1.8	U
Methyl isobutyl ketone (MIBK)	1.8	U	1,2-Dibromo-3-chloropropane	1.8	U
cis-1,3-Dichloropropene	1.8	U	1,2,4-Trichlorobenzene	1.8	U
Toluene	1.8	U	Hexachlorobutadiene	1.8	U
trans-1,3-Dichloropropene	1.8	U	Naphthalene	1.8	U
1,1,2-Trichloroethane	1.8	U	1,2,3-Trichlorobenzene	1.8	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	93	87-108
4-Bromofluorobenzene	82	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 NESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-02R**
Associated Blank: **B1031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	92.3	5.49	5	1	JAD

Parameter	Result	
Dichlorodifluoromethane	2.0	U
Chloromethane	2.0	U
Vinyl chloride	2.0	U
Bromomethane	**1.1**	J
Chloroethane	2.0	U
Trichlorofluoromethane	2.0	U
Acetone	**40**	B
1,1-Dichloroethene	2.0	U
Carbon disulfide	2.0	U
Methylene chloride	**4.9**	JB
Methyl tert-butyl ether (MTBE)	2.0	U
trans-1,2-Dichloroethene	2.0	U
1,1-Dichloroethane	2.0	U
Vinyl acetate	4.9	U
2-Butanone (MEK)	**5.2**	
cis-1,2-Dichloroethene	2.0	U
2,2-Dichloropropane	2.0	U
Chloroform	2.0	U
1,1,1-Trichloroethane	2.0	U
1,1-Dichloropropene	2.0	U
Carbon tetrachloride	2.0	U
Benzene	2.0	U
1,2-Dichloroethane	2.0	U
Trichloroethene	2.0	U
1,2-Dichloropropane	2.0	U
Dibromomethane	2.0	U
Bromodichloromethane	2.0	U
2-Chloroethylvinyl ether	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U
cis-1,3-Dichloropropene	2.0	U
Toluene	2.0	U
trans-1,3-Dichloropropene	2.0	U
1,1,2-Trichloroethane	2.0	U

Parameter	Result	
2-Hexanone	2.0	U
Tetrachloroethene	2.0	U
1,3-Dichloropropane	2.0	U
Dibromochloromethane	2.0	U
1,2-Dibromoethane	2.0	U
Chlorobenzene	2.0	U
1,1,1,2-Tetrachloroethane	2.0	U
Ethylbenzene	2.0	U
p/m-Xylene	3.9	U
o-Xylene	2.0	U
Styrene	2.0	U
Bromoform	2.0	U
Isopropylbenzene	2.0	U
1,1,2,2-Tetrachloroethane	2.0	U
Bromobenzene	2.0	U
1,2,3-Trichloropropane	2.0	U
n-Propylbenzene	2.0	U
2-Chlorotoluene	2.0	U
1,3,5-Trimethylbenzene	2.0	U
4-Chlorotoluene	2.0	U
tert-Butylbenzene	2.0	U
1,2,4-Trimethylbenzene	2.0	U
sec-Butylbenzene	2.0	U
1,3-Dichlorobenzene	2.0	U
p-Isopropyltoluene	2.0	U
1,4-Dichlorobenzene	2.0	U
n-Butylbenzene	2.0	U
1,2-Dichlorobenzene	2.0	U
1,2-Dibromo-3-chloropropane	2.0	U
1,2,4-Trichlorobenzene	2.0	U
Hexachlorobutadiene	2.0	U
Naphthalene	2.0	U
1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	96	84-108
Toluene-d8	94	87-108
4-Bromofluorobenzene	87	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 SESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-03**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/15/01	92.5	4.71	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**25**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.6	U
Methylene chloride	**3.4**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	5.7	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	**2.9**		Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	2.3	U
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	96	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	94	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-1 NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-04**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/15/01	85.2	5.05	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**10**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.6	U
Methylene chloride	**3.6**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	5.8	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	2.3	U	Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	2.3	U
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	97	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-2 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-05**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/15/01	79.1	4.51	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.8	U	2-Hexanone	2.8	U
Chloromethane	2.8	U	Tetrachloroethene	2.8	U
Vinyl chloride	2.8	U	1,3-Dichloropropane	2.8	U
Bromomethane	2.8	U	Dibromochloromethane	2.8	U
Chloroethane	2.8	U	1,2-Dibromoethane	2.8	U
Trichlorofluoromethane	2.8	U	Chlorobenzene	2.8	U
Acetone	**48**	B	1,1,1,2-Tetrachloroethane	2.8	U
1,1-Dichloroethene	2.8	U	Ethylbenzene	2.8	U
Carbon disulfide	2.8	U	p/m-Xylene	5.6	U
Methylene chloride	**3.9**	JB	o-Xylene	2.8	U
Methyl tert-butyl ether (MTBE)	2.8	U	Styrene	2.8	U
trans-1,2-Dichloroethene	2.8	U	Bromoform	2.8	U
1,1-Dichloroethane	2.8	U	Isopropylbenzene	2.8	U
Vinyl acetate	7.0	U	1,1,2,2-Tetrachloroethane	2.8	U
2-Butanone (MEK)	**4.5**		Bromobenzene	2.8	U
cis-1,2-Dichloroethene	2.8	U	1,2,3-Trichloropropane	2.8	U
2,2-Dichloropropane	2.8	U	n-Propylbenzene	2.8	U
Chloroform	2.8	U	2-Chlorotoluene	2.8	U
1,1,1-Trichloroethane	2.8	U	1,3,5-Trimethylbenzene	2.8	U
1,1-Dichloropropene	2.8	U	4-Chlorotoluene	2.8	U
Carbon tetrachloride	2.8	U	tert-Butylbenzene	2.8	U
Benzene	2.8	U	1,2,4-Trimethylbenzene	2.8	U
1,2-Dichloroethane	2.8	U	sec-Butylbenzene	2.8	U
Trichloroethene	2.8	U	1,3-Dichlorobenzene	2.8	U
1,2-Dichloropropane	2.8	U	p-Isopropyltoluene	2.8	U
Dibromomethane	2.8	U	1,4-Dichlorobenzene	2.8	U
Bromodichloromethane	2.8	U	n-Butylbenzene	2.8	U
2-Chloroethylvinyl ether	2.8	U	1,2-Dichlorobenzene	2.8	U
Methyl isobutyl ketone (MIBK)	2.8	U	1,2-Dibromo-3-chloropropane	2.8	U
cis-1,3-Dichloropropene	2.8	U	1,2,4-Trichlorobenzene	2.8	U
Toluene	2.8	U	Hexachlorobutadiene	2.8	U
trans-1,3-Dichloropropene	2.8	U	Naphthalene	2.8	U
1,1,2-Trichloroethane	2.8	U	1,2,3-Trichlorobenzene	2.8	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	95	84-108
Toluene-d8	96	87-108
4-Bromofluorobenzene	92	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-2 ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-06**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/15/01	91	4.64	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.4	U	2-Hexanone	2.4	U
Chloromethane	2.4	U	Tetrachloroethene	2.4	U
Vinyl chloride	2.4	U	1,3-Dichloropropane	2.4	U
Bromomethane	2.4	U	Dibromochloromethane	2.4	U
Chloroethane	2.4	U	1,2-Dibromoethane	2.4	U
Trichlorofluoromethane	2.4	U	Chlorobenzene	2.4	U
Acetone	**30**	B	1,1,1,2-Tetrachloroethane	2.4	U
1,1-Dichloroethene	2.4	U	Ethylbenzene	2.4	U
Carbon disulfide	2.4	U	p/m-Xylene	4.7	U
Methylene chloride	**3.5**	JB	o-Xylene	2.4	U
Methyl tert-butyl ether (MTBE)	2.4	U	Styrene	2.4	U
trans-1,2-Dichloroethene	2.4	U	Bromoform	2.4	U
1,1-Dichloroethane	2.4	U	Isopropylbenzene	2.4	U
Vinyl acetate	5.9	U	1,1,2,2-Tetrachloroethane	2.4	U
2-Butanone (MEK)	**2.3**	J	Bromobenzene	2.4	U
cis-1,2-Dichloroethene	2.4	U	1,2,3-Trichloropropane	2.4	U
2,2-Dichloropropane	2.4	U	n-Propylbenzene	2.4	U
Chloroform	2.4	U	2-Chlorotoluene	2.4	U
1,1,1-Trichloroethane	2.4	U	1,3,5-Trimethylbenzene	2.4	U
1,1-Dichloropropene	2.4	U	4-Chlorotoluene	2.4	U
Carbon tetrachloride	2.4	U	tert-Butylbenzene	2.4	U
Benzene	2.4	U	1,2,4-Trimethylbenzene	2.4	U
1,2-Dichloroethane	2.4	U	sec-Butylbenzene	2.4	U
Trichloroethene	2.4	U	1,3-Dichlorobenzene	2.4	U
1,2-Dichloropropane	2.4	U	p-Isopropyltoluene	2.4	U
Dibromomethane	2.4	U	1,4-Dichlorobenzene	2.4	U
Bromodichloromethane	2.4	U	n-Butylbenzene	2.4	U
2-Chloroethylvinyl ether	2.4	U	1,2-Dichlorobenzene	2.4	U
Methyl isobutyl ketone (MIBK)	2.4	U	1,2-Dibromo-3-chloropropane	2.4	U
cis-1,3-Dichloropropene	2.4	U	1,2,4-Trichlorobenzene	2.4	U
Toluene	2.4	U	Hexachlorobutadiene	2.4	U
trans-1,3-Dichloropropene	2.4	U	Naphthalene	2.4	U
1,1,2-Trichloroethane	2.4	U	1,2,3-Trichlorobenzene	2.4	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	95	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-3 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-07**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/15/01	92.3	4.47	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.4	U	2-Hexanone	2.4	U
Chloromethane	2.4	U	Tetrachloroethene	2.4	U
Vinyl chloride	2.4	U	1,3-Dichloropropane	2.4	U
Bromomethane	2.4	U	Dibromochloromethane	2.4	U
Chloroethane	2.4	U	1,2-Dibromoethane	2.4	U
Trichlorofluoromethane	2.4	U	Chlorobenzene	2.4	U
Acetone	**20**	B	1,1,1,2-Tetrachloroethane	2.4	U
1,1-Dichloroethene	2.4	U	Ethylbenzene	2.4	U
Carbon disulfide	2.4	U	p/m-Xylene	4.8	U
Methylene chloride	**3.8**	JB	o-Xylene	2.4	U
Methyl tert-butyl ether (MTBE)	2.4	U	Styrene	2.4	U
trans-1,2-Dichloroethene	2.4	U	Bromoform	2.4	U
1,1-Dichloroethane	2.4	U	Isopropylbenzene	2.4	U
Vinyl acetate	6.1	U	1,1,2,2-Tetrachloroethane	2.4	U
2-Butanone (MEK)	**1.8**	J	Bromobenzene	2.4	U
cis-1,2-Dichloroethene	2.4	U	1,2,3-Trichloropropane	2.4	U
2,2-Dichloropropane	2.4	U	n-Propylbenzene	2.4	U
Chloroform	2.4	U	2-Chlorotoluene	2.4	U
1,1,1-Trichloroethane	2.4	U	1,3,5-Trimethylbenzene	2.4	U
1,1-Dichloropropene	2.4	U	4-Chlorotoluene	2.4	U
Carbon tetrachloride	2.4	U	tert-Butylbenzene	2.4	U
Benzene	2.4	U	1,2,4-Trimethylbenzene	2.4	U
1,2-Dichloroethane	2.4	U	sec-Butylbenzene	2.4	U
Trichloroethene	2.4	U	1,3-Dichlorobenzene	2.4	U
1,2-Dichloropropane	2.4	U	p-Isopropyltoluene	2.4	U
Dibromomethane	2.4	U	1,4-Dichlorobenzene	2.4	U
Bromodichloromethane	2.4	U	n-Butylbenzene	2.4	U
2-Chloroethylvinyl ether	2.4	U	1,2-Dichlorobenzene	2.4	U
Methyl isobutyl ketone (MIBK)	2.4	U	1,2-Dibromo-3-chloropropane	2.4	U
cis-1,3-Dichloropropene	2.4	U	1,2,4-Trichlorobenzene	2.4	U
Toluene	2.4	U	Hexachlorobutadiene	2.4	U
trans-1,3-Dichloropropene	2.4	U	Naphthalene	**1.4**	J
1,1,2-Trichloroethane	2.4	U	1,2,3-Trichlorobenzene	2.4	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	96	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	94	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-3 ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-08**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/15/01	89	5.19	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**34**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.3	U
Methylene chloride	**3.5**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	5.4	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	**2.8**		Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	2.2	U	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	2.2	U
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	94	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-4 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-09**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	84.1	4.37	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.7	U	2-Hexanone	**4.8**	
Chloromethane	2.7	U	Tetrachloroethene	2.7	U
Vinyl chloride	2.7	U	1,3-Dichloropropane	2.7	U
Bromomethane	**1.7**	J	Dibromochloromethane	2.7	U
Chloroethane	2.7	U	1,2-Dibromoethane	2.7	U
Trichlorofluoromethane	2.7	U	Chlorobenzene	2.7	U
Acetone	**150**	B	1,1,1,2-Tetrachloroethane	2.7	U
1,1-Dichloroethene	2.7	U	Ethylbenzene	2.7	U
Carbon disulfide	2.7	U	p/m-Xylene	5.4	U
Methylene chloride	**3.9**	JB	o-Xylene	2.7	U
Methyl tert-butyl ether (MTBE)	2.7	U	Styrene	2.7	U
trans-1,2-Dichloroethene	2.7	U	Bromoform	2.7	U
1,1-Dichloroethane	2.7	U	Isopropylbenzene	2.7	U
Vinyl acetate	6.8	U	1,1,2,2-Tetrachloroethane	2.7	U
2-Butanone (MEK)	**29**		Bromobenzene	2.7	U
cis-1,2-Dichloroethene	2.7	U	1,2,3-Trichloropropane	2.7	U
2,2-Dichloropropane	2.7	U	n-Propylbenzene	2.7	U
Chloroform	2.7	U	2-Chlorotoluene	2.7	U
1,1,1-Trichloroethane	2.7	U	1,3,5-Trimethylbenzene	2.7	U
1,1-Dichloropropene	2.7	U	4-Chlorotoluene	2.7	U
Carbon tetrachloride	2.7	U	tert-Butylbenzene	2.7	U
Benzene	2.7	U	1,2,4-Trimethylbenzene	2.7	U
1,2-Dichloroethane	2.7	U	sec-Butylbenzene	2.7	U
Trichloroethene	2.7	U	1,3-Dichlorobenzene	2.7	U
1,2-Dichloropropane	2.7	U	p-Isopropyltoluene	2.7	U
Dibromomethane	2.7	U	1,4-Dichlorobenzene	2.7	U
Bromodichloromethane	2.7	U	n-Butylbenzene	2.7	U
2-Chloroethylvinyl ether	2.7	U	1,2-Dichlorobenzene	2.7	U
Methyl isobutyl ketone (MIBK)	2.7	U	1,2-Dibromo-3-chloropropane	2.7	U
cis-1,3-Dichloropropene	2.7	U	1,2,4-Trichlorobenzene	2.7	U
Toluene	2.7	U	Hexachlorobutadiene	2.7	U
trans-1,3-Dichloropropene	2.7	U	Naphthalene	**1.6**	J
1,1,2-Trichloroethane	2.7	U	1,2,3-Trichlorobenzene	2.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	93	87-108
4-Bromofluorobenzene	86	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-4 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-09R**
Associated Blank: **B1031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	84.1	5.93	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	**1.7**	J
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**62**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**2.3**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	**12**		Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	96	84-108
Toluene-d8	93	87-108
4-Bromofluorobenzene	87	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-4 ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-10**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	90.1	5.22	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	2.1	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	2.1	U	Chlorobenzene	2.1	U
Acetone	**35**	B	1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	4.3	U
Methylene chloride	**3.6**	JB	o-Xylene	2.1	U
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	5.3	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	**4.1**		Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	2.1	U	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	2.1	U
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	95	87-108
4-Bromofluorobenzene	89	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-5 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-11**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	89	5.06	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**18**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.4	U
Methylene chloride	**3.2**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	5.6	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	**1.5**	J	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	**1.4**	J	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	2.2	U
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	95	87-108
4-Bromofluorobenzene	95	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-5 ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-12**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	89.3	5.66	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**49**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**2.9**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	4.9	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	**2.1**		Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	84-108
Toluene-d8	96	87-108
4-Bromofluorobenzene	95	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-5 SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-13**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	86.5	5.21	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**58**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.4	U
Methylene chloride	**4.6**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	5.5	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	**23**		Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	2.2	U	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	2.2	U
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	105	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	94	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-6 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-14**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	88.8	6.42	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	1.8	U	2-Hexanone	1.8	U
Chloromethane	1.8	U	Tetrachloroethene	1.8	U
Vinyl chloride	1.8	U	1,3-Dichloropropane	1.8	U
Bromomethane	1.8	U	Dibromochloromethane	1.8	U
Chloroethane	1.8	U	1,2-Dibromoethane	1.8	U
Trichlorofluoromethane	1.8	U	Chlorobenzene	1.8	U
Acetone	**24**	B	1,1,1,2-Tetrachloroethane	1.8	U
1,1-Dichloroethene	1.8	U	Ethylbenzene	1.8	U
Carbon disulfide	1.8	U	p/m-Xylene	3.5	U
Methylene chloride	**1.8**	JB	o-Xylene	1.8	U
Methyl tert-butyl ether (MTBE)	1.8	U	Styrene	1.8	U
trans-1,2-Dichloroethene	1.8	U	Bromoform	1.8	U
1,1-Dichloroethane	1.8	U	Isopropylbenzene	1.8	U
Vinyl acetate	4.4	U	1,1,2,2-Tetrachloroethane	1.8	U
2-Butanone (MEK)	**1.5**	J	Bromobenzene	1.8	U
cis-1,2-Dichloroethene	1.8	U	1,2,3-Trichloropropane	1.8	U
2,2-Dichloropropane	1.8	U	n-Propylbenzene	1.8	U
Chloroform	1.8	U	2-Chlorotoluene	1.8	U
1,1,1-Trichloroethane	1.8	U	1,3,5-Trimethylbenzene	1.8	U
1,1-Dichloropropene	1.8	U	4-Chlorotoluene	1.8	U
Carbon tetrachloride	1.8	U	tert-Butylbenzene	1.8	U
Benzene	1.8	U	1,2,4-Trimethylbenzene	1.8	U
1,2-Dichloroethane	1.8	U	sec-Butylbenzene	1.8	U
Trichloroethene	**1.6**	J	1,3-Dichlorobenzene	1.8	U
1,2-Dichloropropane	1.8	U	p-Isopropyltoluene	1.8	U
Dibromomethane	1.8	U	1,4-Dichlorobenzene	1.8	U
Bromodichloromethane	1.8	U	n-Butylbenzene	1.8	U
2-Chloroethylvinyl ether	1.8	U	1,2-Dichlorobenzene	1.8	U
Methyl isobutyl ketone (MIBK)	1.8	U	1,2-Dibromo-3-chloropropane	1.8	U
cis-1,3-Dichloropropene	1.8	U	1,2,4-Trichlorobenzene	1.8	U
Toluene	1.8	U	Hexachlorobutadiene	1.8	U
trans-1,3-Dichloropropene	1.8	U	Naphthalene	1.8	U
1,1,2-Trichloroethane	1.8	U	1,2,3-Trichlorobenzene	1.8	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	92	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-6 SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-15**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	83.4	5.65	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	2.1	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	2.1	U	Chlorobenzene	2.1	U
Acetone	**35**	B	1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	4.2	U
Methylene chloride	**2.9**	JB	o-Xylene	2.1	U
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	5.3	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	**2.3**		Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	2.1	U	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	**29**	
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	84-108
Toluene-d8	95	87-108
4-Bromofluorobenzene	95	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-7 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-16**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	87.2	5.12	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**32**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.5	U
Methylene chloride	**2.9**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	5.6	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	**1.7**	J	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	2.2	U	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	**3.1**	
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	95	87-108
4-Bromofluorobenzene	93	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-8 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-17**
Associated Blank: **B2031503**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	85.9	5.26	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**15**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.4	U
Methylene chloride	**2.7**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	2.2	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	2.2	U	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	2.2	U	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	2.2	U
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	96	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-9 SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-18**
Associated Blank: **B2031503**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	86	4.46	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.6	U	2-Hexanone	2.6	U
Chloromethane	2.6	U	Tetrachloroethene	2.6	U
Vinyl chloride	2.6	U	1,3-Dichloropropane	2.6	U
Bromomethane	2.6	U	Dibromochloromethane	2.6	U
Chloroethane	2.6	U	1,2-Dibromoethane	2.6	U
Trichlorofluoromethane	2.6	U	Chlorobenzene	2.6	U
Acetone	**12**	B	1,1,1,2-Tetrachloroethane	2.6	U
1,1-Dichloroethene	2.6	U	Ethylbenzene	2.6	U
Carbon disulfide	2.6	U	p/m-Xylene	5.2	U
Methylene chloride	**2.0**	JB	o-Xylene	2.6	U
Methyl tert-butyl ether (MTBE)	2.6	U	Styrene	2.6	U
trans-1,2-Dichloroethene	2.6	U	Bromoform	2.6	U
1,1-Dichloroethane	2.6	U	Isopropylbenzene	2.6	U
Vinyl acetate	2.6	U	1,1,2,2-Tetrachloroethane	2.6	U
2-Butanone (MEK)	2.6	U	Bromobenzene	2.6	U
cis-1,2-Dichloroethene	2.6	U	1,2,3-Trichloropropane	2.6	U
2,2-Dichloropropane	2.6	U	n-Propylbenzene	2.6	U
Chloroform	2.6	U	2-Chlorotoluene	2.6	U
1,1,1-Trichloroethane	2.6	U	1,3,5-Trimethylbenzene	2.6	U
1,1-Dichloropropene	2.6	U	4-Chlorotoluene	2.6	U
Carbon tetrachloride	2.6	U	tert-Butylbenzene	2.6	U
Benzene	2.6	U	1,2,4-Trimethylbenzene	2.6	U
1,2-Dichloroethane	2.6	U	sec-Butylbenzene	2.6	U
Trichloroethene	2.6	U	1,3-Dichlorobenzene	2.6	U
1,2-Dichloropropane	2.6	U	p-Isopropyltoluene	2.6	U
Dibromomethane	2.6	U	1,4-Dichlorobenzene	2.6	U
Bromodichloromethane	2.6	U	n-Butylbenzene	2.6	U
2-Chloroethylvinyl ether	2.6	U	1,2-Dichlorobenzene	2.6	U
Methyl isobutyl ketone (MIBK)	2.6	U	1,2-Dibromo-3-chloropropane	2.6	U
cis-1,3-Dichloropropene	2.6	U	1,2,4-Trichlorobenzene	2.6	U
Toluene	2.6	U	Hexachlorobutadiene	2.6	U
trans-1,3-Dichloropropene	2.6	U	Naphthalene	2.6	U
1,1,2-Trichloroethane	2.6	U	1,2,3-Trichlorobenzene	2.6	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	97	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-9 NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-19**
Associated Blank: **B2031503**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/16/01	81.3	5.58	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**26**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.4	U
Methylene chloride	**3.3**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	2.2	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	2.2	U	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	2.2	U	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	2.2	U
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	96	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Trip Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **45569-20**
Associated Blank: **B1031502**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/14/01	03/14/01	03/15/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**14**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	5.0	U	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	78-118
Toluene-d8	98	87-113
4-Bromofluorobenzene	97	76-120

B - Found in associated blank as well as sample.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **B1031504**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/15/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**2.2**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**4.3**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	97	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **B2031503**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/16/01	100	5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**2.5**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**3.4**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	96	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **B1031502**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/15/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**3.3**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	5.0	U	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	78-118
Toluene-d8	98	87-113
4-Bromofluorobenzene	97	76-120

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **B1031602**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/16/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**3.0**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**5.1**		o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	96	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **See Below**
Associated Blank: **B1031504**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	JAD

Lab ID:	B1031504	Q1031503	Q1031504

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	20	100	22	108	8	30	69-148
Benzene	2.0	U	19	97	20	102	5	30	74-136
Trichloroethene	2.0	U	20	101	21	106	5	30	74-139
Toluene	2.0	U	19	97	20	100	3	30	66-139
Chlorobenzene	2.0	U	20	97	20	101	4	30	78-130

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	97	97	84-108
Toluene-d8	99	98	87-108
4-Bromofluorobenzene	99	100	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **See Below**
Associated Blank: **B2031503**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	AL

Lab ID:	B2031503	Q2031503		Q2031504				
Parameter	**Method Blank Conc.**	**Blank Spike Conc.**	**Blank Spike % Recovery**	**Blank Spike Dup. Conc.**	**Blank Spike Dup. % Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
1,1-Dichloroethene	2.0 U	25	127	25	125	1	30	60-142
Benzene	2.0 U	23	114	22	112	2	30	56-143
Trichloroethene	2.0 U	23	113	22	112	1	26	76-127
Toluene	2.0 U	22	110	21	107	3	27	52-147
Chlorobenzene	2.0 U	22	111	22	108	3	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	100	99	84-108
Toluene-d8	99	99	87-108
4-Bromofluorobenzene	101	99	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **See Below**
Associated Blank: **B1031502**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	JAD

Lab ID:	B1031502	Q1031501	Q1031502

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	21	106	22	107	1	30	60-142
Benzene	2.0	U	21	103	20	102	1	30	56-143
Trichloroethene	2.0	U	21	106	21	104	2	30	76-127
Toluene	2.0	U	20	100	19	96	3	30	52-147
Chlorobenzene	2.0	U	20	102	20	100	2	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	98	100	78-118
Toluene-d8	98	97	87-113
4-Bromofluorobenzene	99	98	76-120

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145569**
Lab ID: **See Below**
Associated Blank: **B1031602**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	JAD

Lab ID: B1031602 Q1031601 Q1031602

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	21	104	20	101	3	30	69-148
Benzene	2.0	U	21	105	20	102	3	30	74-136
Trichloroethene	2.0	U	22	110	21	106	3	30	74-139
Toluene	2.0	U	21	103	20	100	3	30	66-139
Chlorobenzene	2.0	U	21	106	21	103	3	30	78-130

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	100	98	84-108
Toluene-d8	97	97	87-108
4-Bromofluorobenzene	100	99	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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APPENDIX D-2

Confirmatory Laboratory Analytical Results
Area 2

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	Bldg A-85
ETR:	00145555
Report Date:	03/14/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45555
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Semi-Volatile Organics by GC/MS

1. Sample SBNL14-A2-WSW (45555-04) was analyzed at a 1:2 dilution based on GC FID screening information and was reported with the associated elevated reporting limits.

2. The matrix spike sample associated with sample, SBNL14-A2-SS (45555-05) had a slightly high recovery for the compound 2,4-Dinitrotoluene of 94% (limit 89%). The matrix spike duplicate sample also associated with the same sample had high recoveries for the following compounds; Phenol , 97% (limit 90%), 2-Chlorophenol, 108% (limit 102%), 4-Chloro-3-methylphenol, 119% (limit 103%), 2,4-Dinitrotoluene, 108% (limit 89%), 4-Nitrophenol, 118% (limit 114%). Note that all RPDs met QC criteria.

Metals

1. Sample SBNL14-A2-NSW (45555-01) was digested and analyzed in duplicate with a matrix spike. All QC measures were within acceptance criteria except for the following:

   Arsenic: The RPD between duplicates was 32% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Barium: The RPD between duplicates was 60% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Chromium: The RPD between duplicates was 22% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Lead: The RPD between duplicates was 27% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity. The matrix spike recovery was 69%, which does not meet quality control criteria of 75%-125%. This may be due to sample matrix interference. The laboratory control sample was within acceptance limits.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Susan R. Burkhart Date: 3-15-01
Woods Hole Group Environmental Laboratories

F:\SHARED\NARRTEMP\FOSWHE\45555.dot

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767
TEL: (508) 822-9300
FAX: (508) 822-3288

PAGE ___ OF ___

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA 02110
Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7863
Contact Name: SUE LEACH / KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BU06. A-85
Project Number: B014
P.O. #: 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/12/01
Quote #:

TAT ___ 10 Day ___ 5 Day ___ 3 Day ✓ (48 Hr) ___ 24 Hr ___ Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/ PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	40 mL / VOA / NaHSO4	40 mL / VOA / MeOH			
45555-1	SBNL14-A2-NSW	3/12/01	1330	GRAB	SOIL	TPH, SVOC, RCRA 8 PLUS Ni, Cu, Zn	1					
↓	SBNL14-A2-NSW	↓	1330	↓	↓	VOC		2	1			
-2	SBNL14-A2-ESW	↓	1335	↓	↓	TPH, SVOC, RCRA 8 PLUS Ni, Cu, Zn	1					
↓	SBNL14-A2-ESW	↓	1335	↓	↓	VOC		2	1			
-3	SBNL14-A2-SSW	↓	1340	↓	↓	TPH, SVOC, RCRA 8 PLUS, Ni, Cu, Zn	1					
↓	SBNL14-A2-SSW	↓	1340	↓	↓	VOC		2	1			
-4	SBNL14-A2-WSW	↓	1345	↓	↓	TPH, SVOC, RCRA 8 PLUS Ni, Cu, Zn	1					
↓	SBNL14-A2-WSW	↓	1345	↓	↓	VOC		2	1			
-5	SBNL14-A2-SS	↓	1350	↓	↓	TPH, SVOC, RCRA 8 PLUS Ni, Cu, Zn	1					
↓	SBNL14-A2-SS	↓	1350	↓	↓	VOC		2	1			

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. Whitte	3/12/01	16:55	K. Bates
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
TRIP BLANK INCLUDED 45555-6

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145555
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145555-01	SBNL14-A2-NSW	SOIL	3/12/2001 1:30:00 PM	3/12/2001 4:55:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145555-02	SBNL14-A2-ESW	SOIL	3/12/2001 1:35:00 PM	3/12/2001 4:55:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145555
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145555-03	SBNL14-A2-SSW	SOIL	3/12/2001 1:40:00 PM	3/12/2001 4:55:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145555-04	SBNL14-A2-WSW	SOIL	3/12/2001 1:45:00 PM	3/12/2001 4:55:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145555
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145555-05	SBNL14-A2-SS	SOIL	3/12/2001 1:50:00 PM	3/12/2001 4:55:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145555-06	TRIP BLANK	SOIL	3/12/2001 1:30:00 PM	3/12/2001 4:55:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS			

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145555
Project: Bldg A-85

Sample ID: SBNL14-A2-NSW
Lab ID: 0145555-01

Matrix: SOIL
% SOLIDS: 98%

Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.6		mg/kg dry	5	0.19	6020	03/12/2001	3/13/2001	LMR
Barium, Total	27		mg/kg dry	5	0.16	6020	03/12/2001	3/13/2001	LMR
Cadmium, Total	0.073		mg/kg dry	5	0.037	6020	03/12/2001	3/13/2001	LMR
Chromium, Total	9.5		mg/kg dry	5	0.64	6020	03/12/2001	3/13/2001	LMR
Copper, Total	12		mg/kg dry	5	0.32	6020	03/12/2001	3/13/2001	LMR
Lead, Total	3.4		mg/kg dry	5	0.37	6020	03/12/2001	3/13/2001	LMR
Mercury, Total	0.012	U	mg/kg dry	1	0.012	7471	03/12/2001	3/13/2001	MDM
Nickel, Total	9.9		mg/kg dry	5	0.16	6020	03/12/2001	3/13/2001	LMR
Selenium, Total	0.19	U	mg/kg dry	5	0.19	6020	03/12/2001	3/13/2001	LMR
Silver, Total	0.047		mg/kg dry	5	0.032	6020	03/12/2001	3/13/2001	LMR
Zinc, Total	26		mg/kg dry	5	0.64	6020	03/12/2001	3/13/2001	LMR

Sample ID: SBNL14-A2-ESW
Lab ID: 0145555-02

Matrix: SOIL
% SOLIDS: 82%

Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	12		mg/kg dry	5	0.16	6020	03/12/2001	3/13/2001	LMR
Barium, Total	69		mg/kg dry	5	0.15	6020	03/12/2001	3/13/2001	LMR
Cadmium, Total	0.10		mg/kg dry	5	0.031	6020	03/12/2001	3/13/2001	LMR
Chromium, Total	16		mg/kg dry	5	0.61	6020	03/12/2001	3/13/2001	LMR
Copper, Total	19		mg/kg dry	5	0.30	6020	03/12/2001	3/13/2001	LMR
Lead, Total	23		mg/kg dry	5	0.31	6020	03/12/2001	3/13/2001	LMR
Mercury, Total	0.024		mg/kg dry	1	0.013	7471	03/12/2001	3/13/2001	MDM
Nickel, Total	11		mg/kg dry	5	0.15	6020	03/12/2001	3/13/2001	LMR
Selenium, Total	0.32		mg/kg dry	5	0.16	6020	03/12/2001	3/13/2001	LMR
Silver, Total	0.071		mg/kg dry	5	0.030	6020	03/12/2001	3/13/2001	LMR
Zinc, Total	80		mg/kg dry	5	0.61	6020	03/12/2001	3/13/2001	LMR

U = The analyte was analyzed for but not detected at the sample s]

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145555
Project: Bldg A-85

Sample ID: SBNL14-A2-SSW
Lab ID: 0145555-03

Matrix: SOIL
% SOLIDS: 90%

Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	5.2		mg/kg dry	5	0.13	6020	03/12/2001	3/13/2001	LMR
Barium, Total	43		mg/kg dry	5	0.14	6020	03/12/2001	3/13/2001	LMR
Cadmium, Total	0.096		mg/kg dry	5	0.025	6020	03/12/2001	3/13/2001	LMR
Chromium, Total	18		mg/kg dry	5	0.57	6020	03/12/2001	3/13/2001	LMR
Copper, Total	32		mg/kg dry	5	0.29	6020	03/12/2001	3/13/2001	LMR
Lead, Total	12		mg/kg dry	5	0.25	6020	03/12/2001	3/13/2001	LMR
Mercury, Total	0.023		mg/kg dry	1	0.012	7471	03/12/2001	3/13/2001	MDM
Nickel, Total	14		mg/kg dry	5	0.14	6020	03/12/2001	3/13/2001	LMR
Selenium, Total	0.16		mg/kg dry	5	0.13	6020	03/12/2001	3/13/2001	LMR
Silver, Total	0.074		mg/kg dry	5	0.029	6020	03/12/2001	3/13/2001	LMR
Zinc, Total	110		mg/kg dry	5	0.57	6020	03/12/2001	3/13/2001	LMR

Sample ID: SBNL14-A2-WSW
Lab ID: 0145555-04

Matrix: SOIL
% SOLIDS: 94%

Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	5.2		mg/kg dry	5	0.14	6020	03/12/2001	3/13/2001	LMR
Barium, Total	31		mg/kg dry	5	0.13	6020	03/12/2001	3/13/2001	LMR
Cadmium, Total	0.050		mg/kg dry	5	0.028	6020	03/12/2001	3/13/2001	LMR
Chromium, Total	11		mg/kg dry	5	0.52	6020	03/12/2001	3/13/2001	LMR
Copper, Total	14		mg/kg dry	5	0.26	6020	03/12/2001	3/13/2001	LMR
Lead, Total	3.4		mg/kg dry	5	0.28	6020	03/12/2001	3/13/2001	LMR
Mercury, Total	0.0098	U	mg/kg dry	1	0.0098	7471	03/12/2001	3/13/2001	MDM
Nickel, Total	11		mg/kg dry	5	0.13	6020	03/12/2001	3/13/2001	LMR
Selenium, Total	0.14	U	mg/kg dry	5	0.14	6020	03/12/2001	3/13/2001	LMR
Silver, Total	0.045		mg/kg dry	5	0.026	6020	03/12/2001	3/13/2001	LMR
Zinc, Total	26		mg/kg dry	5	0.52	6020	03/12/2001	3/13/2001	LMR

U = The analyte was analyzed for but not detected at the sample s

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145555
Project: Bldg A-85

Sample ID: SBNL14-A2-SS
Lab ID: 0145555-05

Matrix: SOIL
% SOLIDS: 97%

Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.8		mg/kg dry	5	0.13	6020	03/12/2001	3/13/2001	LMR
Barium, Total	26		mg/kg dry	5	0.14	6020	03/12/2001	3/13/2001	LMR
Cadmium, Total	0.051		mg/kg dry	5	0.027	6020	03/12/2001	3/13/2001	LMR
Chromium, Total	8.5		mg/kg dry	5	0.54	6020	03/12/2001	3/13/2001	LMR
Copper, Total	13		mg/kg dry	5	0.27	6020	03/12/2001	3/13/2001	LMR
Lead, Total	2.7		mg/kg dry	5	0.27	6020	03/12/2001	3/13/2001	LMR
Mercury, Total	0.0098	U	mg/kg dry	1	0.0098	7471	03/12/2001	3/13/2001	MDM
Nickel, Total	9.0		mg/kg dry	5	0.14	6020	03/12/2001	3/13/2001	LMR
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/12/2001	3/13/2001	LMR
Silver, Total	4.0		mg/kg dry	5	0.027	6020	03/12/2001	3/13/2001	LMR
Zinc, Total	20		mg/kg dry	5	0.54	6020	03/12/2001	3/13/2001	LMR

U = The analyte was analyzed for but not detected at the sample s

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: BLDG A-85
ETR: 45555

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	quali -fier
Arsenic	45555-01	03/13/01	<2.5	2.6	32	2.65	90	136	98	N
Barium	45555-01	03/13/01	<2.5	27	60	255	90	124	100	N
Cadmium	45555-01	03/13/01	<0.5	0.073	13	2.65	98	118	102	
Chromium	45555-01	03/13/01	<10	9.6	22	255	92	89.3	95	N
Copper	4555-01	03/13/01	<5.0	12	15	255	87	117	102	
Lead	45555-01	03/13/01	<5.0	3.4	27	2.65	69	138	94	N
Mercury	45555-01	03/13/01	<0.2	<0.012	0	0.25	104	2.48	112	
Nickel	4555-01	03/13/01	<2.5	9.9	19	255	92	156	104	
Selenium	45555-01	03/13/01	<2.5	<0.19	0	2.65	94	95.0	103	
Silver	45555-01	03/13/01	<0.5	0.047	32	25.5	104	119	106	R
Zinc	45555-01	03/13/01	<10	26	18	255	89	66.0	87	

Qualifiers & Notes:
B = Reported QC is for associated batch
LCS = laboratory control standard
RPD = relative percent difference
C= Not spiked >1/4 sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145555
Project: Bldg A-85

Sample ID: SBNL14-A2-NSW
Lab ID: 0145555-01
Matrix: SOIL
% SOLIDS: 98%
Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	36		mg/kg dry	1	2.0	418.1	3/13/2001	MAK

Sample ID: SBNL14-A2-ESW
Lab ID: 0145555-02
Matrix: SOIL
% SOLIDS: 82%
Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	22		mg/kg dry	1	2.0	418.1	3/13/2001	MAK

Sample ID: SBNL14-A2-SSW
Lab ID: 0145555-03
Matrix: SOIL
% SOLIDS: 90%
Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	40		mg/kg dry	1	2.0	418.1	3/13/2001	MAK

Sample ID: SBNL14-A2-WSW
Lab ID: 0145555-04
Matrix: SOIL
% SOLIDS: 94%
Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	13		mg/kg dry	1	2.0	418.1	3/13/2001	MAK

Sample ID: SBNL14-A2-SS
Lab ID: 0145555-05
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 3/12/2001
Date Received: 3/12/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	2.0	U	mg/kg dry	1	2.0	418.1	3/13/2001	MAK

U = The analyte was analyzed for but not detected at the sample s

N/A = Not Applicable
RL = Reporting Limit

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-01**
Associated Blank: **B2031302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	97.6	4.72	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**18**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.3	U
Methylene chloride	**3.0**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	2.2	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	2.2	U	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	2.2	U	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	2.2	U
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	78-118
Toluene-d8	98	87-113
4-Bromofluorobenzene	96	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-02**
Associated Blank: **B2031302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	82.3	3.85	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	3.2	U	2-Hexanone	3.2	U
Chloromethane	3.2	U	Tetrachloroethene	3.2	U
Vinyl chloride	3.2	U	1,3-Dichloropropane	3.2	U
Bromomethane	3.2	U	Dibromochloromethane	3.2	U
Chloroethane	3.2	U	1,2-Dibromoethane	3.2	U
Trichlorofluoromethane	3.2	U	Chlorobenzene	3.2	U
Acetone	**66**	B	1,1,1,2-Tetrachloroethane	3.2	U
1,1-Dichloroethene	3.2	U	Ethylbenzene	3.2	U
Carbon disulfide	3.2	U	p/m-Xylene	6.3	U
Methylene chloride	**3.6**	JB	o-Xylene	3.2	U
Methyl tert-butyl ether (MTBE)	3.2	U	Styrene	3.2	U
trans-1,2-Dichloroethene	3.2	U	Bromoform	3.2	U
1,1-Dichloroethane	3.2	U	Isopropylbenzene	3.2	U
Vinyl acetate	3.2	U	1,1,2,2-Tetrachloroethane	3.2	U
2-Butanone (MEK)	3.2	U	Bromobenzene	3.2	U
cis-1,2-Dichloroethene	3.2	U	1,2,3-Trichloropropane	3.2	U
2,2-Dichloropropane	3.2	U	n-Propylbenzene	3.2	U
Chloroform	3.2	U	2-Chlorotoluene	3.2	U
1,1,1-Trichloroethane	3.2	U	1,3,5-Trimethylbenzene	3.2	U
1,1-Dichloropropene	3.2	U	4-Chlorotoluene	3.2	U
Carbon tetrachloride	3.2	U	tert-Butylbenzene	3.2	U
Benzene	3.2	U	1,2,4-Trimethylbenzene	3.2	U
1,2-Dichloroethane	3.2	U	sec-Butylbenzene	3.2	U
Trichloroethene	3.2	U	1,3-Dichlorobenzene	3.2	U
1,2-Dichloropropane	3.2	U	p-Isopropyltoluene	3.2	U
Dibromomethane	3.2	U	1,4-Dichlorobenzene	3.2	U
Bromodichloromethane	3.2	U	n-Butylbenzene	3.2	U
2-Chloroethylvinyl ether	3.2	U	1,2-Dichlorobenzene	3.2	U
Methyl isobutyl ketone (MIBK)	3.2	U	1,2-Dibromo-3-chloropropane	3.2	U
cis-1,3-Dichloropropene	3.2	U	1,2,4-Trichlorobenzene	3.2	U
Toluene	3.2	U	Hexachlorobutadiene	3.2	U
trans-1,3-Dichloropropene	3.2	U	Naphthalene	3.2	U
1,1,2-Trichloroethane	3.2	U	1,2,3-Trichlorobenzene	3.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	78-118
Toluene-d8	97	87-113
4-Bromofluorobenzene	91	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-03**
Associated Blank: **B2031302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	90.3	5.45	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**27**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.1	U
Methylene chloride	**2.7**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	78-118
Toluene-d8	98	87-113
4-Bromofluorobenzene	96	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-04**
Associated Blank: **B2031302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	94.2	6.18	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	1.7	U	2-Hexanone	1.7	U
Chloromethane	1.7	U	Tetrachloroethene	1.7	U
Vinyl chloride	1.7	U	1,3-Dichloropropane	1.7	U
Bromomethane	1.7	U	Dibromochloromethane	1.7	U
Chloroethane	1.7	U	1,2-Dibromoethane	1.7	U
Trichlorofluoromethane	1.7	U	Chlorobenzene	1.7	U
Acetone	**22**	B	1,1,1,2-Tetrachloroethane	1.7	U
1,1-Dichloroethene	1.7	U	Ethylbenzene	1.7	U
Carbon disulfide	1.7	U	p/m-Xylene	3.4	U
Methylene chloride	**1.9**	JB	o-Xylene	1.7	U
Methyl tert-butyl ether (MTBE)	1.7	U	Styrene	1.7	U
trans-1,2-Dichloroethene	1.7	U	Bromoform	1.7	U
1,1-Dichloroethane	1.7	U	Isopropylbenzene	1.7	U
Vinyl acetate	1.7	U	1,1,2,2-Tetrachloroethane	1.7	U
2-Butanone (MEK)	1.7	U	Bromobenzene	1.7	U
cis-1,2-Dichloroethene	1.7	U	1,2,3-Trichloropropane	1.7	U
2,2-Dichloropropane	1.7	U	n-Propylbenzene	1.7	U
Chloroform	1.7	U	2-Chlorotoluene	1.7	U
1,1,1-Trichloroethane	1.7	U	1,3,5-Trimethylbenzene	1.7	U
1,1-Dichloropropene	1.7	U	4-Chlorotoluene	1.7	U
Carbon tetrachloride	1.7	U	tert-Butylbenzene	1.7	U
Benzene	1.7	U	1,2,4-Trimethylbenzene	1.7	U
1,2-Dichloroethane	1.7	U	sec-Butylbenzene	1.7	U
Trichloroethene	1.7	U	1,3-Dichlorobenzene	1.7	U
1,2-Dichloropropane	1.7	U	p-Isopropyltoluene	1.7	U
Dibromomethane	1.7	U	1,4-Dichlorobenzene	1.7	U
Bromodichloromethane	1.7	U	n-Butylbenzene	1.7	U
2-Chloroethylvinyl ether	1.7	U	1,2-Dichlorobenzene	1.7	U
Methyl isobutyl ketone (MIBK)	1.7	U	1,2-Dibromo-3-chloropropane	1.7	U
cis-1,3-Dichloropropene	1.7	U	1,2,4-Trichlorobenzene	1.7	U
Toluene	1.7	U	Hexachlorobutadiene	1.7	U
trans-1,3-Dichloropropene	1.7	U	Naphthalene	1.7	U
1,1,2-Trichloroethane	1.7	U	1,2,3-Trichlorobenzene	1.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	78-118
Toluene-d8	99	87-113
4-Bromofluorobenzene	94	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-05**
Associated Blank: **B2031302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	96.9	4.81	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	2.1	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	2.1	U	Chlorobenzene	2.1	U
Acetone	**25**	B	1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	4.3	U
Methylene chloride	**2.4**	JB	o-Xylene	2.1	U
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	2.1	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	2.1	U	Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	2.1	U	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	2.1	U
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	78-118
Toluene-d8	99	87-113
4-Bromofluorobenzene	97	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **TRIP BLANK**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-06**
Associated Blank: **B1031302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**12**		1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	5.0	U	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	78-118
Toluene-d8	98	87-113
4-Bromofluorobenzene	97	76-120

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **B1031302**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/13/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	5.0	U	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**2.1**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	78-118
Toluene-d8	98	87-113
4-Bromofluorobenzene	98	76-120

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **B2031302**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/13/01	100	5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**7.3**		1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**4.6**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	78-118
Toluene-d8	100	87-113
4-Bromofluorobenzene	97	76-120

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **See Below**
Associated Blank: **B1031302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	JAD

Lab ID:	B1031302	Q1031301	Q1031302

Parameter	Method Blank Conc.		Blank Spike Conc.	% Recovery	Blank Spike Dup. Conc.	% Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	24	118	22	112	5	30	60-142
Benzene	2.0	U	21	105	20	102	3	30	56-143
Trichloroethene	2.0	U	21	106	20	102	5	30	76-127
Toluene	2.0	U	20	98	19	95	3	30	52-147
Chlorobenzene	2.0	U	20	101	19	97	4	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	99	100	78-118
Toluene-d8	98	99	87-113
4-Bromofluorobenzene	101	100	76-120

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **See Below**
Associated Blank: **B2031302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	AL

Lab ID:	B2031302	Q2031301	Q2031302

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	20	99	22	109	9	30	60-142
Benzene	2.0	U	20	100	21	106	6	30	56-143
Trichloroethene	2.0	U	21	104	21	106	2	26	76-127
Toluene	2.0	U	20	100	21	103	3	27	52-147
Chlorobenzene	2.0	U	20	100	21	104	4	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	98	100	78-118
Toluene-d8	99	99	87-113
4-Bromofluorobenzene	100	101	76-120

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-01**
Associated Blank: **SS0313B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	03/14/01	97.6	20.38	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
Benzyl alcohol	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
Benzoic acid	500	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U

Parameter	Result	
3-Nitroaniline	500	U
2,4-Dinitrophenol	2500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	2500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	**52**	J
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	**190**	J
Pyrene	**180**	J
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	**100**	J
Chrysene	**130**	J
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	**130**	J
Benzo[k]fluoranthene	**110**	J
Benzo[a]pyrene	**130**	J
Indeno[1,2,3-cd]pyrene	**84**	J
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	**100**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	103	25-121
Phenol-d5	104	24-113
Nitrobenzene-d5	101	23-120
2-Fluorobiphenyl	104	30-115
2,4,6-Tribromophenol	110	19-122
Terphenyl-d14	117	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-02**
Associated Blank: **SS0313B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	03/14/01	82.3	20.34	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	300	U
Phenol	300	U
2-Chlorophenol	300	U
1,3-Dichlorobenzene	300	U
1,4-Dichlorobenzene	300	U
1,2-Dichlorobenzene	300	U
Benzyl alcohol	300	U
bis(2-chloroisopropyl)ether	300	U
2-Methylphenol	300	U
Hexachloroethane	300	U
N-Nitroso-di-n-propylamine	300	U
4-Methylphenol	300	U
Nitrobenzene	300	U
Isophorone	300	U
2-Nitrophenol	300	U
2,4-Dimethylphenol	300	U
Benzoic acid	600	U
bis(2-Chloroethoxy)methane	300	U
2,4-Dichlorophenol	300	U
1,2,4-Trichlorobenzene	300	U
Naphthalene	300	U
4-Chloroaniline	300	U
Hexachlorobutadiene	300	U
4-Chloro-3-methylphenol	300	U
2-Methylnaphthalene	300	U
Hexachlorocyclopentadiene	300	U
2,4,6-Trichlorophenol	300	U
2,4,5-Trichlorophenol	600	U
2-Chloronaphthalene	300	U
2-Nitroaniline	600	U
Acenaphthylene	**110**	J
Dimethylphthalate	300	U
2,6-Dinitrotoluene	300	U
Acenaphthene	300	U

Parameter	Result	
3-Nitroaniline	600	U
2,4-Dinitrophenol	3000	U
Dibenzofuran	300	U
2,4-Dinitrotoluene	300	U
4-Nitrophenol	600	U
Fluorene	300	U
4-Chlorophenyl-phenylether	300	U
Diethylphthalate	300	U
4-Nitroaniline	600	U
4,6-Dinitro-2-methylphenol	3000	U
n-Nitrosodiphenylamine	300	U
4-Bromophenyl-phenylether	300	U
Hexachlorobenzene	300	U
Pentachlorophenol	600	U
Phenanthrene	**390**	
Anthracene	**120**	J
Di-n-butylphthalate	300	U
Fluoranthene	**1100**	
Pyrene	**1100**	
Butylbenzylphthalate	300	U
3,3'-Dichlorobenzidine	300	U
Carbazole	300	U
Benz[a]anthracene	**560**	
Chrysene	**580**	
bis(2-Ethylhexyl)phthalate	300	U
Di-n-octylphthalate	300	U
Benzo[b]fluoranthene	**440**	
Benzo[k]fluoranthene	**300**	
Benzo[a]pyrene	**450**	
Indeno[1,2,3-cd]pyrene	**250**	J
Dibenz[a,h]anthracene	**71**	J
Benzo[g,h,i]perylene	**270**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	75	25-121
Phenol-d5	79	24-113
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	81	30-115
2,4,6-Tribromophenol	88	19-122
Terphenyl-d14	87	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-03**
Associated Blank: **SS0313B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	03/14/01	90.3	20.22	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
Benzyl alcohol	270	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
Benzoic acid	550	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	270	U
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	270	U
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	550	U
2-Chloronaphthalene	270	U
2-Nitroaniline	550	U
Acenaphthylene	**120**	J
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	270	U

Parameter	Result	
3-Nitroaniline	550	U
2,4-Dinitrophenol	2700	U
Dibenzofuran	270	U
2,4-Dinitrotoluene	270	U
4-Nitrophenol	550	U
Fluorene	270	U
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	550	U
4,6-Dinitro-2-methylphenol	2700	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	550	U
Phenanthrene	**140**	J
Anthracene	**89**	J
Di-n-butylphthalate	270	U
Fluoranthene	**850**	
Pyrene	**920**	
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	270	U
Benz[a]anthracene	**580**	
Chrysene	**610**	
bis(2-Ethylhexyl)phthalate	270	U
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**550**	
Benzo[k]fluoranthene	**470**	
Benzo[a]pyrene	**570**	
Indeno[1,2,3-cd]pyrene	**280**	
Dibenz[a,h]anthracene	**89**	J
Benzo[g,h,i]perylene	**280**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	102	25-121
Phenol-d5	103	24-113
Nitrobenzene-d5	104	23-120
2-Fluorobiphenyl	102	30-115
2,4,6-Tribromophenol	111	19-122
Terphenyl-d14	110	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-04**
Associated Blank: **SS0313B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	03/14/01	94.2	20.38	1	2	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	520	U
Phenol	520	U
2-Chlorophenol	520	U
1,3-Dichlorobenzene	520	U
1,4-Dichlorobenzene	520	U
1,2-Dichlorobenzene	520	U
Benzyl alcohol	520	U
bis(2-chloroisopropyl)ether	520	U
2-Methylphenol	520	U
Hexachloroethane	520	U
N-Nitroso-di-n-propylamine	520	U
4-Methylphenol	520	U
Nitrobenzene	520	U
Isophorone	520	U
2-Nitrophenol	520	U
2,4-Dimethylphenol	520	U
Benzoic acid	1000	U
bis(2-Chloroethoxy)methane	520	U
2,4-Dichlorophenol	520	U
1,2,4-Trichlorobenzene	520	U
Naphthalene	**100**	J
4-Chloroaniline	520	U
Hexachlorobutadiene	520	U
4-Chloro-3-methylphenol	520	U
2-Methylnaphthalene	520	U
Hexachlorocyclopentadiene	520	U
2,4,6-Trichlorophenol	520	U
2,4,5-Trichlorophenol	1000	U
2-Chloronaphthalene	520	U
2-Nitroaniline	1000	U
Acenaphthylene	**350**	J
Dimethylphthalate	520	U
2,6-Dinitrotoluene	520	U
Acenaphthene	**420**	J

Parameter	Result	
3-Nitroaniline	1000	U
2,4-Dinitrophenol	5200	U
Dibenzofuran	**310**	J
2,4-Dinitrotoluene	520	U
4-Nitrophenol	1000	U
Fluorene	**450**	J
4-Chlorophenyl-phenylether	520	U
Diethylphthalate	520	U
4-Nitroaniline	1000	U
4,6-Dinitro-2-methylphenol	5200	U
n-Nitrosodiphenylamine	520	U
4-Bromophenyl-phenylether	520	U
Hexachlorobenzene	520	U
Pentachlorophenol	1000	U
Phenanthrene	**4900**	
Anthracene	**1200**	
Di-n-butylphthalate	520	U
Fluoranthene	**6100**	
Pyrene	**4900**	
Butylbenzylphthalate	520	U
3,3'-Dichlorobenzidine	520	U
Carbazole	**720**	
Benz[a]anthracene	**2900**	
Chrysene	**2900**	
bis(2-Ethylhexyl)phthalate	520	U
Di-n-octylphthalate	520	U
Benzo[b]fluoranthene	**2600**	
Benzo[k]fluoranthene	**1500**	
Benzo[a]pyrene	**2300**	
Indeno[1,2,3-cd]pyrene	**1100**	
Dibenz[a,h]anthracene	**360**	J
Benzo[g,h,i]perylene	**1100**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	70	25-121
Phenol-d5	76	24-113
Nitrobenzene-d5	72	23-120
2-Fluorobiphenyl	79	30-115
2,4,6-Tribromophenol	82	19-122
Terphenyl-d14	86	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **45555-05**
Associated Blank: **SS0313B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/12/01	03/12/01	03/13/01	03/14/01	96.9	20.38	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
Benzyl alcohol	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
Benzoic acid	510	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U

Parameter	Result	
3-Nitroaniline	510	U
2,4-Dinitrophenol	2500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	2500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	102	25-121
Phenol-d5	101	24-113
Nitrobenzene-d5	100	23-120
2-Fluorobiphenyl	99	30-115
2,4,6-Tribromophenol	106	19-122
Terphenyl-d14	108	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **SS0313B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/13/01	03/14/01	100	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
Benzyl alcohol	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
Benzoic acid	500	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U

Parameter	Result	
3-Nitroaniline	500	U
2,4-Dinitrophenol	2500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	2500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	87	25-121
Phenol-d5	86	24-113
Nitrobenzene-d5	87	23-120
2-Fluorobiphenyl	88	30-115
2,4,6-Tribromophenol	81	19-122
Terphenyl-d14	89	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **SS0313L1**
Associated Blank: **SS0313B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/13/01	100	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	5100	51	26-90
2-Chlorophenol	5700	57	25-102
1,4-Dichlorobenzene	2500	50	28-104
N-Nitroso-di-n-propylamine	2700	55	41-126
1,2,4-Trichlorobenzene	2800	55	38-107
4-Chloro-3-methylphenol	6100	61	26-103
Acenaphthene	2900	57	31-137
2,4-Dinitrotoluene	3000	60	28-89
4-Nitrophenol	6200	62	11-114
Pentachlorophenol	5200	52	17-109
Pyrene	3000	61	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	55	25-121
Phenol-d5	55	24-113
Nitrobenzene-d5	56	23-120
2-Fluorobiphenyl	57	30-115
2,4,6-Tribromophenol	57	19-122
Terphenyl-d14	60	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145555**
Lab ID: **See Below**
Associated Blank: **SS0313B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
03/12/01	03/12/01	03/13/01	96.9	CLM

Lab ID:	45555-05		45555-05		45555-05				
Parameter	**Sample Conc.**		**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Phenol	250	U	8600	84	9900	97[a]	15	35	26-90
2-Chlorophenol	250	U	9900	97	11000	108[a]	11	50	25-102
1,4-Dichlorobenzene	250	U	4200	82	4500	90	9	27	28-104
N-Nitroso-di-n-propylamine	250	U	4400	86	4900	97	12	38	41-126
1,2,4-Trichlorobenzene	250	U	4500	88	4900	97	10	23	38-107
4-Chloro-3-methylphenol	250	U	10000	98	11000	111[a]	13	33	26-103
Acenaphthene	250	U	4600	91	5100	100	9	19	31-137
2,4-Dinitrotoluene	250	U	4800	94[a]	5500	108[a]	14	47	28-89
4-Nitrophenol	510	U	11000	105	12000	118[a]	11	50	11-114
Pentachlorophenol	510	U	9400	92	11000	106	13	47	17-109
Pyrene	250	U	5000	98	5600	111	13	36	35-142

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
2-Fluorophenol	90	100	25-121
Phenol-d5	90	101	24-113
Nitrobenzene-d5	94	105	23-120
2-Fluorobiphenyl	92	99	30-115
2,4,6-Tribromophenol	101	113	19-122
Terphenyl-d14	96	113	18-137

[a] - Value outside of QC Limits.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Woods Hole Group

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767

INFORMATIONAL BULLETIN #1

Analytical Method Revisions to the Massachusetts Contingency Plan (MCP)

In the coming months there will be many significant changes in the requirements for the analysis of environmental samples in support of MCP actions. From time to time, Woods Hole Group, Inc. will be developing a series of "Informational Notes" which will be forwarded to our clients in an effort to keep them on the cusp of new analytical developments.

The Massachusetts Department of Environmental Protection (MADEP) is assisting the environmental professional community in their evaluation of information for decision making at MCP sites. The DEP has formed a work group, known as the "Data Summit", which Woods Hole Group is an active voice. The groups' goal is to standardize the information reported to data users from various laboratories, for a parallel comparison in determining appropriate actions of MCP sites. The summit is utilizing EPA SW-846 methodologies as the guideline to define the minimal standards of performance in laboratory data quality. The Data Summit is comprised of the DEP, the Licensed Site Professional Association (LSPA), the Independent Testing Laboratory Association (ITLA), and various independent data validators.

The first methods being standardized are 8260B for volatile organic compounds and 6010B for inorganic analysis. Minimum data quality objectives (DQO) are being identified throughout the analytical process. These DQOs must be maintained to produce data of acceptable quality for MCP use. Confirmation of the DQO obtained may be required by the DEP in any audit process. Woods Hole Group will be able to provide validatable data packages when the audits occur.

Some of the standards of performance that will be defined in the DQOs are as follows:

- Expanded analyte lists for both 8260B and 6010B
- Laboratory control spikes with all target analytes for each batch of samples
- Standardized instrument calibration criteria
- Reporting limits defined by the concentration of the low-level standard
- Tentatively identified compounds (TICs) on initial site investigations and when warranted by site specific conditions

The draft document containing these criteria is available on the DEP web-site, www.state.ma.us/dep/bwsc/. Click on "Policies-draft". The initial release is for public comment. Methods for the semi-volatile organic compounds and mercury are currently under review by the Data Summit group and are expected to follow soon.

In addition to the method specific sections, a separate general reporting section for the MCP is being drafted as well. This will clearly define the minimal data deliverables a laboratory must produce and what data must be available for validation during an audit. The general reporting area does stress the need for communication between data users and data producers before actual samples are taken in the field. Woods Hole Group supports this philosophy that will ensure MCP acceptable data for decision making.

Case narratives for each analytical report will also be required. The narrative must include comments on any anomalous conditions noted for any sample(s) received and analyzed by the laboratory. Any DQO defined in the MCP guidance document for a specific method that is not obtained must be documented in the narrative.

Some of these changes will be internal to the laboratory, and you, the data user will not be aware of them through the generation of a final laboratory report. Other changes will greatly effect the data that you receive and how you must respond to it. In many cases Woods Hole Group Inc. is already providing this information, and other changes will be implemented as they are released. This program is on a fast track and changes will come quickly, we are here to help you weather the changes and answer your questions. Please give us your feed back on these changes and stay tuned for future announcements.

(508) 822-9300 / (508) 822-3288 (fax) / whale@ultranet.com / www.whgrp.com

APPENDIX D-3

Confirmatory Laboratory Analytical Results
Area 3

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	Bldg A-85
ETR:	00145563
Report Date:	03/16/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45563
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Semi-Volatile Organics by GC/MS

1. Sample SBNL14-A3-7WSW (45563-15) was initially analyzed without dilution resulting in Fluoranthene and Pyrene exceeding the instrument calibration range. The sample was re-analyzed at a1:2 dilution and was reported with the associated elevated reporting limits. Both analyses were reported to obtain the lowest possible reporting limits.

Volatile Organics by GC/MS

1. Sample SBNL14-A3-6SS (45563-12) had a low response for the last internal standard 1,4-Dichlorobenzene-d4 and a low surrogate recovery for 4-Bromofluorobenzene on 3/14/01. The sample was re-analyzed on 3/15/01 with acceptable surrogate recoveries however the last internal standard was still low confirming a matrix effect. The re-analysis only was reported.

2. Sample SBNL14-A3-6SSW (45563-13) had a low response for the last internal standard 1,4-Dichlorobenzene-d4 on 3/14/01 and was re-analyzed on 3/16/01. The re-analysis also resulted in a low response for the last internal standard confirming sample matrix effect. The original analysis only was reported.

3. Sample SBNL14-A3-7SS (45563-14) had a low response for the last internal standard 1,4-Dichlorobenzene-d4 on 3/14/01 and was re-analyzed on 3/15/01. The re-analysis met all QC limits, however, the sample was analyzed one minute outside of tune time. Both analyses were reported for review.

Metals

Samples associated with this ETR were prepared in two batches due to the large number of samples. Sample SBNL14-A3-1SS (45563-01) was prepared as the QC sample for Batch 1 and sample SBNL14-A3-10WSW (45563-21) was prepared as the QC sample for Batch 2. All QC measures were within method acceptance criteria except the following:

1. Barium: The RPD between duplicates for Batch 2 was 26% and exceeds the method acceptance limit of 20%.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerard R. Graham Date: 3-16-01
Woods Hole Group Environmental Laboratories

F:\SHARED\NARRTEMP\FOSWHE\45563.dot

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767

TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA 02110
Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: SUE LEACH / KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/13/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/ PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	40 mL / VOA / NAHSO4	40 mL / VOA / MEOH			
							NUMBER OF CONTAINERS					
45563-1	SBNL14-A3-1SS	3/13/01	1015	GRAB	SOIL	TPH (IR), SVOC, VOC, RCRA 8 PLUS Ni, Cu, Zn	1	2	1			
-2	SBNL14-A3-1NSW	↓	1015	↓	↓	↓	↓	↓	↓			
-3	SBNL14-A3-2SS	↓	1020	↓	↓	↓	↓	↓	↓			
-4	SBNL14-A3-2ESW	↓	1020	↓	↓	↓	↓	↓	↓			
-5	SBNL14-A3-2WSW	↓	1020	↓	↓	↓	↓	↓	↓			
-6	SBNL14-A3-3SS	↓	1025	↓	↓	↓	↓	↓	↓			
-7	SBNL14-A3-3ESW	↓	1025	↓	↓	↓	↓	↓	↓			
-8	SBNL14-A3-4SS	↓	1030	↓	↓	↓	↓	↓	↓			
-9	SBNL14-A3-4ESW	↓	1030	↓	↓	↓	↓	↓	↓			
-10	SBNL14-A3-5SS	↓	1035	↓	↓	↓	↓	↓	↓			

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
[signature]	3/13/01	17:17	[signature]
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
TRIP BLANK INCLUDED

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

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Raynham, MA 02767
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Facsimile: (617) 457-8499 (860) 848-7363
Contact Name: SUE LEACH | KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG A-85
Project Number: B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/13/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz GLASS / ICE; 40mL VOA / NAHSO4; 40mL VOA / MEOH

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	NUMBER OF CONTAINERS					
47763-11	SBNL14-A3-5ESW	3/13/01	1035	GRAB	SOIL	TPH (IR), SVOC, VOC, RCRA 8 PLUS Ni, Co, Zn	1	2	1			
-12	SBNL14-A3-6SS		1040									
-13	SBNL14-A3-6SSW		1040									
-14	SBNL14-A3-7SS		1045									
-15	SBNL14-A3-7WSW		1045									
-16	SBNL14-A3-8SS		1050									
-17	SBNL14-A3-8WSW		1050									
-18	SBNL14-A3-9SS		1055									
-19	SBNL14-A3-9WSW		1055									
-20	SBNL14-A3-10SS		1100									

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. White	3/13/01	17:17	K. Bates
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab: TRIP BLANK INCLUDED

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Woods Hole Group
Environmental Laboratories

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COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/13/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	40 mL / VOA / NaHSO4	40 mL / VOA / MEOH			
							NUMBER OF CONTAINERS					
4363-21	SBNL14-A3-10WSW	3/13/01	1100	GRAB	SOIL	TPH(IR), SVOC, VOC, RCRA 8 PLUS Ni, Cu, Zn	1	2	1			
22	SBNL14-A3-11SS	↓	1110	↓	↓	↓	↓	↓	↓			
23	SBNL14-A3-11SSW	↓	1110	↓	↓	↓	↓	↓	↓			

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. Whitt	3/13/01	17:17	K Bates
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab: TRIP BLANK INCLUDED

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145563-01	SBNL14-A3-1SS	SOIL	03/13/2001 10:15:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145563-02	SBNL14-A3-1NSW	SOIL	03/13/2001 10:15:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-03	SBNL14-A3-2SS	SOIL	03/13/2001 10:20:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145563-04	SBNL14-A3-2ESW	SOIL	03/13/2001 10:20:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-05	SBNL14-A3-2WSW	SOIL	03/13/2001 10:20:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-06	SBNL14-A3-3SS	SOIL	03/13/2001 10:25:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-07	SBNL14-A3-3ESW	SOIL	03/13/2001 10:25:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-08	SBNL14-A3-4SS	SOIL	03/13/2001 10:30:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			
0145563-09	SBNL14-A3-4ESW	SOIL	03/13/2001 10:30:00 AM	03/13/2001 5:17:00 PM
	Lab Testing:			
	8260B Volatile Organics -- GC/MS			
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145563-10	SBNL14-A3-5SS	SOIL	03/13/2001 10:35:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145563-11	SBNL14-A3-5ESW	SOIL	03/13/2001 10:35:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-12	SBNL14-A3-6SS	SOIL	03/13/2001 10:40:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145563-13	SBNL14-A3-6SSW	SOIL	03/13/2001 10:40:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-14	SBNL14-A3-7SS	SOIL	03/13/2001 10:45:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-15	SBNL14-A3-7WSW	SOIL	03/13/2001 10:45:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-16	SBNL14-A3-8SS	SOIL	03/13/2001 10:50:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-17	SBNL14-A3-8WSW	SOIL	03/13/2001 10:50:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			
0145563-18	SBNL14-A3-9SS	SOIL	03/13/2001 10:55:00 AM	03/13/2001 5:17:00 PM
	Lab Testing:			
	8260B Volatile Organics -- GC/MS			
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Copper - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	TPH by IR			
	Zinc - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145563-19	SBNL14-A3-9WSW	SOIL	03/13/2001 10:55:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
TPH by IR
Zinc - 6020

0145563-20	SBNL14-A3-10SS	SOIL	03/13/2001 11:00:00 AM	03/13/2001 5:17:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-21	SBNL14-A3-10WSW	SOIL	03/13/2001 11:00:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-22	SBNL14-A3-11SS	SOIL	03/13/2001 11:10:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-23	SBNL14-A3-11SSW	SOIL	03/13/2001 11:10:00 AM	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 TPH by IR Zinc - 6020			
0145563-24	Trip Blank	SOIL	03/13/2001	03/13/2001 5:17:00 PM
	Lab Testing: 8260B Volatile Organics -- GC/MS			

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-1SS
Lab ID: 0145563-01

Matrix: SOIL
% SOLIDS: 93%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	3.8		mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Barium, Total	14		mg/kg dry	5	0.067	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.034	U	mg/kg dry	5	0.034	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	2.4		mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Copper, Total	3.2		mg/kg dry	5	0.34	6020	03/14/2001	03/15/2001	MDM
Lead, Total	1.5		mg/kg dry	5	0.67	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.010	U	mg/kg dry	1	0.010	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	1.9		mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.035	U	mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	11		mg/kg dry	5	0.67	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-1NSW
Lab ID: 0145563-02

Matrix: SOIL
% SOLIDS: 93%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	8.3		mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Barium, Total	12		mg/kg dry	5	0.070	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.035	U	mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	2.5		mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Copper, Total	2.7		mg/kg dry	5	0.35	6020	03/14/2001	03/15/2001	MDM
Lead, Total	1.2		mg/kg dry	5	0.70	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.010	U	mg/kg dry	1	0.010	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	1.7		mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.035	U	mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	9.4		mg/kg dry	5	0.70	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-2SS
Lab ID: 0145563-03
Matrix: SOIL
% SOLIDS: 95%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	12		mg/kg dry	5	0.16	6020	03/14/2001	03/15/2001	MDM
Barium, Total	8.9		mg/kg dry	5	0.065	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.033	U	mg/kg dry	5	0.033	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	2.0		mg/kg dry	5	0.16	6020	03/14/2001	03/15/2001	MDM
Copper, Total	3.1		mg/kg dry	5	0.33	6020	03/14/2001	03/15/2001	MDM
Lead, Total	1.9		mg/kg dry	5	0.65	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.010	U	mg/kg dry	1	0.010	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	1.5		mg/kg dry	5	0.16	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.033	U	mg/kg dry	5	0.033	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	9.1		mg/kg dry	5	0.65	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-2ESW
Lab ID: 0145563-04
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.62		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Barium, Total	22		mg/kg dry	5	0.071	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.036	U	mg/kg dry	5	0.036	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	4.6		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Copper, Total	5.1		mg/kg dry	5	0.36	6020	03/14/2001	03/15/2001	MDM
Lead, Total	5.6		mg/kg dry	5	0.71	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	3.5		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.035	U	mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	34		mg/kg dry	5	0.71	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-2WSW
Lab ID: 0145563-05

Matrix: SOIL
% SOLIDS: 78%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	3.7		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Barium, Total	38		mg/kg dry	5	0.078	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.051		mg/kg dry	5	0.039	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	16		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Copper, Total	9.0		mg/kg dry	5	0.39	6020	03/14/2001	03/15/2001	MDM
Lead, Total	8.5		mg/kg dry	5	0.78	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.029		mg/kg dry	1	0.012	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	8.1		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.66		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.089		mg/kg dry	5	0.042	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	28		mg/kg dry	5	0.78	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-3SS
Lab ID: 0145563-06

Matrix: SOIL
% SOLIDS: 84%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	19		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Barium, Total	36		mg/kg dry	5	0.074	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.044		mg/kg dry	5	0.037	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	10		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Copper, Total	13		mg/kg dry	5	0.37	6020	03/14/2001	03/15/2001	MDM
Lead, Total	7.6		mg/kg dry	5	0.74	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.012	U	mg/kg dry	1	0.012	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	7.9		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.036	U	mg/kg dry	5	0.036	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	28		mg/kg dry	5	0.74	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-3ESW
Lab ID: 0145563-07
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.5		mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Barium, Total	20		mg/kg dry	5	0.070	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.035	U	mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	7.6		mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Copper, Total	5.4		mg/kg dry	5	0.35	6020	03/14/2001	03/15/2001	MDM
Lead, Total	2.2		mg/kg dry	5	0.70	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.012	U	mg/kg dry	1	0.012	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	5.1		mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.038	U	mg/kg dry	5	0.038	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	14		mg/kg dry	5	0.70	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-4SS
Lab ID: 0145563-08
Matrix: SOIL
% SOLIDS: 74%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	320		mg/kg dry	5	0.21	6020	03/14/2001	03/15/2001	MDM
Barium, Total	47		mg/kg dry	5	0.083	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.18		mg/kg dry	5	0.042	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	17		mg/kg dry	5	0.21	6020	03/14/2001	03/15/2001	MDM
Copper, Total	18		mg/kg dry	5	0.42	6020	03/14/2001	03/15/2001	MDM
Lead, Total	100		mg/kg dry	5	0.83	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.060		mg/kg dry	1	0.014	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	8.4		mg/kg dry	5	0.21	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.21	U	mg/kg dry	5	0.21	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.11		mg/kg dry	5	0.039	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	78		mg/kg dry	5	0.83	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-4ESW
Lab ID: 0145563-09

Matrix: SOIL
% SOLIDS: 88%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	5.5		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Barium, Total	21		mg/kg dry	5	0.077	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.048		mg/kg dry	5	0.038	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	8.5		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Copper, Total	7.8		mg/kg dry	5	0.38	6020	03/14/2001	03/15/2001	MDM
Lead, Total	6.6		mg/kg dry	5	0.77	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.013		mg/kg dry	1	0.012	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	5.0		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.19	U	mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.039		mg/kg dry	5	0.033	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	20		mg/kg dry	5	0.77	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-5SS
Lab ID: 0145563-10

Matrix: SOIL
% SOLIDS: 84%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	18		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Barium, Total	48		mg/kg dry	5	0.074	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.076		mg/kg dry	5	0.037	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	23		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Copper, Total	16		mg/kg dry	5	0.37	6020	03/14/2001	03/15/2001	MDM
Lead, Total	7.0		mg/kg dry	5	0.74	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.017		mg/kg dry	1	0.012	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	13		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.45		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.052		mg/kg dry	5	0.037	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	51		mg/kg dry	5	0.74	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-5ESW
Lab ID: 0145563-11

Matrix: SOIL
% SOLIDS: 79%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	8.2		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Barium, Total	43		mg/kg dry	5	0.072	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.050		mg/kg dry	5	0.036	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	20		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Copper, Total	23		mg/kg dry	5	0.36	6020	03/14/2001	03/15/2001	MDM
Lead, Total	6.6		mg/kg dry	5	0.72	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.017		mg/kg dry	1	0.013	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	10		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.47		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.077		mg/kg dry	5	0.037	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	38		mg/kg dry	5	0.72	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-6SS
Lab ID: 0145563-12

Matrix: SOIL
% SOLIDS: 78%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.8		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Barium, Total	26		mg/kg dry	5	0.081	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.040	U	mg/kg dry	5	0.040	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	15		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Copper, Total	7.8		mg/kg dry	5	0.40	6020	03/14/2001	03/15/2001	MDM
Lead, Total	7.6		mg/kg dry	5	0.81	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.017		mg/kg dry	1	0.013	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	6.8		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.75		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.054		mg/kg dry	5	0.039	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	20		mg/kg dry	5	0.81	6020	03/14/2001	03/15/2001	MDM

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RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-6SSW
Lab ID: 0145563-13

Matrix: SOIL
% SOLIDS: 72%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	28		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Barium, Total	29		mg/kg dry	5	0.087	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.058		mg/kg dry	5	0.043	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	14		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Copper, Total	12		mg/kg dry	5	0.43	6020	03/14/2001	03/15/2001	MDM
Lead, Total	9.3		mg/kg dry	5	0.87	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.022		mg/kg dry	1	0.014	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	7.2		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.87		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.094		mg/kg dry	5	0.045	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	31		mg/kg dry	5	0.87	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-7SS
Lab ID: 0145563-14

Matrix: SOIL
% SOLIDS: 86%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	8.5		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Barium, Total	42		mg/kg dry	5	0.070	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.049		mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	12		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Copper, Total	18		mg/kg dry	5	0.35	6020	03/14/2001	03/15/2001	MDM
Lead, Total	6.8		mg/kg dry	5	0.70	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.018		mg/kg dry	1	0.011	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	7.5		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.28		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.048		mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	37		mg/kg dry	5	0.70	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

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ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-7WSW
Lab ID: 0145563-15

Matrix: SOIL
% SOLIDS: 86%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	4.1		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Barium, Total	32		mg/kg dry	5	0.073	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.037		mg/kg dry	5	0.037	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	8.1		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Copper, Total	9.0		mg/kg dry	5	0.37	6020	03/14/2001	03/15/2001	MDM
Lead, Total	7.5		mg/kg dry	5	0.73	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.012		mg/kg dry	1	0.011	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	5.6		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.032	U	mg/kg dry	5	0.032	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	29		mg/kg dry	5	0.73	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-8SS
Lab ID: 0145563-16

Matrix: SOIL
% SOLIDS: 85%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	16		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Barium, Total	42		mg/kg dry	5	0.071	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.060		mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	13		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Copper, Total	17		mg/kg dry	5	0.35	6020	03/14/2001	03/15/2001	MDM
Lead, Total	9.8		mg/kg dry	5	0.71	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.019		mg/kg dry	1	0.011	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	8.8		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.39		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.045		mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	61		mg/kg dry	5	0.71	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-8WSW
Lab ID: 0145563-17

Matrix: SOIL
% SOLIDS: 88%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	10		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Barium, Total	35		mg/kg dry	5	0.071	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.058		mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	11		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Copper, Total	11		mg/kg dry	5	0.35	6020	03/14/2001	03/15/2001	MDM
Lead, Total	9.5		mg/kg dry	5	0.71	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	8.2		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.21		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.036	U	mg/kg dry	5	0.036	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	25		mg/kg dry	5	0.71	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-9SS
Lab ID: 0145563-18

Matrix: SOIL
% SOLIDS: 84%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.0		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Barium, Total	27		mg/kg dry	5	0.078	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.039	U	mg/kg dry	5	0.039	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	9.7		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Copper, Total	11		mg/kg dry	5	0.39	6020	03/14/2001	03/15/2001	MDM
Lead, Total	5.1		mg/kg dry	5	0.78	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.018		mg/kg dry	1	0.012	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	5.8		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.64		mg/kg dry	5	0.19	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.050		mg/kg dry	5	0.040	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	25		mg/kg dry	5	0.78	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-9WSW
Lab ID: 0145563-19

Matrix: SOIL
% SOLIDS: 81%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	18		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Barium, Total	31		mg/kg dry	5	0.071	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.055		mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	10		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Copper, Total	13		mg/kg dry	5	0.35	6020	03/14/2001	03/15/2001	MDM
Lead, Total	8.2		mg/kg dry	5	0.71	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.019		mg/kg dry	1	0.011	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	6.6		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.34		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.059		mg/kg dry	5	0.040	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	29		mg/kg dry	5	0.71	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-10SS
Lab ID: 0145563-20

Matrix: SOIL
% SOLIDS: 73%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	4.8		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Barium, Total	32		mg/kg dry	5	0.086	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.043	U	mg/kg dry	5	0.043	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	19		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Copper, Total	11		mg/kg dry	5	0.43	6020	03/14/2001	03/15/2001	MDM
Lead, Total	9.7		mg/kg dry	5	0.86	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.024		mg/kg dry	1	0.014	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	8.8		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.75		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.086		mg/kg dry	5	0.039	6020	03/14/2001	03/15/2001	CLM
Zinc, Total	27		mg/kg dry	5	0.86	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-10WSW
Lab ID: 0145563-21

Matrix: SOIL
% SOLIDS: 86%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	15		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Barium, Total	37		mg/kg dry	5	0.070	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.074		mg/kg dry	5	0.035	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	12		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Copper, Total	16		mg/kg dry	5	0.35	6020	03/14/2001	03/15/2001	MDM
Lead, Total	10		mg/kg dry	5	0.70	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.017		mg/kg dry	1	0.011	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	8.0		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.32		mg/kg dry	5	0.18	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.057		mg/kg dry	5	0.034	6020	03/14/2001	03/15/2001	MDM
Zinc, Total	39		mg/kg dry	5	0.70	6020	03/14/2001	03/15/2001	MDM

Sample ID: SBNL14-A3-11SS
Lab ID: 0145563-22

Matrix: SOIL
% SOLIDS: 68%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.7		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Barium, Total	62		mg/kg dry	5	0.090	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.058		mg/kg dry	5	0.045	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	16		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Copper, Total	36		mg/kg dry	5	0.45	6020	03/14/2001	03/15/2001	MDM
Lead, Total	10		mg/kg dry	5	0.90	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.036		mg/kg dry	1	0.015	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	8.4		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.91		mg/kg dry	5	0.22	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.075		mg/kg dry	5	0.042	6020	03/14/2001	03/15/2001	MDM
Zinc, Total	48		mg/kg dry	5	0.90	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-11SSW
Lab ID: 0145563-23

Matrix: SOIL
% SOLIDS: 75%

Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	4.7		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Barium, Total	40		mg/kg dry	5	0.081	6020	03/14/2001	03/15/2001	MDM
Cadmium, Total	0.056		mg/kg dry	5	0.040	6020	03/14/2001	03/15/2001	MDM
Chromium, Total	19		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Copper, Total	15		mg/kg dry	5	0.40	6020	03/14/2001	03/15/2001	MDM
Lead, Total	7.2		mg/kg dry	5	0.81	6020	03/14/2001	03/15/2001	MDM
Mercury, Total	0.022		mg/kg dry	1	0.013	7471	03/14/2001	03/15/2001	LMR
Nickel, Total	9.8		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Selenium, Total	0.62		mg/kg dry	5	0.20	6020	03/14/2001	03/15/2001	MDM
Silver, Total	0.056		mg/kg dry	5	0.042	6020	03/14/2001	03/15/2001	MDM
Zinc, Total	31		mg/kg dry	5	0.81	6020	03/14/2001	03/15/2001	MDM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler
Project: Bldg A-85
ETR: 45563

Parameter	sample ID	analysis date	Blank (ug/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	quali -fier
Arsenic	45563-01	03/15/01	<2.5	3.8	8	2.84	106	136	94	
Barium	45563-01	03/15/01	<1.0	14	15	274	84	132	85	
Cadmium	45563-01	03/15/01	<0.5	<0.034	0	2.84	96	121	98	
Chromium	45563-01	03/15/01	<2.5	2.4	4	2.84	89	89.7	90	
Copper	45563-01	03/15/01	<5.0	3.2	6	2.84	104	118	94	
Lead	45563-01	03/15/01	<5.0	1.5	0	2.84	95	144	88	
Mercury	45563-01	03/15/01	<0.1	<0.010	0	0.25	0	2.48	114	
Nickel	45563-01	03/15/01	<2.5	1.9	6	2.84	94	161	94	
Selenium	45563-01	03/15/01	<2.5	<0.17	0	2.84	95	95.0	97	
Silver	45563-01	03/15/01	<0.5	<0.035	0	2.61	103	119	106	
Zinc	45563-01	03/15/01	<10	11	17	274	90	72.1	77	

Qualifiers & Notes:
B=Reported QC is for associated batch
RPD = relative percent difference
C= Sample spiked less than 0.25X sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

Inorganic Quality Control Summary

Client: Foster Wheeler
Project: Bldg A-85
ETR: 45563

Parameter	sample ID	analysis date	Blank (ug/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	quali -fier
Arsenic	45563-21	03/15/01	<2.5	15	6	290	93	136	98	
Barium	45563-21	03/15/01	<1.0	37	26	290	87	132	89	N
Cadmium	45563-21	03/15/01	<0.5	0.074	11	2.90	97	121	101	
Chromium	45563-21	03/15/01	<2.5	12	0	290	88	89.7	94	
Copper	45563-21	03/15/01	<5.0	16	0	290	84	118	97	
Lead	45563-21	03/15/01	<5.0	10	10	290	86	144	90	
Mercury	45556-05	03/15/01	<0.1	0.71	28	0.29	114	2.48	112	B
Nickel	45563-21	03/15/01	<2.5	8.0	2	290	91	161	100	
Selenium	45563-21	03/15/01	<2.5	0.32	37	2.90	97	95.0	100	R
Silver	45563-21	03/15/01	<0.5	0.057	13	2.98	105	119	102	
Zinc	45563-21	03/15/01	<10	39	5	290	91	72.1	82	

Qualifiers & Notes:
B=Reported QC is for associated batch
RPD = relative percent difference
C= Sample spiked less than 0.25X sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-1SS
Lab ID: 0145563-01
Matrix: SOIL
% SOLIDS: 93%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	10	U	mg/kg dry	1	10	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-1NSW
Lab ID: 0145563-02
Matrix: SOIL
% SOLIDS: 93%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	7.0	U	mg/kg dry	1	7.0	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-2SS
Lab ID: 0145563-03
Matrix: SOIL
% SOLIDS: 95%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	22		mg/kg dry	1	4.4	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-2ESW
Lab ID: 0145563-04
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	20		mg/kg dry	1	4.8	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-2WSW
Lab ID: 0145563-05
Matrix: SOIL
% SOLIDS: 78%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	27		mg/kg dry	1	6.6	418.1	03/14/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-3SS
Lab ID: 0145563-06
Matrix: SOIL
% SOLIDS: 84%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	120		mg/kg dry	1	4.9	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-3ESW
Lab ID: 0145563-07
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	10	U	mg/kg dry	1	10	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-4SS
Lab ID: 0145563-08
Matrix: SOIL
% SOLIDS: 74%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	36		mg/kg dry	1	3.7	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-4ESW
Lab ID: 0145563-09
Matrix: SOIL
% SOLIDS: 88%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	240		mg/kg dry	1	3.6	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-5SS
Lab ID: 0145563-10
Matrix: SOIL
% SOLIDS: 84%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	26		mg/kg dry	1	4.3	418.1	03/14/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

. Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-5ESW
Lab ID: 0145563-11
Matrix: SOIL
% SOLIDS: 79%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	130		mg/kg dry	1	4.0	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-6SS
Lab ID: 0145563-12
Matrix: SOIL
% SOLIDS: 78%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	15		mg/kg dry	1	4.2	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-6SSW
Lab ID: 0145563-13
Matrix: SOIL
% SOLIDS: 72%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	50		mg/kg dry	1	5.4	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-7SS
Lab ID: 0145563-14
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	73		mg/kg dry	1	4.8	418.1	03/14/2001	MAK

Sample ID: SBNL14-A3-7WSW
Lab ID: 0145563-15
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	160		mg/kg dry	1	4.9	418.1	03/14/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-8SS
Lab ID: 0145563-16
Matrix: SOIL
% SOLIDS: 85%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	120		mg/kg dry	1	3.6	418.1	03/15/2001	MAK

Sample ID: SBNL14-A3-8WSW
Lab ID: 0145563-17
Matrix: SOIL
% SOLIDS: 88%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	82		mg/kg dry	1	3.4	418.1	03/15/2001	MAK

Sample ID: SBNL14-A3-9SS
Lab ID: 0145563-18
Matrix: SOIL
% SOLIDS: 84%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	20		mg/kg dry	1	3.1	418.1	03/15/2001	MAK

Sample ID: SBNL14-A3-9WSW
Lab ID: 0145563-19
Matrix: SOIL
% SOLIDS: 81%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	29		mg/kg dry	1	3.6	418.1	03/15/2001	MAK

Sample ID: SBNL14-A3-10SS
Lab ID: 0145563-20
Matrix: SOIL
% SOLIDS: 73%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	29		mg/kg dry	1	3.6	418.1	03/15/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145563
Project: Bldg A-85

Sample ID: SBNL14-A3-10WSW
Lab ID: 0145563-21
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	140		mg/kg dry	1	3.1	418.1	03/15/2001	MAK

Sample ID: SBNL14-A3-11SS
Lab ID: 0145563-22
Matrix: SOIL
% SOLIDS: 68%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	55		mg/kg dry	1	4.4	418.1	03/15/2001	MAK

Sample ID: SBNL14-A3-11SSW
Lab ID: 0145563-23
Matrix: SOIL
% SOLIDS: 75%
Date Collected: 03/13/2001
Date Received: 03/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	220		mg/kg dry	1	4.5	418.1	03/15/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-1SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-01**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	92.8	20.21	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
Benzyl alcohol	2700	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
Benzoic acid	530	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	270	U
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	270	U
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	530	U
2-Chloronaphthalene	270	U
2-Nitroaniline	530	U
Acenaphthylene	270	U
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	270	U

Parameter	Result	
3-Nitroaniline	530	U
2,4-Dinitrophenol	530	U
Dibenzofuran	270	U
2,4-Dinitrotoluene	270	U
4-Nitrophenol	530	U
Fluorene	270	U
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	530	U
4,6-Dinitro-2-methylphenol	530	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	530	U
Phenanthrene	270	U
Anthracene	270	U
Di-n-butylphthalate	270	U
Fluoranthene	**82**	J
Pyrene	**75**	J
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	270	U
Benz[a]anthracene	270	U
Chrysene	270	U
bis(2-Ethylhexyl)phthalate	270	U
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	270	U
Benzo[k]fluoranthene	270	U
Benzo[a]pyrene	270	U
Indeno[1,2,3-cd]pyrene	270	U
Dibenz[a,h]anthracene	270	U
Benzo[g,h,i]perylene	270	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	74	25-121
Phenol-d5	75	24-113
Nitrobenzene-d5	72	23-120
2-Fluorobiphenyl	72	30-115
2,4,6-Tribromophenol	85	19-122
Terphenyl-d14	76	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-1NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-02**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	93.4	20.24	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
Benzyl alcohol	2600	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
Benzoic acid	530	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	530	U
2-Chloronaphthalene	260	U
2-Nitroaniline	530	U
Acenaphthylene	260	U
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U

Parameter	Result	
3-Nitroaniline	530	U
2,4-Dinitrophenol	530	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	530	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	530	U
4,6-Dinitro-2-methylphenol	530	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	530	U
Phenanthrene	260	U
Anthracene	260	U
Di-n-butylphthalate	260	U
Fluoranthene	260	U
Pyrene	260	U
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	260	U
Chrysene	260	U
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	260	U
Benzo[k]fluoranthene	260	U
Benzo[a]pyrene	260	U
Indeno[1,2,3-cd]pyrene	260	U
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	260	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	64	25-121
Phenol-d5	67	24-113
Nitrobenzene-d5	64	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	76	19-122
Terphenyl-d14	70	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-2SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-03**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	95.1	20.24	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
Benzyl alcohol	2600	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
Benzoic acid	520	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	520	U
2-Chloronaphthalene	260	U
2-Nitroaniline	520	U
Acenaphthylene	260	U
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U

Parameter	Result	
3-Nitroaniline	520	U
2,4-Dinitrophenol	520	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	520	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	520	U
4,6-Dinitro-2-methylphenol	520	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	520	U
Phenanthrene	**110**	J
Anthracene	260	U
Di-n-butylphthalate	260	U
Fluoranthene	**300**	
Pyrene	**290**	
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	**100**	J
Chrysene	**160**	J
bis(2-Ethylhexyl)phthalate	**60**	J
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**130**	J
Benzo[k]fluoranthene	**100**	J
Benzo[a]pyrene	**100**	J
Indeno[1,2,3-cd]pyrene	**72**	J
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	**82**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	69	25-121
Phenol-d5	72	24-113
Nitrobenzene-d5	69	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	89	19-122
Terphenyl-d14	82	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-2ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-04**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	86.6	20.26	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	280	U
2-Nitroaniline	570	U
Acenaphthylene	**58**	J
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	**180**	J

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	**83**	J
2,4-Dinitrotoluene	280	U
4-Nitrophenol	570	U
Fluorene	**170**	J
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	570	U
Phenanthrene	**1600**	
Anthracene	**430**	
Di-n-butylphthalate	280	U
Fluoranthene	**2200**	
Pyrene	**1700**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	**260**	J
Benz[a]anthracene	**930**	
Chrysene	**930**	
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**940**	
Benzo[k]fluoranthene	**440**	
Benzo[a]pyrene	**770**	
Indeno[1,2,3-cd]pyrene	**480**	
Dibenz[a,h]anthracene	**130**	J
Benzo[g,h,i]perylene	**500**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	71	25-121
Phenol-d5	72	24-113
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	85	19-122
Terphenyl-d14	72	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-2WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-05**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	78.2	20.28	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	320	U
Phenol	320	U
2-Chlorophenol	320	U
1,3-Dichlorobenzene	320	U
1,4-Dichlorobenzene	320	U
1,2-Dichlorobenzene	320	U
Benzyl alcohol	3200	U
bis(2-chloroisopropyl)ether	320	U
2-Methylphenol	320	U
Hexachloroethane	320	U
N-Nitroso-di-n-propylamine	320	U
4-Methylphenol	320	U
Nitrobenzene	320	U
Isophorone	320	U
2-Nitrophenol	320	U
2,4-Dimethylphenol	320	U
Benzoic acid	630	U
bis(2-Chloroethoxy)methane	320	U
2,4-Dichlorophenol	320	U
1,2,4-Trichlorobenzene	320	U
Naphthalene	320	U
4-Chloroaniline	320	U
Hexachlorobutadiene	320	U
4-Chloro-3-methylphenol	320	U
2-Methylnaphthalene	320	U
Hexachlorocyclopentadiene	320	U
2,4,6-Trichlorophenol	320	U
2,4,5-Trichlorophenol	630	U
2-Chloronaphthalene	320	U
2-Nitroaniline	630	U
Acenaphthylene	320	U
Dimethylphthalate	320	U
2,6-Dinitrotoluene	320	U
Acenaphthene	320	U

Parameter	Result	
3-Nitroaniline	630	U
2,4-Dinitrophenol	630	U
Dibenzofuran	320	U
2,4-Dinitrotoluene	320	U
4-Nitrophenol	630	U
Fluorene	320	U
4-Chlorophenyl-phenylether	320	U
Diethylphthalate	320	U
4-Nitroaniline	630	U
4,6-Dinitro-2-methylphenol	630	U
n-Nitrosodiphenylamine	320	U
4-Bromophenyl-phenylether	320	U
Hexachlorobenzene	320	U
Pentachlorophenol	630	U
Phenanthrene	**380**	
Anthracene	**100**	J
Di-n-butylphthalate	320	U
Fluoranthene	**650**	
Pyrene	**640**	
Butylbenzylphthalate	320	U
3,3'-Dichlorobenzidine	320	U
Carbazole	**59**	J
Benz[a]anthracene	**290**	J
Chrysene	**310**	J
bis(2-Ethylhexyl)phthalate	320	U
Di-n-octylphthalate	320	U
Benzo[b]fluoranthene	**280**	J
Benzo[k]fluoranthene	**220**	J
Benzo[a]pyrene	**260**	J
Indeno[1,2,3-cd]pyrene	**140**	J
Dibenz[a,h]anthracene	320	U
Benzo[g,h,i]perylene	**140**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	66	25-121
Phenol-d5	69	24-113
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	81	19-122
Terphenyl-d14	73	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-3SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-06**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	84.3	20.24	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	590	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	290	U
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	290	U
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	590	U
2-Chloronaphthalene	290	U
2-Nitroaniline	590	U
Acenaphthylene	**84**	J
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	290	U

Parameter	Result	
3-Nitroaniline	590	U
2,4-Dinitrophenol	590	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	590	U
Fluorene	290	U
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	590	U
4,6-Dinitro-2-methylphenol	590	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	590	U
Phenanthrene	**150**	J
Anthracene	290	U
Di-n-butylphthalate	290	U
Fluoranthene	**490**	
Pyrene	**480**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	290	U
Benz[a]anthracene	**230**	J
Chrysene	**280**	J
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**280**	J
Benzo[k]fluoranthene	**150**	J
Benzo[a]pyrene	**220**	J
Indeno[1,2,3-cd]pyrene	**130**	J
Dibenz[a,h]anthracene	290	U
Benzo[g,h,i]perylene	**140**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	71	25-121
Phenol-d5	76	24-113
Nitrobenzene-d5	69	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	87	19-122
Terphenyl-d14	79	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-3ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-07**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	86.9	20.29	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	280	U
2-Nitroaniline	570	U
Acenaphthylene	280	U
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	570	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	570	U
Phenanthrene	280	U
Anthracene	280	U
Di-n-butylphthalate	280	U
Fluoranthene	280	U
Pyrene	280	U
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	280	U
Benz[a]anthracene	280	U
Chrysene	280	U
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	280	U
Benzo[k]fluoranthene	280	U
Benzo[a]pyrene	280	U
Indeno[1,2,3-cd]pyrene	280	U
Dibenz[a,h]anthracene	280	U
Benzo[g,h,i]perylene	280	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	75	25-121
Phenol-d5	76	24-113
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	92	19-122
Terphenyl-d14	83	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-4SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-08**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	74.1	20.25	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	330	U
Phenol	330	U
2-Chlorophenol	330	U
1,3-Dichlorobenzene	330	U
1,4-Dichlorobenzene	330	U
1,2-Dichlorobenzene	330	U
Benzyl alcohol	3300	U
bis(2-chloroisopropyl)ether	330	U
2-Methylphenol	330	U
Hexachloroethane	330	U
N-Nitroso-di-n-propylamine	330	U
4-Methylphenol	330	U
Nitrobenzene	330	U
Isophorone	330	U
2-Nitrophenol	330	U
2,4-Dimethylphenol	330	U
Benzoic acid	670	U
bis(2-Chloroethoxy)methane	330	U
2,4-Dichlorophenol	330	U
1,2,4-Trichlorobenzene	330	U
Naphthalene	330	U
4-Chloroaniline	330	U
Hexachlorobutadiene	330	U
4-Chloro-3-methylphenol	330	U
2-Methylnaphthalene	330	U
Hexachlorocyclopentadiene	330	U
2,4,6-Trichlorophenol	330	U
2,4,5-Trichlorophenol	670	U
2-Chloronaphthalene	330	U
2-Nitroaniline	670	U
Acenaphthylene	**190**	J
Dimethylphthalate	330	U
2,6-Dinitrotoluene	330	U
Acenaphthene	330	U

Parameter	Result	
3-Nitroaniline	670	U
2,4-Dinitrophenol	670	U
Dibenzofuran	330	U
2,4-Dinitrotoluene	330	U
4-Nitrophenol	670	U
Fluorene	330	U
4-Chlorophenyl-phenylether	330	U
Diethylphthalate	330	U
4-Nitroaniline	670	U
4,6-Dinitro-2-methylphenol	670	U
n-Nitrosodiphenylamine	330	U
4-Bromophenyl-phenylether	330	U
Hexachlorobenzene	330	U
Pentachlorophenol	670	U
Phenanthrene	**930**	
Anthracene	**170**	J
Di-n-butylphthalate	330	U
Fluoranthene	**2000**	
Pyrene	**1600**	
Butylbenzylphthalate	330	U
3,3'-Dichlorobenzidine	330	U
Carbazole	**160**	J
Benz[a]anthracene	**610**	
Chrysene	**980**	
bis(2-Ethylhexyl)phthalate	330	U
Di-n-octylphthalate	330	U
Benzo[b]fluoranthene	**820**	
Benzo[k]fluoranthene	**540**	
Benzo[a]pyrene	**620**	
Indeno[1,2,3-cd]pyrene	**360**	
Dibenz[a,h]anthracene	**95**	J
Benzo[g,h,i]perylene	**350**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	66	25-121
Phenol-d5	71	24-113
Nitrobenzene-d5	64	23-120
2-Fluorobiphenyl	65	30-115
2,4,6-Tribromophenol	78	19-122
Terphenyl-d14	71	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-4ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-09**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	87.6	20.2	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	560	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	560	U
2-Chloronaphthalene	280	U
2-Nitroaniline	560	U
Acenaphthylene	**280**	J
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	560	U
2,4-Dinitrophenol	560	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	560	U
Fluorene	**59**	J
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	560	U
4,6-Dinitro-2-methylphenol	560	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	560	U
Phenanthrene	**1100**	
Anthracene	**310**	
Di-n-butylphthalate	280	U
Fluoranthene	**2700**	
Pyrene	**2600**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	**170**	J
Benz[a]anthracene	**1100**	
Chrysene	**1300**	
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**1200**	
Benzo[k]fluoranthene	**670**	
Benzo[a]pyrene	**960**	
Indeno[1,2,3-cd]pyrene	**490**	
Dibenz[a,h]anthracene	**140**	J
Benzo[g,h,i]perylene	**480**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	60	25-121
Phenol-d5	64	24-113
Nitrobenzene-d5	58	23-120
2-Fluorobiphenyl	59	30-115
2,4,6-Tribromophenol	74	19-122
Terphenyl-d14	68	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-5SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-10**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	83.5	20.26	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	300	U
Phenol	300	U
2-Chlorophenol	300	U
1,3-Dichlorobenzene	300	U
1,4-Dichlorobenzene	300	U
1,2-Dichlorobenzene	300	U
Benzyl alcohol	3000	U
bis(2-chloroisopropyl)ether	300	U
2-Methylphenol	300	U
Hexachloroethane	300	U
N-Nitroso-di-n-propylamine	300	U
4-Methylphenol	300	U
Nitrobenzene	300	U
Isophorone	300	U
2-Nitrophenol	300	U
2,4-Dimethylphenol	300	U
Benzoic acid	590	U
bis(2-Chloroethoxy)methane	300	U
2,4-Dichlorophenol	300	U
1,2,4-Trichlorobenzene	300	U
Naphthalene	300	U
4-Chloroaniline	300	U
Hexachlorobutadiene	300	U
4-Chloro-3-methylphenol	300	U
2-Methylnaphthalene	300	U
Hexachlorocyclopentadiene	300	U
2,4,6-Trichlorophenol	300	U
2,4,5-Trichlorophenol	590	U
2-Chloronaphthalene	300	U
2-Nitroaniline	590	U
Acenaphthylene	**190**	J
Dimethylphthalate	300	U
2,6-Dinitrotoluene	300	U
Acenaphthene	**90**	J

Parameter	Result	
3-Nitroaniline	590	U
2,4-Dinitrophenol	590	U
Dibenzofuran	300	U
2,4-Dinitrotoluene	300	U
4-Nitrophenol	590	U
Fluorene	**98**	J
4-Chlorophenyl-phenylether	300	U
Diethylphthalate	300	U
4-Nitroaniline	590	U
4,6-Dinitro-2-methylphenol	590	U
n-Nitrosodiphenylamine	300	U
4-Bromophenyl-phenylether	300	U
Hexachlorobenzene	300	U
Pentachlorophenol	590	U
Phenanthrene	**1500**	
Anthracene	**460**	
Di-n-butylphthalate	300	U
Fluoranthene	**6100**	
Pyrene	**5800**	
Butylbenzylphthalate	300	U
3,3'-Dichlorobenzidine	300	U
Carbazole	**170**	J
Benz[a]anthracene	**2800**	
Chrysene	**3000**	
bis(2-Ethylhexyl)phthalate	300	U
Di-n-octylphthalate	300	U
Benzo[b]fluoranthene	**3200**	
Benzo[k]fluoranthene	**1500**	
Benzo[a]pyrene	**2600**	
Indeno[1,2,3-cd]pyrene	**1100**	
Dibenz[a,h]anthracene	**290**	J
Benzo[g,h,i]perylene	**1000**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	69	25-121
Phenol-d5	74	24-113
Nitrobenzene-d5	66	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	82	19-122
Terphenyl-d14	76	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-5ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-11**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	78.5	20.26	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	310	U
Phenol	310	U
2-Chlorophenol	310	U
1,3-Dichlorobenzene	310	U
1,4-Dichlorobenzene	310	U
1,2-Dichlorobenzene	310	U
Benzyl alcohol	3100	U
bis(2-chloroisopropyl)ether	310	U
2-Methylphenol	310	U
Hexachloroethane	310	U
N-Nitroso-di-n-propylamine	310	U
4-Methylphenol	310	U
Nitrobenzene	310	U
Isophorone	310	U
2-Nitrophenol	310	U
2,4-Dimethylphenol	310	U
Benzoic acid	630	U
bis(2-Chloroethoxy)methane	310	U
2,4-Dichlorophenol	310	U
1,2,4-Trichlorobenzene	310	U
Naphthalene	310	U
4-Chloroaniline	310	U
Hexachlorobutadiene	310	U
4-Chloro-3-methylphenol	310	U
2-Methylnaphthalene	310	U
Hexachlorocyclopentadiene	310	U
2,4,6-Trichlorophenol	310	U
2,4,5-Trichlorophenol	630	U
2-Chloronaphthalene	310	U
2-Nitroaniline	630	U
Acenaphthylene	310	U
Dimethylphthalate	310	U
2,6-Dinitrotoluene	310	U
Acenaphthene	310	U

Parameter	Result	
3-Nitroaniline	630	U
2,4-Dinitrophenol	630	U
Dibenzofuran	310	U
2,4-Dinitrotoluene	310	U
4-Nitrophenol	630	U
Fluorene	310	U
4-Chlorophenyl-phenylether	310	U
Diethylphthalate	310	U
4-Nitroaniline	630	U
4,6-Dinitro-2-methylphenol	630	U
n-Nitrosodiphenylamine	310	U
4-Bromophenyl-phenylether	310	U
Hexachlorobenzene	310	U
Pentachlorophenol	630	U
Phenanthrene	**63**	J
Anthracene	310	U
Di-n-butylphthalate	310	U
Fluoranthene	**180**	J
Pyrene	**190**	J
Butylbenzylphthalate	310	U
3,3'-Dichlorobenzidine	310	U
Carbazole	310	U
Benz[a]anthracene	**92**	J
Chrysene	**120**	J
bis(2-Ethylhexyl)phthalate	310	U
Di-n-octylphthalate	310	U
Benzo[b]fluoranthene	**140**	J
Benzo[k]fluoranthene	**85**	J
Benzo[a]pyrene	**120**	J
Indeno[1,2,3-cd]pyrene	**63**	J
Dibenz[a,h]anthracene	310	U
Benzo[g,h,i]perylene	**67**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	74	25-121
Phenol-d5	77	24-113
Nitrobenzene-d5	67	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	88	19-122
Terphenyl-d14	78	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-6SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-12**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	77.6	20.25	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	320	U
Phenol	320	U
2-Chlorophenol	320	U
1,3-Dichlorobenzene	320	U
1,4-Dichlorobenzene	320	U
1,2-Dichlorobenzene	320	U
Benzyl alcohol	3200	U
bis(2-chloroisopropyl)ether	320	U
2-Methylphenol	320	U
Hexachloroethane	320	U
N-Nitroso-di-n-propylamine	320	U
4-Methylphenol	320	U
Nitrobenzene	320	U
Isophorone	320	U
2-Nitrophenol	320	U
2,4-Dimethylphenol	320	U
Benzoic acid	71	J
bis(2-Chloroethoxy)methane	320	U
2,4-Dichlorophenol	320	U
1,2,4-Trichlorobenzene	320	U
Naphthalene	320	U
4-Chloroaniline	320	U
Hexachlorobutadiene	320	U
4-Chloro-3-methylphenol	320	U
2-Methylnaphthalene	320	U
Hexachlorocyclopentadiene	320	U
2,4,6-Trichlorophenol	320	U
2,4,5-Trichlorophenol	640	U
2-Chloronaphthalene	320	U
2-Nitroaniline	640	U
Acenaphthylene	320	U
Dimethylphthalate	320	U
2,6-Dinitrotoluene	320	U
Acenaphthene	320	U

Parameter	Result	
3-Nitroaniline	640	U
2,4-Dinitrophenol	640	U
Dibenzofuran	320	U
2,4-Dinitrotoluene	320	U
4-Nitrophenol	640	U
Fluorene	320	U
4-Chlorophenyl-phenylether	320	U
Diethylphthalate	320	U
4-Nitroaniline	640	U
4,6-Dinitro-2-methylphenol	640	U
n-Nitrosodiphenylamine	320	U
4-Bromophenyl-phenylether	320	U
Hexachlorobenzene	320	U
Pentachlorophenol	640	U
Phenanthrene	320	U
Anthracene	320	U
Di-n-butylphthalate	320	U
Fluoranthene	320	U
Pyrene	320	U
Butylbenzylphthalate	320	U
3,3'-Dichlorobenzidine	320	U
Carbazole	320	U
Benz[a]anthracene	320	U
Chrysene	320	U
bis(2-Ethylhexyl)phthalate	320	U
Di-n-octylphthalate	320	U
Benzo[b]fluoranthene	320	U
Benzo[k]fluoranthene	320	U
Benzo[a]pyrene	320	U
Indeno[1,2,3-cd]pyrene	320	U
Dibenz[a,h]anthracene	320	U
Benzo[g,h,i]perylene	320	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	68	25-121
Phenol-d5	71	24-113
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	67	30-115
2,4,6-Tribromophenol	85	19-122
Terphenyl-d14	77	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-6SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-13**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	71.5	20.21	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	350	U
Phenol	350	U
2-Chlorophenol	350	U
1,3-Dichlorobenzene	350	U
1,4-Dichlorobenzene	350	U
1,2-Dichlorobenzene	350	U
Benzyl alcohol	3500	U
bis(2-chloroisopropyl)ether	350	U
2-Methylphenol	350	U
Hexachloroethane	350	U
N-Nitroso-di-n-propylamine	350	U
4-Methylphenol	350	U
Nitrobenzene	350	U
Isophorone	350	U
2-Nitrophenol	350	U
2,4-Dimethylphenol	350	U
Benzoic acid	690	U
bis(2-Chloroethoxy)methane	350	U
2,4-Dichlorophenol	350	U
1,2,4-Trichlorobenzene	350	U
Naphthalene	350	U
4-Chloroaniline	350	U
Hexachlorobutadiene	350	U
4-Chloro-3-methylphenol	350	U
2-Methylnaphthalene	350	U
Hexachlorocyclopentadiene	350	U
2,4,6-Trichlorophenol	350	U
2,4,5-Trichlorophenol	690	U
2-Chloronaphthalene	350	U
2-Nitroaniline	690	U
Acenaphthylene	350	U
Dimethylphthalate	350	U
2,6-Dinitrotoluene	350	U
Acenaphthene	350	U

Parameter	Result	
3-Nitroaniline	690	U
2,4-Dinitrophenol	690	U
Dibenzofuran	350	U
2,4-Dinitrotoluene	350	U
4-Nitrophenol	690	U
Fluorene	350	U
4-Chlorophenyl-phenylether	350	U
Diethylphthalate	350	U
4-Nitroaniline	690	U
4,6-Dinitro-2-methylphenol	690	U
n-Nitrosodiphenylamine	350	U
4-Bromophenyl-phenylether	350	U
Hexachlorobenzene	350	U
Pentachlorophenol	690	U
Phenanthrene	350	U
Anthracene	350	U
Di-n-butylphthalate	350	U
Fluoranthene	**120**	J
Pyrene	**120**	J
Butylbenzylphthalate	350	U
3,3'-Dichlorobenzidine	350	U
Carbazole	350	U
Benz[a]anthracene	350	U
Chrysene	**76**	J
bis(2-Ethylhexyl)phthalate	350	U
Di-n-octylphthalate	350	U
Benzo[b]fluoranthene	**63**	J
Benzo[k]fluoranthene	**69**	J
Benzo[a]pyrene	350	U
Indeno[1,2,3-cd]pyrene	350	U
Dibenz[a,h]anthracene	350	U
Benzo[g,h,i]perylene	350	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	57	25-121
Phenol-d5	60	24-113
Nitrobenzene-d5	54	23-120
2-Fluorobiphenyl	55	30-115
2,4,6-Tribromophenol	66	19-122
Terphenyl-d14	61	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-7SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-14**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	86.1	20.27	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	290	U
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	290	U
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	290	U
2-Nitroaniline	570	U
Acenaphthylene	**170**	J
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	290	U

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	570	U
Fluorene	290	U
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	570	U
Phenanthrene	**350**	
Anthracene	**130**	J
Di-n-butylphthalate	290	U
Fluoranthene	**900**	
Pyrene	**980**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	**52**	
Benz[a]anthracene	**440**	
Chrysene	**520**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**570**	
Benzo[k]fluoranthene	**350**	
Benzo[a]pyrene	**460**	
Indeno[1,2,3-cd]pyrene	**190**	J
Dibenz[a,h]anthracene	**61**	J
Benzo[g,h,i]perylene	**170**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	68	25-121
Phenol-d5	72	24-113
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	86	19-122
Terphenyl-d14	79	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-7WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-15**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	86	20.23	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	580	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	**260**	J
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	**260**	J
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	580	U
2-Chloronaphthalene	290	U
2-Nitroaniline	580	U
Acenaphthylene	**1600**	
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	**470**	

Parameter	Result	
3-Nitroaniline	580	U
2,4-Dinitrophenol	580	U
Dibenzofuran	**180**	J
2,4-Dinitrotoluene	290	U
4-Nitrophenol	580	U
Fluorene	**500**	
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	580	U
4,6-Dinitro-2-methylphenol	580	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	580	U
Phenanthrene	**4300**	
Anthracene	**1700**	
Di-n-butylphthalate	290	U
Fluoranthene	**11000**	E
Pyrene	**12000**	E
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	**490**	
Benz[a]anthracene	**6000**	
Chrysene	**5400**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**6000**	
Benzo[k]fluoranthene	**3300**	
Benzo[a]pyrene	**4300**	
Indeno[1,2,3-cd]pyrene	**1200**	
Dibenz[a,h]anthracene	**380**	
Benzo[g,h,i]perylene	**980**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	65	25-121
Phenol-d5	69	24-113
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	78	19-122
Terphenyl-d14	71	18-137

E - Estimated value, above quantitation limit.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-7WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-15E**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	86	20.23	1	2	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	580	U
Phenol	580	U
2-Chlorophenol	580	U
1,3-Dichlorobenzene	580	U
1,4-Dichlorobenzene	580	U
1,2-Dichlorobenzene	580	U
Benzyl alcohol	5700	U
bis(2-chloroisopropyl)ether	580	U
2-Methylphenol	580	U
Hexachloroethane	580	U
N-Nitroso-di-n-propylamine	580	U
4-Methylphenol	580	U
Nitrobenzene	580	U
Isophorone	580	U
2-Nitrophenol	580	U
2,4-Dimethylphenol	580	U
Benzoic acid	1200	U
bis(2-Chloroethoxy)methane	580	U
2,4-Dichlorophenol	580	U
1,2,4-Trichlorobenzene	580	U
Naphthalene	**290**	J
4-Chloroaniline	580	U
Hexachlorobutadiene	580	U
4-Chloro-3-methylphenol	580	U
2-Methylnaphthalene	**280**	J
Hexachlorocyclopentadiene	580	U
2,4,6-Trichlorophenol	580	U
2,4,5-Trichlorophenol	1200	U
2-Chloronaphthalene	580	U
2-Nitroaniline	1200	U
Acenaphthylene	**1700**	
Dimethylphthalate	580	U
2,6-Dinitrotoluene	580	U
Acenaphthene	**500**	J

Parameter	Result	
3-Nitroaniline	1200	U
2,4-Dinitrophenol	1200	U
Dibenzofuran	**180**	J
2,4-Dinitrotoluene	580	U
4-Nitrophenol	1200	U
Fluorene	**560**	J
4-Chlorophenyl-phenylether	580	U
Diethylphthalate	580	U
4-Nitroaniline	1200	U
4,6-Dinitro-2-methylphenol	1200	U
n-Nitrosodiphenylamine	580	U
4-Bromophenyl-phenylether	580	U
Hexachlorobenzene	580	U
Pentachlorophenol	1200	U
Phenanthrene	**4600**	
Anthracene	**1800**	
Di-n-butylphthalate	580	U
Fluoranthene	**12000**	
Pyrene	**12000**	
Butylbenzylphthalate	580	U
3,3'-Dichlorobenzidine	580	U
Carbazole	**510**	J
Benz[a]anthracene	**5900**	
Chrysene	**5900**	
bis(2-Ethylhexyl)phthalate	580	U
Di-n-octylphthalate	580	U
Benzo[b]fluoranthene	**5800**	
Benzo[k]fluoranthene	**3300**	
Benzo[a]pyrene	**4500**	
Indeno[1,2,3-cd]pyrene	**1500**	
Dibenz[a,h]anthracene	**460**	J
Benzo[g,h,i]perylene	**1200**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	68	25-121
Phenol-d5	75	24-113
Nitrobenzene-d5	64	23-120
2-Fluorobiphenyl	71	30-115
2,4,6-Tribromophenol	81	19-122
Terphenyl-d14	73	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-8SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-16**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	84.8	20.3	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	580	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	290	U
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	290	U
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	580	U
2-Chloronaphthalene	290	U
2-Nitroaniline	580	U
Acenaphthylene	**160**	J
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	290	U

Parameter	Result	
3-Nitroaniline	580	U
2,4-Dinitrophenol	580	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	580	U
Fluorene	290	U
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	580	U
4,6-Dinitro-2-methylphenol	580	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	580	U
Phenanthrene	**480**	
Anthracene	**160**	J
Di-n-butylphthalate	290	U
Fluoranthene	**1100**	
Pyrene	**1100**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	**63**	J
Benz[a]anthracene	**520**	
Chrysene	**610**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**690**	
Benzo[k]fluoranthene	**460**	
Benzo[a]pyrene	**530**	
Indeno[1,2,3-cd]pyrene	**170**	J
Dibenz[a,h]anthracene	**56**	J
Benzo[g,h,i]perylene	**150**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	71	25-121
Phenol-d5	76	24-113
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	84	19-122
Terphenyl-d14	81	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-8WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-17**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	88	20.25	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	2800	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	560	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	560	U
2-Chloronaphthalene	280	U
2-Nitroaniline	560	U
Acenaphthylene	**110**	J
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	560	U
2,4-Dinitrophenol	560	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	560	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	560	U
4,6-Dinitro-2-methylphenol	560	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	560	U
Phenanthrene	**460**	
Anthracene	**120**	J
Di-n-butylphthalate	280	U
Fluoranthene	**1900**	
Pyrene	**1500**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	**140**	J
Benz[a]anthracene	**320**	
Chrysene	**830**	
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**540**	
Benzo[k]fluoranthene	**390**	
Benzo[a]pyrene	**300**	
Indeno[1,2,3-cd]pyrene	**190**	J
Dibenz[a,h]anthracene	280	U
Benzo[g,h,i]perylene	**200**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	89	25-121
Phenol-d5	93	24-113
Nitrobenzene-d5	82	23-120
2-Fluorobiphenyl	82	30-115
2,4,6-Tribromophenol	93	19-122
Terphenyl-d14	85	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-9SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-18**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	83.5	20.21	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	300	U
Phenol	300	U
2-Chlorophenol	300	U
1,3-Dichlorobenzene	300	U
1,4-Dichlorobenzene	300	U
1,2-Dichlorobenzene	300	U
Benzyl alcohol	3000	U
bis(2-chloroisopropyl)ether	300	U
2-Methylphenol	300	U
Hexachloroethane	300	U
N-Nitroso-di-n-propylamine	300	U
4-Methylphenol	300	U
Nitrobenzene	300	U
Isophorone	300	U
2-Nitrophenol	300	U
2,4-Dimethylphenol	300	U
Benzoic acid	590	U
bis(2-Chloroethoxy)methane	300	U
2,4-Dichlorophenol	300	U
1,2,4-Trichlorobenzene	300	U
Naphthalene	300	U
4-Chloroaniline	300	U
Hexachlorobutadiene	300	U
4-Chloro-3-methylphenol	300	U
2-Methylnaphthalene	300	U
Hexachlorocyclopentadiene	300	U
2,4,6-Trichlorophenol	300	U
2,4,5-Trichlorophenol	590	U
2-Chloronaphthalene	300	U
2-Nitroaniline	590	U
Acenaphthylene	300	U
Dimethylphthalate	300	U
2,6-Dinitrotoluene	300	U
Acenaphthene	300	U

Parameter	Result	
3-Nitroaniline	590	U
2,4-Dinitrophenol	590	U
Dibenzofuran	300	U
2,4-Dinitrotoluene	300	U
4-Nitrophenol	590	U
Fluorene	300	U
4-Chlorophenyl-phenylether	300	U
Diethylphthalate	300	U
4-Nitroaniline	590	U
4,6-Dinitro-2-methylphenol	590	U
n-Nitrosodiphenylamine	300	U
4-Bromophenyl-phenylether	300	U
Hexachlorobenzene	300	U
Pentachlorophenol	590	U
Phenanthrene	300	U
Anthracene	300	U
Di-n-butylphthalate	300	U
Fluoranthene	300	U
Pyrene	300	U
Butylbenzylphthalate	300	U
3,3'-Dichlorobenzidine	300	U
Carbazole	300	U
Benz[a]anthracene	300	U
Chrysene	300	U
bis(2-Ethylhexyl)phthalate	300	U
Di-n-octylphthalate	300	U
Benzo[b]fluoranthene	300	U
Benzo[k]fluoranthene	300	U
Benzo[a]pyrene	300	U
Indeno[1,2,3-cd]pyrene	300	U
Dibenz[a,h]anthracene	300	U
Benzo[g,h,i]perylene	300	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	79	25-121
Phenol-d5	84	24-113
Nitrobenzene-d5	77	23-120
2-Fluorobiphenyl	79	30-115
2,4,6-Tribromophenol	98	19-122
Terphenyl-d14	82	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-9WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-19**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	81.2	20.28	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	300	U
Phenol	300	U
2-Chlorophenol	300	U
1,3-Dichlorobenzene	300	U
1,4-Dichlorobenzene	300	U
1,2-Dichlorobenzene	300	U
Benzyl alcohol	3000	U
bis(2-chloroisopropyl)ether	300	U
2-Methylphenol	300	U
Hexachloroethane	300	U
N-Nitroso-di-n-propylamine	300	U
4-Methylphenol	300	U
Nitrobenzene	300	U
Isophorone	300	U
2-Nitrophenol	300	U
2,4-Dimethylphenol	300	U
Benzoic acid	610	U
bis(2-Chloroethoxy)methane	300	U
2,4-Dichlorophenol	300	U
1,2,4-Trichlorobenzene	300	U
Naphthalene	300	U
4-Chloroaniline	300	U
Hexachlorobutadiene	300	U
4-Chloro-3-methylphenol	300	U
2-Methylnaphthalene	300	U
Hexachlorocyclopentadiene	300	U
2,4,6-Trichlorophenol	300	U
2,4,5-Trichlorophenol	610	U
2-Chloronaphthalene	300	U
2-Nitroaniline	610	U
Acenaphthylene	300	U
Dimethylphthalate	300	U
2,6-Dinitrotoluene	300	U
Acenaphthene	300	U

Parameter	Result	
3-Nitroaniline	610	U
2,4-Dinitrophenol	610	U
Dibenzofuran	300	U
2,4-Dinitrotoluene	300	U
4-Nitrophenol	610	U
Fluorene	300	U
4-Chlorophenyl-phenylether	300	U
Diethylphthalate	300	U
4-Nitroaniline	610	U
4,6-Dinitro-2-methylphenol	610	U
n-Nitrosodiphenylamine	300	U
4-Bromophenyl-phenylether	300	U
Hexachlorobenzene	300	U
Pentachlorophenol	610	U
Phenanthrene	**74**	J
Anthracene	300	U
Di-n-butylphthalate	300	U
Fluoranthene	**220**	J
Pyrene	**230**	J
Butylbenzylphthalate	300	U
3,3'-Dichlorobenzidine	300	U
Carbazole	300	U
Benz[a]anthracene	**110**	J
Chrysene	**150**	J
bis(2-Ethylhexyl)phthalate	300	U
Di-n-octylphthalate	300	U
Benzo[b]fluoranthene	**140**	J
Benzo[k]fluoranthene	**100**	J
Benzo[a]pyrene	**100**	J
Indeno[1,2,3-cd]pyrene	**66**	J
Dibenz[a,h]anthracene	300	U
Benzo[g,h,i]perylene	**65**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	72	25-121
Phenol-d5	76	24-113
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	84	19-122
Terphenyl-d14	72	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-10SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-20**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	72.6	20.19	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	340	U
Phenol	340	U
2-Chlorophenol	340	U
1,3-Dichlorobenzene	340	U
1,4-Dichlorobenzene	340	U
1,2-Dichlorobenzene	340	U
Benzyl alcohol	3400	U
bis(2-chloroisopropyl)ether	340	U
2-Methylphenol	340	U
Hexachloroethane	340	U
N-Nitroso-di-n-propylamine	340	U
4-Methylphenol	340	U
Nitrobenzene	340	U
Isophorone	340	U
2-Nitrophenol	340	U
2,4-Dimethylphenol	340	U
Benzoic acid	680	U
bis(2-Chloroethoxy)methane	340	U
2,4-Dichlorophenol	340	U
1,2,4-Trichlorobenzene	340	U
Naphthalene	340	U
4-Chloroaniline	340	U
Hexachlorobutadiene	340	U
4-Chloro-3-methylphenol	340	U
2-Methylnaphthalene	340	U
Hexachlorocyclopentadiene	340	U
2,4,6-Trichlorophenol	340	U
2,4,5-Trichlorophenol	680	U
2-Chloronaphthalene	340	U
2-Nitroaniline	680	U
Acenaphthylene	340	U
Dimethylphthalate	340	U
2,6-Dinitrotoluene	340	U
Acenaphthene	340	U

Parameter	Result	
3-Nitroaniline	680	U
2,4-Dinitrophenol	680	U
Dibenzofuran	340	U
2,4-Dinitrotoluene	340	U
4-Nitrophenol	680	U
Fluorene	340	U
4-Chlorophenyl-phenylether	340	U
Diethylphthalate	340	U
4-Nitroaniline	680	U
4,6-Dinitro-2-methylphenol	680	U
n-Nitrosodiphenylamine	340	U
4-Bromophenyl-phenylether	340	U
Hexachlorobenzene	340	U
Pentachlorophenol	680	U
Phenanthrene	340	U
Anthracene	340	U
Di-n-butylphthalate	340	U
Fluoranthene	340	U
Pyrene	340	U
Butylbenzylphthalate	340	U
3,3'-Dichlorobenzidine	340	U
Carbazole	340	U
Benz[a]anthracene	340	U
Chrysene	340	U
bis(2-Ethylhexyl)phthalate	340	U
Di-n-octylphthalate	340	U
Benzo[b]fluoranthene	340	U
Benzo[k]fluoranthene	340	U
Benzo[a]pyrene	340	U
Indeno[1,2,3-cd]pyrene	340	U
Dibenz[a,h]anthracene	340	U
Benzo[g,h,i]perylene	340	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	79	25-121
Phenol-d5	81	24-113
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	74	30-115
2,4,6-Tribromophenol	95	19-122
Terphenyl-d14	80	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-10WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-21**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	86.3	20.19	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
Benzyl alcohol	2900	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
Benzoic acid	570	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	**680**	
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	**160**	J
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	570	U
2-Chloronaphthalene	290	U
2-Nitroaniline	570	U
Acenaphthylene	**120**	J
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	**480**	

Parameter	Result	
3-Nitroaniline	570	U
2,4-Dinitrophenol	570	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	570	U
Fluorene	**460**	
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	570	U
4,6-Dinitro-2-methylphenol	570	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	570	U
Phenanthrene	**2700**	
Anthracene	**720**	
Di-n-butylphthalate	290	U
Fluoranthene	**2900**	
Pyrene	**2600**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	**460**	
Benz[a]anthracene	**1300**	
Chrysene	**1300**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**1200**	
Benzo[k]fluoranthene	**810**	
Benzo[a]pyrene	**1100**	
Indeno[1,2,3-cd]pyrene	**480**	
Dibenz[a,h]anthracene	**140**	J
Benzo[g,h,i]perylene	**400**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	76	25-121
Phenol-d5	79	24-113
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	87	19-122
Terphenyl-d14	78	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-11SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-22**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	68.2	20.19	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	360	U
Phenol	360	U
2-Chlorophenol	360	U
1,3-Dichlorobenzene	360	U
1,4-Dichlorobenzene	360	U
1,2-Dichlorobenzene	360	U
Benzyl alcohol	3600	U
bis(2-chloroisopropyl)ether	360	U
2-Methylphenol	360	U
Hexachloroethane	360	U
N-Nitroso-di-n-propylamine	360	U
4-Methylphenol	360	U
Nitrobenzene	360	U
Isophorone	360	U
2-Nitrophenol	360	U
2,4-Dimethylphenol	360	U
Benzoic acid	**100**	J
bis(2-Chloroethoxy)methane	360	U
2,4-Dichlorophenol	360	U
1,2,4-Trichlorobenzene	360	U
Naphthalene	360	U
4-Chloroaniline	360	U
Hexachlorobutadiene	360	U
4-Chloro-3-methylphenol	360	U
2-Methylnaphthalene	360	U
Hexachlorocyclopentadiene	360	U
2,4,6-Trichlorophenol	360	U
2,4,5-Trichlorophenol	730	U
2-Chloronaphthalene	360	U
2-Nitroaniline	730	U
Acenaphthylene	360	U
Dimethylphthalate	360	U
2,6-Dinitrotoluene	360	U
Acenaphthene	360	U

Parameter	Result	
3-Nitroaniline	730	U
2,4-Dinitrophenol	730	U
Dibenzofuran	360	U
2,4-Dinitrotoluene	360	U
4-Nitrophenol	730	U
Fluorene	360	U
4-Chlorophenyl-phenylether	360	U
Diethylphthalate	360	U
4-Nitroaniline	730	U
4,6-Dinitro-2-methylphenol	730	U
n-Nitrosodiphenylamine	360	U
4-Bromophenyl-phenylether	360	U
Hexachlorobenzene	360	U
Pentachlorophenol	730	U
Phenanthrene	**89**	J
Anthracene	360	U
Di-n-butylphthalate	360	U
Fluoranthene	**110**	J
Pyrene	**94**	J
Butylbenzylphthalate	360	U
3,3'-Dichlorobenzidine	360	U
Carbazole	360	U
Benz[a]anthracene	360	U
Chrysene	360	U
bis(2-Ethylhexyl)phthalate	360	U
Di-n-octylphthalate	360	U
Benzo[b]fluoranthene	360	U
Benzo[k]fluoranthene	360	U
Benzo[a]pyrene	360	U
Indeno[1,2,3-cd]pyrene	360	U
Dibenz[a,h]anthracene	360	U
Benzo[g,h,i]perylene	360	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	65	25-121
Phenol-d5	69	24-113
Nitrobenzene-d5	61	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	79	19-122
Terphenyl-d14	72	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-11SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-23**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	03/15/01	74.9	20.26	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	330	U
Phenol	330	U
2-Chlorophenol	330	U
1,3-Dichlorobenzene	330	U
1,4-Dichlorobenzene	330	U
1,2-Dichlorobenzene	330	U
Benzyl alcohol	3300	U
bis(2-chloroisopropyl)ether	330	U
2-Methylphenol	330	U
Hexachloroethane	330	U
N-Nitroso-di-n-propylamine	330	U
4-Methylphenol	330	U
Nitrobenzene	330	U
Isophorone	330	U
2-Nitrophenol	330	U
2,4-Dimethylphenol	330	U
Benzoic acid	660	U
bis(2-Chloroethoxy)methane	330	U
2,4-Dichlorophenol	330	U
1,2,4-Trichlorobenzene	330	U
Naphthalene	**270**	J
4-Chloroaniline	330	U
Hexachlorobutadiene	330	U
4-Chloro-3-methylphenol	330	U
2-Methylnaphthalene	**69**	J
Hexachlorocyclopentadiene	330	U
2,4,6-Trichlorophenol	330	U
2,4,5-Trichlorophenol	660	U
2-Chloronaphthalene	330	U
2-Nitroaniline	660	U
Acenaphthylene	330	U
Dimethylphthalate	330	U
2,6-Dinitrotoluene	330	U
Acenaphthene	**210**	J

Parameter	Result	
3-Nitroaniline	660	U
2,4-Dinitrophenol	660	U
Dibenzofuran	**150**	J
2,4-Dinitrotoluene	330	U
4-Nitrophenol	660	U
Fluorene	**220**	J
4-Chlorophenyl-phenylether	330	U
Diethylphthalate	330	U
4-Nitroaniline	660	U
4,6-Dinitro-2-methylphenol	660	U
n-Nitrosodiphenylamine	330	U
4-Bromophenyl-phenylether	330	U
Hexachlorobenzene	330	U
Pentachlorophenol	660	U
Phenanthrene	**1300**	
Anthracene	**340**	
Di-n-butylphthalate	330	U
Fluoranthene	**1300**	
Pyrene	**1000**	
Butylbenzylphthalate	330	U
3,3'-Dichlorobenzidine	330	U
Carbazole	**200**	J
Benz[a]anthracene	**470**	
Chrysene	**480**	
bis(2-Ethylhexyl)phthalate	330	U
Di-n-octylphthalate	330	U
Benzo[b]fluoranthene	**430**	
Benzo[k]fluoranthene	**370**	
Benzo[a]pyrene	**420**	
Indeno[1,2,3-cd]pyrene	**150**	J
Dibenz[a,h]anthracene	330	U
Benzo[g,h,i]perylene	**130**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	84	25-121
Phenol-d5	87	24-113
Nitrobenzene-d5	82	23-120
2-Fluorobiphenyl	78	30-115
2,4,6-Tribromophenol	100	19-122
Terphenyl-d14	89	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **SS0314B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/14/01	03/14/01	100	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
Benzyl alcohol	2500	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
Benzoic acid	500	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U

Parameter	Result	
3-Nitroaniline	500	U
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	66	25-121
Phenol-d5	65	24-113
Nitrobenzene-d5	64	23-120
2-Fluorobiphenyl	64	30-115
2,4,6-Tribromophenol	68	19-122
Terphenyl-d14	68	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **SS0314B2**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/14/01	03/14/01	100	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
Benzyl alcohol	2500	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
Benzoic acid	500	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U

Parameter	Result	
3-Nitroaniline	500	U
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	65	25-121
Phenol-d5	67	24-113
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	62	30-115
2,4,6-Tribromophenol	67	19-122
Terphenyl-d14	68	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **SS0314L1**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/14/01	100	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	6100	61	26-90
2-Chlorophenol	6500	65	25-102
1,4-Dichlorobenzene	2900	58	28-104
N-Nitroso-di-n-propylamine	3200	63	41-126
1,2,4-Trichlorobenzene	3100	61	38-107
4-Chloro-3-methylphenol	7300	73	26-103
Acenaphthene	3200	63	31-137
2,4-Dinitrotoluene	3200	65	28-89
4-Nitrophenol	7100	71	11-114
Pentachlorophenol	6100	61	17-109
Pyrene	3300	67	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	64	25-121
Phenol-d5	65	24-113
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	62	30-115
2,4,6-Tribromophenol	71	19-122
Terphenyl-d14	66	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **SS0314L2**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/14/01	100	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	5700	57	26-90
2-Chlorophenol	6000	60	25-102
1,4-Dichlorobenzene	2700	53	28-104
N-Nitroso-di-n-propylamine	2900	59	41-126
1,2,4-Trichlorobenzene	2900	58	38-107
4-Chloro-3-methylphenol	6600	66	26-103
Acenaphthene	2800	56	31-137
2,4-Dinitrotoluene	3000	59	28-89
4-Nitrophenol	6300	63	11-114
Pentachlorophenol	5600	56	17-109
Pyrene	3000	60	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	60	25-121
Phenol-d5	61	24-113
Nitrobenzene-d5	59	23-120
2-Fluorobiphenyl	56	30-115
2,4,6-Tribromophenol	64	19-122
Terphenyl-d14	61	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-1NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **See Below**
Associated Blank: **SS0314B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
03/13/01	03/13/01	03/14/01	93.4	CLM

Lab ID:	45563-02		45563-02		45563-02				
Parameter	**Sample Conc.**		**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Phenol	260	U	7100	67	6800	64	4	35	26-90
2-Chlorophenol	260	U	7800	73	7400	70	5	50	25-102
1,4-Dichlorobenzene	260	U	3200	61	3100	58	5	27	28-104
N-Nitroso-di-n-propylamine	260	U	3700	69	3500	65	5	38	41-126
1,2,4-Trichlorobenzene	260	U	3600	67	3200	61	10	23	38-107
4-Chloro-3-methylphenol	260	U	8400	79	7800	74	7	33	26-103
Acenaphthene	260	U	3500	65	3300	63	4	19	31-137
2,4-Dinitrotoluene	260	U	3800	72	3600	67	7	47	28-89
4-Nitrophenol	530	U	8300	78	7700	72	8	50	11-114
Pentachlorophenol	530	U	7300	69	7100	67	4	47	17-109
Pyrene	260	U	3700	70	3400	64	9	36	35-142

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
2-Fluorophenol	70	67	25-121
Phenol-d5	70	68	24-113
Nitrobenzene-d5	66	63	23-120
2-Fluorobiphenyl	66	60	30-115
2,4,6-Tribromophenol	76	76	19-122
Terphenyl-d14	69	67	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-6SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **See Below**
Associated Blank: **SS0314B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
03/13/01	03/13/01	03/14/01	77.6	CLM

Lab ID:	45563-12		45563-12		45563-12				
Parameter	**Sample Conc.**		**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Phenol	320	U	8500	67	8400	66	1	35	26-90
2-Chlorophenol	320	U	9300	73	9400	74	1	50	25-102
1,4-Dichlorobenzene	320	U	3900	61	3900	61	1	27	28-104
N-Nitroso-di-n-propylamine	320	U	4400	68	4300	67	1	38	41-126
1,2,4-Trichlorobenzene	320	U	4300	67	4200	66	1	23	38-107
4-Chloro-3-methylphenol	320	U	11000	85	11000	86	1	33	26-103
Acenaphthene	320	U	4600	72	4400	70	3	19	31-137
2,4-Dinitrotoluene	320	U	4500	70	4300	68	3	47	28-89
4-Nitrophenol	640	U	12000	91	11000	85	7	50	11-114
Pentachlorophenol	640	U	11000	86	11000	84	3	47	17-109
Pyrene	320	U	4800	75	4700	74	1	36	35-142

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
2-Fluorophenol	70	69	25-121
Phenol-d5	71	72	24-113
Nitrobenzene-d5	65	68	23-120
2-Fluorobiphenyl	66	68	30-115
2,4,6-Tribromophenol	84	84	19-122
Terphenyl-d14	76	76	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-1SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-01**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	92.8	4.57	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.4	U	2-Hexanone	2.4	U
Chloromethane	2.4	U	Tetrachloroethene	2.4	U
Vinyl chloride	2.4	U	1,3-Dichloropropane	2.4	U
Bromomethane	2.4	U	Dibromochloromethane	2.4	U
Chloroethane	2.4	U	1,2-Dibromoethane	2.4	U
Trichlorofluoromethane	2.4	U	Chlorobenzene	2.4	U
Acetone	**24**	B	1,1,1,2-Tetrachloroethane	2.4	U
1,1-Dichloroethene	2.4	U	Ethylbenzene	2.4	U
Carbon disulfide	2.4	U	p/m-Xylene	4.7	U
Methylene chloride	**3.4**	JB	o-Xylene	2.4	U
Methyl tert-butyl ether (MTBE)	2.4	U	Styrene	2.4	U
trans-1,2-Dichloroethene	2.4	U	Bromoform	2.4	U
1,1-Dichloroethane	2.4	U	Isopropylbenzene	2.4	U
Vinyl acetate	2.4	U	1,1,2,2-Tetrachloroethane	2.4	U
2-Butanone (MEK)	2.4	U	Bromobenzene	2.4	U
cis-1,2-Dichloroethene	2.4	U	1,2,3-Trichloropropane	2.4	U
2,2-Dichloropropane	2.4	U	n-Propylbenzene	2.4	U
Chloroform	2.4	U	2-Chlorotoluene	2.4	U
1,1,1-Trichloroethane	2.4	U	1,3,5-Trimethylbenzene	2.4	U
1,1-Dichloropropene	2.4	U	4-Chlorotoluene	2.4	U
Carbon tetrachloride	2.4	U	tert-Butylbenzene	2.4	U
Benzene	2.4	U	1,2,4-Trimethylbenzene	2.4	U
1,2-Dichloroethane	2.4	U	sec-Butylbenzene	2.4	U
Trichloroethene	2.4	U	1,3-Dichlorobenzene	2.4	U
1,2-Dichloropropane	2.4	U	p-Isopropyltoluene	2.4	U
Dibromomethane	2.4	U	1,4-Dichlorobenzene	2.4	U
Bromodichloromethane	2.4	U	n-Butylbenzene	2.4	U
2-Chloroethylvinyl ether	2.4	U	1,2-Dichlorobenzene	2.4	U
Methyl isobutyl ketone (MIBK)	2.4	U	1,2-Dibromo-3-chloropropane	2.4	U
cis-1,3-Dichloropropene	2.4	U	1,2,4-Trichlorobenzene	2.4	U
Toluene	2.4	U	Hexachlorobutadiene	2.4	U
trans-1,3-Dichloropropene	2.4	U	Naphthalene	**1.2**	J
1,1,2-Trichloroethane	2.4	U	1,2,3-Trichlorobenzene	2.4	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	94	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	98	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-1NSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-02**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	93.4	4.92	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**21**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.4	U
Methylene chloride	**3.5**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	2.2	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	2.2	U	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	2.2	U	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	2.2	U
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	100	87-108
4-Bromofluorobenzene	97	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-2SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-03**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	95.1	5.17	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**20**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.1	U
Methylene chloride	**3.2**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	**4.6**	
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	84-108
Toluene-d8	100	87-108
4-Bromofluorobenzene	98	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-2ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-04**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	86.6	5.58	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	2.1	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	2.1	U	Chlorobenzene	2.1	U
Acetone	**13**	B	1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	4.1	U
Methylene chloride	**3.5**	JB	o-Xylene	2.1	U
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	2.1	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	2.1	U	Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	2.1	U	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	2.1	U
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	105	84-108
Toluene-d8	100	87-108
4-Bromofluorobenzene	96	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-2WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-05**
Associated Blank: **B2031404**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/15/01	78.2	4.43	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.9	U	2-Hexanone	2.9	U
Chloromethane	2.9	U	Tetrachloroethene	2.9	U
Vinyl chloride	2.9	U	1,3-Dichloropropane	2.9	U
Bromomethane	2.9	U	Dibromochloromethane	2.9	U
Chloroethane	2.9	U	1,2-Dibromoethane	2.9	U
Trichlorofluoromethane	2.9	U	Chlorobenzene	2.9	U
Acetone	**41**	B	1,1,1,2-Tetrachloroethane	2.9	U
1,1-Dichloroethene	2.9	U	Ethylbenzene	2.9	U
Carbon disulfide	2.9	U	p/m-Xylene	5.8	U
Methylene chloride	**4.9**	JB	o-Xylene	2.9	U
Methyl tert-butyl ether (MTBE)	2.9	U	Styrene	2.9	U
trans-1,2-Dichloroethene	2.9	U	Bromoform	2.9	U
1,1-Dichloroethane	2.9	U	Isopropylbenzene	2.9	U
Vinyl acetate	2.9	U	1,1,2,2-Tetrachloroethane	2.9	U
2-Butanone (MEK)	2.9	U	Bromobenzene	2.9	U
cis-1,2-Dichloroethene	2.9	U	1,2,3-Trichloropropane	2.9	U
2,2-Dichloropropane	2.9	U	n-Propylbenzene	2.9	U
Chloroform	2.9	U	2-Chlorotoluene	2.9	U
1,1,1-Trichloroethane	2.9	U	1,3,5-Trimethylbenzene	2.9	U
1,1-Dichloropropene	2.9	U	4-Chlorotoluene	2.9	U
Carbon tetrachloride	2.9	U	tert-Butylbenzene	2.9	U
Benzene	2.9	U	1,2,4-Trimethylbenzene	2.9	U
1,2-Dichloroethane	2.9	U	sec-Butylbenzene	2.9	U
Trichloroethene	2.9	U	1,3-Dichlorobenzene	2.9	U
1,2-Dichloropropane	2.9	U	p-Isopropyltoluene	2.9	U
Dibromomethane	2.9	U	1,4-Dichlorobenzene	2.9	U
Bromodichloromethane	2.9	U	n-Butylbenzene	2.9	U
2-Chloroethylvinyl ether	2.9	U	1,2-Dichlorobenzene	2.9	U
Methyl isobutyl ketone (MIBK)	2.9	U	1,2-Dibromo-3-chloropropane	2.9	U
cis-1,3-Dichloropropene	2.9	U	1,2,4-Trichlorobenzene	2.9	U
Toluene	2.9	U	Hexachlorobutadiene	2.9	U
trans-1,3-Dichloropropene	2.9	U	Naphthalene	2.9	U
1,1,2-Trichloroethane	2.9	U	1,2,3-Trichlorobenzene	2.9	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	84-108
Toluene-d8	96	87-108
4-Bromofluorobenzene	85	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-3SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-06**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	84.3	4.92	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.4	U	2-Hexanone	2.4	U
Chloromethane	2.4	U	Tetrachloroethene	2.4	U
Vinyl chloride	2.4	U	1,3-Dichloropropane	2.4	U
Bromomethane	2.4	U	Dibromochloromethane	2.4	U
Chloroethane	2.4	U	1,2-Dibromoethane	2.4	U
Trichlorofluoromethane	2.4	U	Chlorobenzene	2.4	U
Acetone	**25**	B	1,1,1,2-Tetrachloroethane	2.4	U
1,1-Dichloroethene	2.4	U	Ethylbenzene	2.4	U
Carbon disulfide	2.4	U	p/m-Xylene	4.8	U
Methylene chloride	**3.8**	JB	o-Xylene	2.4	U
Methyl tert-butyl ether (MTBE)	2.4	U	Styrene	2.4	U
trans-1,2-Dichloroethene	2.4	U	Bromoform	2.4	U
1,1-Dichloroethane	2.4	U	Isopropylbenzene	2.4	U
Vinyl acetate	2.4	U	1,1,2,2-Tetrachloroethane	2.4	U
2-Butanone (MEK)	2.4	U	Bromobenzene	2.4	U
cis-1,2-Dichloroethene	2.4	U	1,2,3-Trichloropropane	2.4	U
2,2-Dichloropropane	2.4	U	n-Propylbenzene	2.4	U
Chloroform	2.4	U	2-Chlorotoluene	2.4	U
1,1,1-Trichloroethane	2.4	U	1,3,5-Trimethylbenzene	2.4	U
1,1-Dichloropropene	2.4	U	4-Chlorotoluene	2.4	U
Carbon tetrachloride	2.4	U	tert-Butylbenzene	2.4	U
Benzene	2.4	U	1,2,4-Trimethylbenzene	2.4	U
1,2-Dichloroethane	2.4	U	sec-Butylbenzene	2.4	U
Trichloroethene	2.4	U	1,3-Dichlorobenzene	2.4	U
1,2-Dichloropropane	2.4	U	p-Isopropyltoluene	2.4	U
Dibromomethane	2.4	U	1,4-Dichlorobenzene	2.4	U
Bromodichloromethane	2.4	U	n-Butylbenzene	2.4	U
2-Chloroethylvinyl ether	2.4	U	1,2-Dichlorobenzene	2.4	U
Methyl isobutyl ketone (MIBK)	2.4	U	1,2-Dibromo-3-chloropropane	2.4	U
cis-1,3-Dichloropropene	2.4	U	1,2,4-Trichlorobenzene	2.4	U
Toluene	2.4	U	Hexachlorobutadiene	2.4	U
trans-1,3-Dichloropropene	2.4	U	Naphthalene	2.4	U
1,1,2-Trichloroethane	2.4	U	1,2,3-Trichlorobenzene	2.4	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	105	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	90	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-3ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-07**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	86.9	5.06	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**17**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.5	U
Methylene chloride	**3.7**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	2.3	U	Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	2.3	U
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	96	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-4SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-08**
Associated Blank: **B2031503**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/16/01	74.1	5.27	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.6	U	2-Hexanone	2.6	U
Chloromethane	2.6	U	Tetrachloroethene	2.6	U
Vinyl chloride	2.6	U	1,3-Dichloropropane	2.6	U
Bromomethane	2.6	U	Dibromochloromethane	2.6	U
Chloroethane	2.6	U	1,2-Dibromoethane	2.6	U
Trichlorofluoromethane	2.6	U	Chlorobenzene	2.6	U
Acetone	**60**	B	1,1,1,2-Tetrachloroethane	2.6	U
1,1-Dichloroethene	2.6	U	Ethylbenzene	2.6	U
Carbon disulfide	2.6	U	p/m-Xylene	5.1	U
Methylene chloride	**2.6**	JB	o-Xylene	2.6	U
Methyl tert-butyl ether (MTBE)	2.6	U	Styrene	2.6	U
trans-1,2-Dichloroethene	2.6	U	Bromoform	2.6	U
1,1-Dichloroethane	2.6	U	Isopropylbenzene	2.6	U
Vinyl acetate	2.6	U	1,1,2,2-Tetrachloroethane	2.6	U
2-Butanone (MEK)	2.6	U	Bromobenzene	2.6	U
cis-1,2-Dichloroethene	2.6	U	1,2,3-Trichloropropane	2.6	U
2,2-Dichloropropane	2.6	U	n-Propylbenzene	2.6	U
Chloroform	2.6	U	2-Chlorotoluene	2.6	U
1,1,1-Trichloroethane	2.6	U	1,3,5-Trimethylbenzene	2.6	U
1,1-Dichloropropene	2.6	U	4-Chlorotoluene	2.6	U
Carbon tetrachloride	2.6	U	tert-Butylbenzene	2.6	U
Benzene	2.6	U	1,2,4-Trimethylbenzene	2.6	U
1,2-Dichloroethane	2.6	U	sec-Butylbenzene	2.6	U
Trichloroethene	2.6	U	1,3-Dichlorobenzene	2.6	U
1,2-Dichloropropane	2.6	U	p-Isopropyltoluene	2.6	U
Dibromomethane	2.6	U	1,4-Dichlorobenzene	2.6	U
Bromodichloromethane	2.6	U	n-Butylbenzene	2.6	U
2-Chloroethylvinyl ether	2.6	U	1,2-Dichlorobenzene	2.6	U
Methyl isobutyl ketone (MIBK)	2.6	U	1,2-Dibromo-3-chloropropane	2.6	U
cis-1,3-Dichloropropene	2.6	U	1,2,4-Trichlorobenzene	2.6	U
Toluene	2.6	U	Hexachlorobutadiene	2.6	U
trans-1,3-Dichloropropene	2.6	U	Naphthalene	**1.4**	J
1,1,2-Trichloroethane	2.6	U	1,2,3-Trichlorobenzene	2.6	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	95	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-4ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-09**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	87.6	5.05	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	**1.3**	J	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**90**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.5	U
Methylene chloride	**3.3**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	**10**		Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	2.3	U
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	88	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-5SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-10**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	83.5	4.97	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.4	U	2-Hexanone	2.4	U
Chloromethane	2.4	U	Tetrachloroethene	2.4	U
Vinyl chloride	2.4	U	1,3-Dichloropropane	2.4	U
Bromomethane	2.4	U	Dibromochloromethane	2.4	U
Chloroethane	2.4	U	1,2-Dibromoethane	2.4	U
Trichlorofluoromethane	2.4	U	Chlorobenzene	2.4	U
Acetone	**42**	B	1,1,1,2-Tetrachloroethane	2.4	U
1,1-Dichloroethene	2.4	U	Ethylbenzene	2.4	U
Carbon disulfide	2.4	U	p/m-Xylene	4.8	U
Methylene chloride	**3.6**	JB	o-Xylene	2.4	U
Methyl tert-butyl ether (MTBE)	2.4	U	Styrene	2.4	U
trans-1,2-Dichloroethene	2.4	U	Bromoform	2.4	U
1,1-Dichloroethane	2.4	U	Isopropylbenzene	2.4	U
Vinyl acetate	2.4	U	1,1,2,2-Tetrachloroethane	2.4	U
2-Butanone (MEK)	2.4	U	Bromobenzene	2.4	U
cis-1,2-Dichloroethene	2.4	U	1,2,3-Trichloropropane	2.4	U
2,2-Dichloropropane	2.4	U	n-Propylbenzene	2.4	U
Chloroform	2.4	U	2-Chlorotoluene	2.4	U
1,1,1-Trichloroethane	2.4	U	1,3,5-Trimethylbenzene	2.4	U
1,1-Dichloropropene	2.4	U	4-Chlorotoluene	2.4	U
Carbon tetrachloride	2.4	U	tert-Butylbenzene	2.4	U
Benzene	2.4	U	1,2,4-Trimethylbenzene	2.4	U
1,2-Dichloroethane	2.4	U	sec-Butylbenzene	2.4	U
Trichloroethene	2.4	U	1,3-Dichlorobenzene	2.4	U
1,2-Dichloropropane	2.4	U	p-Isopropyltoluene	2.4	U
Dibromomethane	2.4	U	1,4-Dichlorobenzene	2.4	U
Bromodichloromethane	2.4	U	n-Butylbenzene	2.4	U
2-Chloroethylvinyl ether	2.4	U	1,2-Dichlorobenzene	2.4	U
Methyl isobutyl ketone (MIBK)	2.4	U	1,2-Dibromo-3-chloropropane	2.4	U
cis-1,3-Dichloropropene	2.4	U	1,2,4-Trichlorobenzene	2.4	U
Toluene	2.4	U	Hexachlorobutadiene	2.4	U
trans-1,3-Dichloropropene	2.4	U	Naphthalene	2.4	U
1,1,2-Trichloroethane	2.4	U	1,2,3-Trichlorobenzene	2.4	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	90	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-5ESW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-11**
Associated Blank: **B2031404**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/15/01	78.5	5.04	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.5	U	2-Hexanone	2.5	U
Chloromethane	2.5	U	Tetrachloroethene	2.5	U
Vinyl chloride	2.5	U	1,3-Dichloropropane	2.5	U
Bromomethane	2.5	U	Dibromochloromethane	2.5	U
Chloroethane	2.5	U	1,2-Dibromoethane	2.5	U
Trichlorofluoromethane	2.5	U	Chlorobenzene	2.5	U
Acetone	**41**	B	1,1,1,2-Tetrachloroethane	2.5	U
1,1-Dichloroethene	2.5	U	Ethylbenzene	2.5	U
Carbon disulfide	2.5	U	p/m-Xylene	5.1	U
Methylene chloride	**3.9**	JB	o-Xylene	2.5	U
Methyl tert-butyl ether (MTBE)	2.5	U	Styrene	2.5	U
trans-1,2-Dichloroethene	2.5	U	Bromoform	2.5	U
1,1-Dichloroethane	2.5	U	Isopropylbenzene	2.5	U
Vinyl acetate	2.5	U	1,1,2,2-Tetrachloroethane	2.5	U
2-Butanone (MEK)	2.5	U	Bromobenzene	2.5	U
cis-1,2-Dichloroethene	2.5	U	1,2,3-Trichloropropane	2.5	U
2,2-Dichloropropane	2.5	U	n-Propylbenzene	2.5	U
Chloroform	2.5	U	2-Chlorotoluene	2.5	U
1,1,1-Trichloroethane	2.5	U	1,3,5-Trimethylbenzene	2.5	U
1,1-Dichloropropene	2.5	U	4-Chlorotoluene	2.5	U
Carbon tetrachloride	2.5	U	tert-Butylbenzene	2.5	U
Benzene	2.5	U	1,2,4-Trimethylbenzene	2.5	U
1,2-Dichloroethane	2.5	U	sec-Butylbenzene	2.5	U
Trichloroethene	2.5	U	1,3-Dichlorobenzene	2.5	U
1,2-Dichloropropane	2.5	U	p-Isopropyltoluene	2.5	U
Dibromomethane	2.5	U	1,4-Dichlorobenzene	2.5	U
Bromodichloromethane	2.5	U	n-Butylbenzene	2.5	U
2-Chloroethylvinyl ether	2.5	U	1,2-Dichlorobenzene	2.5	U
Methyl isobutyl ketone (MIBK)	2.5	U	1,2-Dibromo-3-chloropropane	2.5	U
cis-1,3-Dichloropropene	2.5	U	1,2,4-Trichlorobenzene	2.5	U
Toluene	2.5	U	Hexachlorobutadiene	2.5	U
trans-1,3-Dichloropropene	2.5	U	Naphthalene	2.5	U
1,1,2-Trichloroethane	2.5	U	1,2,3-Trichlorobenzene	2.5	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	84-108
Toluene-d8	95	87-108
4-Bromofluorobenzene	86	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-6SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-12**
Associated Blank: **B2031404**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/15/01	77.6	4.93	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.6	U	2-Hexanone	2.6	U
Chloromethane	2.6	U	Tetrachloroethene	2.6	U
Vinyl chloride	2.6	U	1,3-Dichloropropane	2.6	U
Bromomethane	2.6	U	Dibromochloromethane	2.6	U
Chloroethane	2.6	U	1,2-Dibromoethane	2.6	U
Trichlorofluoromethane	2.6	U	Chlorobenzene	2.6	U
Acetone	**39**	B	1,1,1,2-Tetrachloroethane	2.6	U
1,1-Dichloroethene	2.6	U	Ethylbenzene	2.6	U
Carbon disulfide	2.6	U	p/m-Xylene	5.2	U
Methylene chloride	**4.1**	JB	o-Xylene	2.6	U
Methyl tert-butyl ether (MTBE)	2.6	U	Styrene	2.6	U
trans-1,2-Dichloroethene	2.6	U	Bromoform	2.6	U
1,1-Dichloroethane	2.6	U	Isopropylbenzene	2.6	U
Vinyl acetate	2.6	U	1,1,2,2-Tetrachloroethane	2.6	U
2-Butanone (MEK)	2.6	U	Bromobenzene	2.6	U
cis-1,2-Dichloroethene	2.6	U	1,2,3-Trichloropropane	2.6	U
2,2-Dichloropropane	2.6	U	n-Propylbenzene	2.6	U
Chloroform	2.6	U	2-Chlorotoluene	2.6	U
1,1,1-Trichloroethane	2.6	U	1,3,5-Trimethylbenzene	2.6	U
1,1-Dichloropropene	2.6	U	4-Chlorotoluene	2.6	U
Carbon tetrachloride	2.6	U	tert-Butylbenzene	2.6	U
Benzene	2.6	U	1,2,4-Trimethylbenzene	2.6	U
1,2-Dichloroethane	2.6	U	sec-Butylbenzene	2.6	U
Trichloroethene	2.6	U	1,3-Dichlorobenzene	2.6	U
1,2-Dichloropropane	2.6	U	p-Isopropyltoluene	2.6	U
Dibromomethane	2.6	U	1,4-Dichlorobenzene	2.6	U
Bromodichloromethane	2.6	U	n-Butylbenzene	2.6	U
2-Chloroethylvinyl ether	2.6	U	1,2-Dichlorobenzene	2.6	U
Methyl isobutyl ketone (MIBK)	2.6	U	1,2-Dibromo-3-chloropropane	2.6	U
cis-1,3-Dichloropropene	2.6	U	1,2,4-Trichlorobenzene	2.6	U
Toluene	2.6	U	Hexachlorobutadiene	2.6	U
trans-1,3-Dichloropropene	2.6	U	Naphthalene	2.6	U
1,1,2-Trichloroethane	2.6	U	1,2,3-Trichlorobenzene	2.6	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	106	84-108
Toluene-d8	94	87-108
4-Bromofluorobenzene	80	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-6SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-13**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	71.5	5.68	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.5	U	2-Hexanone	2.5	U
Chloromethane	**1.5**	J	Tetrachloroethene	2.5	U
Vinyl chloride	2.5	U	1,3-Dichloropropane	2.5	U
Bromomethane	2.5	U	Dibromochloromethane	2.5	U
Chloroethane	2.5	U	1,2-Dibromoethane	2.5	U
Trichlorofluoromethane	2.5	U	Chlorobenzene	2.5	U
Acetone	**78**	B	1,1,1,2-Tetrachloroethane	2.5	U
1,1-Dichloroethene	2.5	U	Ethylbenzene	2.5	U
Carbon disulfide	2.5	U	p/m-Xylene	4.9	U
Methylene chloride	**4.4**	JB	o-Xylene	2.5	U
Methyl tert-butyl ether (MTBE)	2.5	U	Styrene	2.5	U
trans-1,2-Dichloroethene	2.5	U	Bromoform	2.5	U
1,1-Dichloroethane	2.5	U	Isopropylbenzene	2.5	U
Vinyl acetate	2.5	U	1,1,2,2-Tetrachloroethane	2.5	U
2-Butanone (MEK)	2.5	U	Bromobenzene	2.5	U
cis-1,2-Dichloroethene	2.5	U	1,2,3-Trichloropropane	2.5	U
2,2-Dichloropropane	2.5	U	n-Propylbenzene	2.5	U
Chloroform	2.5	U	2-Chlorotoluene	2.5	U
1,1,1-Trichloroethane	2.5	U	1,3,5-Trimethylbenzene	2.5	U
1,1-Dichloropropene	2.5	U	4-Chlorotoluene	2.5	U
Carbon tetrachloride	2.5	U	tert-Butylbenzene	2.5	U
Benzene	2.5	U	1,2,4-Trimethylbenzene	2.5	U
1,2-Dichloroethane	2.5	U	sec-Butylbenzene	2.5	U
Trichloroethene	2.5	U	1,3-Dichlorobenzene	2.5	U
1,2-Dichloropropane	2.5	U	p-Isopropyltoluene	2.5	U
Dibromomethane	2.5	U	1,4-Dichlorobenzene	2.5	U
Bromodichloromethane	2.5	U	n-Butylbenzene	2.5	U
2-Chloroethylvinyl ether	2.5	U	1,2-Dichlorobenzene	2.5	U
Methyl isobutyl ketone (MIBK)	2.5	U	1,2-Dibromo-3-chloropropane	2.5	U
cis-1,3-Dichloropropene	2.5	U	1,2,4-Trichlorobenzene	2.5	U
Toluene	2.5	U	Hexachlorobutadiene	2.5	U
trans-1,3-Dichloropropene	2.5	U	Naphthalene	2.5	U
1,1,2-Trichloroethane	2.5	U	1,2,3-Trichlorobenzene	2.5	U

Surrogate	% Recovery		Acceptance Range (%)
Dibromofluoromethane	108		84-108
Toluene-d8	92		87-108
4-Bromofluorobenzene	76	§	77-113

§ - Surrogate value outside of acceptable range.
B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-7SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-14**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	86.1	6.64	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	1.7	U	2-Hexanone	1.7	U
Chloromethane	1.7	U	Tetrachloroethene	1.7	U
Vinyl chloride	1.7	U	1,3-Dichloropropane	1.7	U
Bromomethane	1.7	U	Dibromochloromethane	1.7	U
Chloroethane	1.7	U	1,2-Dibromoethane	1.7	U
Trichlorofluoromethane	1.7	U	Chlorobenzene	1.7	U
Acetone	**46**	B	1,1,1,2-Tetrachloroethane	1.7	U
1,1-Dichloroethene	1.7	U	Ethylbenzene	1.7	U
Carbon disulfide	1.7	U	p/m-Xylene	3.5	U
Methylene chloride	**3.1**	JB	o-Xylene	1.7	U
Methyl tert-butyl ether (MTBE)	1.7	U	Styrene	1.7	U
trans-1,2-Dichloroethene	1.7	U	Bromoform	1.7	U
1,1-Dichloroethane	1.7	U	Isopropylbenzene	1.7	U
Vinyl acetate	1.7	U	1,1,2,2-Tetrachloroethane	1.7	U
2-Butanone (MEK)	1.7	U	Bromobenzene	1.7	U
cis-1,2-Dichloroethene	1.7	U	1,2,3-Trichloropropane	1.7	U
2,2-Dichloropropane	1.7	U	n-Propylbenzene	1.7	U
Chloroform	1.7	U	2-Chlorotoluene	1.7	U
1,1,1-Trichloroethane	1.7	U	1,3,5-Trimethylbenzene	1.7	U
1,1-Dichloropropene	1.7	U	4-Chlorotoluene	1.7	U
Carbon tetrachloride	1.7	U	tert-Butylbenzene	1.7	U
Benzene	1.7	U	1,2,4-Trimethylbenzene	1.7	U
1,2-Dichloroethane	1.7	U	sec-Butylbenzene	1.7	U
Trichloroethene	1.7	U	1,3-Dichlorobenzene	1.7	U
1,2-Dichloropropane	1.7	U	p-Isopropyltoluene	1.7	U
Dibromomethane	1.7	U	1,4-Dichlorobenzene	1.7	U
Bromodichloromethane	1.7	U	n-Butylbenzene	1.7	U
2-Chloroethylvinyl ether	1.7	U	1,2-Dichlorobenzene	1.7	U
Methyl isobutyl ketone (MIBK)	1.7	U	1,2-Dibromo-3-chloropropane	1.7	U
cis-1,3-Dichloropropene	1.7	U	1,2,4-Trichlorobenzene	1.7	U
Toluene	1.7	U	Hexachlorobutadiene	1.7	U
trans-1,3-Dichloropropene	1.7	U	Naphthalene	**2.5**	
1,1,2-Trichloroethane	1.7	U	1,2,3-Trichlorobenzene	1.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	105	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	84	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-7SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-14R**
Associated Blank: **B2031404**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/15/01	86.1	5.53	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	2.1	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	2.1	U	Chlorobenzene	2.1	U
Acetone	**37**	B	1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	4.2	U
Methylene chloride	**3.5**	JB	o-Xylene	2.1	U
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	2.1	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	2.1	U	Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	2.1	U	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	**1.6**	J
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	105	84-108
Toluene-d8	96	87-108
4-Bromofluorobenzene	86	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-7WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-15**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	86	4.35	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.7	U	2-Hexanone	2.7	U
Chloromethane	2.7	U	Tetrachloroethene	2.7	U
Vinyl chloride	2.7	U	1,3-Dichloropropane	2.7	U
Bromomethane	2.7	U	Dibromochloromethane	2.7	U
Chloroethane	2.7	U	1,2-Dibromoethane	2.7	U
Trichlorofluoromethane	2.7	U	Chlorobenzene	2.7	U
Acetone	**37**	B	1,1,1,2-Tetrachloroethane	2.7	U
1,1-Dichloroethene	2.7	U	Ethylbenzene	2.7	U
Carbon disulfide	2.7	U	p/m-Xylene	5.3	U
Methylene chloride	**3.7**	JB	o-Xylene	2.7	U
Methyl tert-butyl ether (MTBE)	2.7	U	Styrene	2.7	U
trans-1,2-Dichloroethene	2.7	U	Bromoform	2.7	U
1,1-Dichloroethane	2.7	U	Isopropylbenzene	2.7	U
Vinyl acetate	2.7	U	1,1,2,2-Tetrachloroethane	2.7	U
2-Butanone (MEK)	2.7	U	Bromobenzene	2.7	U
cis-1,2-Dichloroethene	2.7	U	1,2,3-Trichloropropane	2.7	U
2,2-Dichloropropane	2.7	U	n-Propylbenzene	2.7	U
Chloroform	2.7	U	2-Chlorotoluene	2.7	U
1,1,1-Trichloroethane	2.7	U	1,3,5-Trimethylbenzene	2.7	U
1,1-Dichloropropene	2.7	U	4-Chlorotoluene	2.7	U
Carbon tetrachloride	2.7	U	tert-Butylbenzene	2.7	U
Benzene	2.7	U	1,2,4-Trimethylbenzene	2.7	U
1,2-Dichloroethane	2.7	U	sec-Butylbenzene	2.7	U
Trichloroethene	2.7	U	1,3-Dichlorobenzene	2.7	U
1,2-Dichloropropane	2.7	U	p-Isopropyltoluene	2.7	U
Dibromomethane	2.7	U	1,4-Dichlorobenzene	2.7	U
Bromodichloromethane	2.7	U	n-Butylbenzene	2.7	U
2-Chloroethylvinyl ether	2.7	U	1,2-Dichlorobenzene	2.7	U
Methyl isobutyl ketone (MIBK)	2.7	U	1,2-Dibromo-3-chloropropane	2.7	U
cis-1,3-Dichloropropene	2.7	U	1,2,4-Trichlorobenzene	2.7	U
Toluene	2.7	U	Hexachlorobutadiene	2.7	U
trans-1,3-Dichloropropene	2.7	U	Naphthalene	2.7	U
1,1,2-Trichloroethane	2.7	U	1,2,3-Trichlorobenzene	2.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	94	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-8SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-16**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/14/01	84.8	3.99	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	3.0	U	2-Hexanone	3.0	U
Chloromethane	3.0	U	Tetrachloroethene	3.0	U
Vinyl chloride	3.0	U	1,3-Dichloropropane	3.0	U
Bromomethane	3.0	U	Dibromochloromethane	3.0	U
Chloroethane	3.0	U	1,2-Dibromoethane	3.0	U
Trichlorofluoromethane	3.0	U	Chlorobenzene	3.0	U
Acetone	**57**	B	1,1,1,2-Tetrachloroethane	3.0	U
1,1-Dichloroethene	3.0	U	Ethylbenzene	3.0	U
Carbon disulfide	3.0	U	p/m-Xylene	5.9	U
Methylene chloride	**4.9**	JB	o-Xylene	3.0	U
Methyl tert-butyl ether (MTBE)	3.0	U	Styrene	3.0	U
trans-1,2-Dichloroethene	3.0	U	Bromoform	3.0	U
1,1-Dichloroethane	3.0	U	Isopropylbenzene	3.0	U
Vinyl acetate	3.0	U	1,1,2,2-Tetrachloroethane	3.0	U
2-Butanone (MEK)	3.0	U	Bromobenzene	3.0	U
cis-1,2-Dichloroethene	3.0	U	1,2,3-Trichloropropane	3.0	U
2,2-Dichloropropane	3.0	U	n-Propylbenzene	3.0	U
Chloroform	3.0	U	2-Chlorotoluene	3.0	U
1,1,1-Trichloroethane	3.0	U	1,3,5-Trimethylbenzene	3.0	U
1,1-Dichloropropene	3.0	U	4-Chlorotoluene	3.0	U
Carbon tetrachloride	3.0	U	tert-Butylbenzene	3.0	U
Benzene	3.0	U	1,2,4-Trimethylbenzene	3.0	U
1,2-Dichloroethane	3.0	U	sec-Butylbenzene	3.0	U
Trichloroethene	3.0	U	1,3-Dichlorobenzene	3.0	U
1,2-Dichloropropane	3.0	U	p-Isopropyltoluene	3.0	U
Dibromomethane	3.0	U	1,4-Dichlorobenzene	3.0	U
Bromodichloromethane	3.0	U	n-Butylbenzene	3.0	U
2-Chloroethylvinyl ether	3.0	U	1,2-Dichlorobenzene	3.0	U
Methyl isobutyl ketone (MIBK)	3.0	U	1,2-Dibromo-3-chloropropane	3.0	U
cis-1,3-Dichloropropene	3.0	U	1,2,4-Trichlorobenzene	3.0	U
Toluene	3.0	U	Hexachlorobutadiene	3.0	U
trans-1,3-Dichloropropene	3.0	U	Naphthalene	3.0	U
1,1,2-Trichloroethane	3.0	U	1,2,3-Trichlorobenzene	3.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	89	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-8WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-17**
Associated Blank: **B2031404**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/15/01	88	4.14	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.7	U	2-Hexanone	2.7	U
Chloromethane	2.7	U	Tetrachloroethene	2.7	U
Vinyl chloride	2.7	U	1,3-Dichloropropane	2.7	U
Bromomethane	2.7	U	Dibromochloromethane	2.7	U
Chloroethane	2.7	U	1,2-Dibromoethane	2.7	U
Trichlorofluoromethane	2.7	U	Chlorobenzene	2.7	U
Acetone	**53**	B	1,1,1,2-Tetrachloroethane	2.7	U
1,1-Dichloroethene	2.7	U	Ethylbenzene	2.7	U
Carbon disulfide	2.7	U	p/m-Xylene	5.5	U
Methylene chloride	**4.1**	JB	o-Xylene	2.7	U
Methyl tert-butyl ether (MTBE)	2.7	U	Styrene	2.7	U
trans-1,2-Dichloroethene	2.7	U	Bromoform	2.7	U
1,1-Dichloroethane	2.7	U	Isopropylbenzene	2.7	U
Vinyl acetate	2.7	U	1,1,2,2-Tetrachloroethane	2.7	U
2-Butanone (MEK)	2.7	U	Bromobenzene	2.7	U
cis-1,2-Dichloroethene	2.7	U	1,2,3-Trichloropropane	2.7	U
2,2-Dichloropropane	2.7	U	n-Propylbenzene	2.7	U
Chloroform	2.7	U	2-Chlorotoluene	2.7	U
1,1,1-Trichloroethane	2.7	U	1,3,5-Trimethylbenzene	2.7	U
1,1-Dichloropropene	2.7	U	4-Chlorotoluene	2.7	U
Carbon tetrachloride	2.7	U	tert-Butylbenzene	2.7	U
Benzene	2.7	U	1,2,4-Trimethylbenzene	2.7	U
1,2-Dichloroethane	2.7	U	sec-Butylbenzene	2.7	U
Trichloroethene	2.7	U	1,3-Dichlorobenzene	2.7	U
1,2-Dichloropropane	2.7	U	p-Isopropyltoluene	2.7	U
Dibromomethane	2.7	U	1,4-Dichlorobenzene	2.7	U
Bromodichloromethane	2.7	U	n-Butylbenzene	2.7	U
2-Chloroethylvinyl ether	2.7	U	1,2-Dichlorobenzene	2.7	U
Methyl isobutyl ketone (MIBK)	2.7	U	1,2-Dibromo-3-chloropropane	2.7	U
cis-1,3-Dichloropropene	2.7	U	1,2,4-Trichlorobenzene	2.7	U
Toluene	2.7	U	Hexachlorobutadiene	2.7	U
trans-1,3-Dichloropropene	2.7	U	Naphthalene	2.7	U
1,1,2-Trichloroethane	2.7	U	1,2,3-Trichlorobenzene	2.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	91	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-9SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-18**
Associated Blank: **B2031503**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/16/01	83.5	4.56	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.6	U	2-Hexanone	2.6	U
Chloromethane	2.6	U	Tetrachloroethene	2.6	U
Vinyl chloride	2.6	U	1,3-Dichloropropane	2.6	U
Bromomethane	2.6	U	Dibromochloromethane	2.6	U
Chloroethane	2.6	U	1,2-Dibromoethane	2.6	U
Trichlorofluoromethane	2.6	U	Chlorobenzene	2.6	U
Acetone	**54**	B	1,1,1,2-Tetrachloroethane	2.6	U
1,1-Dichloroethene	2.6	U	Ethylbenzene	2.6	U
Carbon disulfide	2.6	U	p/m-Xylene	5.3	U
Methylene chloride	**3.3**	JB	o-Xylene	2.6	U
Methyl tert-butyl ether (MTBE)	2.6	U	Styrene	2.6	U
trans-1,2-Dichloroethene	2.6	U	Bromoform	2.6	U
1,1-Dichloroethane	2.6	U	Isopropylbenzene	2.6	U
Vinyl acetate	2.6	U	1,1,2,2-Tetrachloroethane	2.6	U
2-Butanone (MEK)	2.6	U	Bromobenzene	2.6	U
cis-1,2-Dichloroethene	2.6	U	1,2,3-Trichloropropane	2.6	U
2,2-Dichloropropane	2.6	U	n-Propylbenzene	2.6	U
Chloroform	2.6	U	2-Chlorotoluene	2.6	U
1,1,1-Trichloroethane	2.6	U	1,3,5-Trimethylbenzene	2.6	U
1,1-Dichloropropene	2.6	U	4-Chlorotoluene	2.6	U
Carbon tetrachloride	2.6	U	tert-Butylbenzene	2.6	U
Benzene	2.6	U	1,2,4-Trimethylbenzene	2.6	U
1,2-Dichloroethane	2.6	U	sec-Butylbenzene	2.6	U
Trichloroethene	2.6	U	1,3-Dichlorobenzene	2.6	U
1,2-Dichloropropane	2.6	U	p-Isopropyltoluene	2.6	U
Dibromomethane	2.6	U	1,4-Dichlorobenzene	2.6	U
Bromodichloromethane	2.6	U	n-Butylbenzene	2.6	U
2-Chloroethylvinyl ether	2.6	U	1,2-Dichlorobenzene	2.6	U
Methyl isobutyl ketone (MIBK)	2.6	U	1,2-Dibromo-3-chloropropane	2.6	U
cis-1,3-Dichloropropene	2.6	U	1,2,4-Trichlorobenzene	2.6	U
Toluene	2.6	U	Hexachlorobutadiene	2.6	U
trans-1,3-Dichloropropene	2.6	U	Naphthalene	2.6	U
1,1,2-Trichloroethane	2.6	U	1,2,3-Trichlorobenzene	2.6	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	96	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-9WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-19**
Associated Blank: **B2031404**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/15/01	81.2	5.2	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.4	U	2-Hexanone	2.4	U
Chloromethane	2.4	U	Tetrachloroethene	2.4	U
Vinyl chloride	2.4	U	1,3-Dichloropropane	2.4	U
Bromomethane	2.4	U	Dibromochloromethane	2.4	U
Chloroethane	2.4	U	1,2-Dibromoethane	2.4	U
Trichlorofluoromethane	2.4	U	Chlorobenzene	2.4	U
Acetone	**67**	B	1,1,1,2-Tetrachloroethane	2.4	U
1,1-Dichloroethene	2.4	U	Ethylbenzene	2.4	U
Carbon disulfide	2.4	U	p/m-Xylene	4.7	U
Methylene chloride	**2.5**	JB	o-Xylene	2.4	U
Methyl tert-butyl ether (MTBE)	2.4	U	Styrene	2.4	U
trans-1,2-Dichloroethene	2.4	U	Bromoform	2.4	U
1,1-Dichloroethane	2.4	U	Isopropylbenzene	2.4	U
Vinyl acetate	2.4	U	1,1,2,2-Tetrachloroethane	2.4	U
2-Butanone (MEK)	**5.4**		Bromobenzene	2.4	U
cis-1,2-Dichloroethene	2.4	U	1,2,3-Trichloropropane	2.4	U
2,2-Dichloropropane	2.4	U	n-Propylbenzene	2.4	U
Chloroform	2.4	U	2-Chlorotoluene	2.4	U
1,1,1-Trichloroethane	2.4	U	1,3,5-Trimethylbenzene	2.4	U
1,1-Dichloropropene	2.4	U	4-Chlorotoluene	2.4	U
Carbon tetrachloride	2.4	U	tert-Butylbenzene	2.4	U
Benzene	2.4	U	1,2,4-Trimethylbenzene	2.4	U
1,2-Dichloroethane	2.4	U	sec-Butylbenzene	2.4	U
Trichloroethene	2.4	U	1,3-Dichlorobenzene	2.4	U
1,2-Dichloropropane	2.4	U	p-Isopropyltoluene	2.4	U
Dibromomethane	2.4	U	1,4-Dichlorobenzene	2.4	U
Bromodichloromethane	2.4	U	n-Butylbenzene	2.4	U
2-Chloroethylvinyl ether	2.4	U	1,2-Dichlorobenzene	2.4	U
Methyl isobutyl ketone (MIBK)	2.4	U	1,2-Dibromo-3-chloropropane	2.4	U
cis-1,3-Dichloropropene	2.4	U	1,2,4-Trichlorobenzene	2.4	U
Toluene	2.4	U	Hexachlorobutadiene	2.4	U
trans-1,3-Dichloropropene	2.4	U	Naphthalene	**1.2**	
1,1,2-Trichloroethane	2.4	U	1,2,3-Trichlorobenzene	2.4	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	95	87-108
4-Bromofluorobenzene	85	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-10SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-20**
Associated Blank: **B2031503**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/16/01	72.6	5.58	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.5	U	2-Hexanone	2.5	U
Chloromethane	2.5	U	Tetrachloroethene	2.5	U
Vinyl chloride	2.5	U	1,3-Dichloropropane	2.5	U
Bromomethane	2.5	U	Dibromochloromethane	2.5	U
Chloroethane	2.5	U	1,2-Dibromoethane	2.5	U
Trichlorofluoromethane	2.5	U	Chlorobenzene	2.5	U
Acetone	**45**	B	1,1,1,2-Tetrachloroethane	2.5	U
1,1-Dichloroethene	2.5	U	Ethylbenzene	2.5	U
Carbon disulfide	2.5	U	p/m-Xylene	4.9	U
Methylene chloride	**2.5**	JB	o-Xylene	2.5	U
Methyl tert-butyl ether (MTBE)	2.5	U	Styrene	2.5	U
trans-1,2-Dichloroethene	2.5	U	Bromoform	2.5	U
1,1-Dichloroethane	2.5	U	Isopropylbenzene	2.5	U
Vinyl acetate	2.5	U	1,1,2,2-Tetrachloroethane	2.5	U
2-Butanone (MEK)	2.5	U	Bromobenzene	2.5	U
cis-1,2-Dichloroethene	2.5	U	1,2,3-Trichloropropane	2.5	U
2,2-Dichloropropane	2.5	U	n-Propylbenzene	2.5	U
Chloroform	2.5	U	2-Chlorotoluene	2.5	U
1,1,1-Trichloroethane	2.5	U	1,3,5-Trimethylbenzene	2.5	U
1,1-Dichloropropene	2.5	U	4-Chlorotoluene	2.5	U
Carbon tetrachloride	2.5	U	tert-Butylbenzene	2.5	U
Benzene	2.5	U	1,2,4-Trimethylbenzene	2.5	U
1,2-Dichloroethane	2.5	U	sec-Butylbenzene	2.5	U
Trichloroethene	2.5	U	1,3-Dichlorobenzene	2.5	U
1,2-Dichloropropane	2.5	U	p-Isopropyltoluene	2.5	U
Dibromomethane	2.5	U	1,4-Dichlorobenzene	2.5	U
Bromodichloromethane	2.5	U	n-Butylbenzene	2.5	U
2-Chloroethylvinyl ether	2.5	U	1,2-Dichlorobenzene	2.5	U
Methyl isobutyl ketone (MIBK)	2.5	U	1,2-Dibromo-3-chloropropane	2.5	U
cis-1,3-Dichloropropene	2.5	U	1,2,4-Trichlorobenzene	2.5	U
Toluene	2.5	U	Hexachlorobutadiene	2.5	U
trans-1,3-Dichloropropene	2.5	U	Naphthalene	2.5	U
1,1,2-Trichloroethane	2.5	U	1,2,3-Trichlorobenzene	2.5	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	96	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-10WSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-21**
Associated Blank: **B2031404**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/15/01	86.3	6.42	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	1.8	U	2-Hexanone	1.8	U
Chloromethane	1.8	U	Tetrachloroethene	**3.1**	
Vinyl chloride	1.8	U	1,3-Dichloropropane	1.8	U
Bromomethane	1.8	U	Dibromochloromethane	1.8	U
Chloroethane	1.8	U	1,2-Dibromoethane	1.8	U
Trichlorofluoromethane	1.8	U	Chlorobenzene	1.8	U
Acetone	**40**	B	1,1,1,2-Tetrachloroethane	1.8	U
1,1-Dichloroethene	1.8	U	Ethylbenzene	1.8	U
Carbon disulfide	1.8	U	p/m-Xylene	3.6	U
Methylene chloride	**1.9**	JB	o-Xylene	1.8	U
Methyl tert-butyl ether (MTBE)	1.8	U	Styrene	1.8	U
trans-1,2-Dichloroethene	1.8	U	Bromoform	1.8	U
1,1-Dichloroethane	1.8	U	Isopropylbenzene	1.8	U
Vinyl acetate	1.8	U	1,1,2,2-Tetrachloroethane	1.8	U
2-Butanone (MEK)	**2.9**		Bromobenzene	1.8	U
cis-1,2-Dichloroethene	1.8	U	1,2,3-Trichloropropane	1.8	U
2,2-Dichloropropane	1.8	U	n-Propylbenzene	1.8	U
Chloroform	1.8	U	2-Chlorotoluene	1.8	U
1,1,1-Trichloroethane	1.8	U	1,3,5-Trimethylbenzene	1.8	U
1,1-Dichloropropene	1.8	U	4-Chlorotoluene	1.8	U
Carbon tetrachloride	1.8	U	tert-Butylbenzene	1.8	U
Benzene	1.8	U	1,2,4-Trimethylbenzene	1.8	U
1,2-Dichloroethane	1.8	U	sec-Butylbenzene	1.8	U
Trichloroethene	1.8	U	1,3-Dichlorobenzene	1.8	U
1,2-Dichloropropane	1.8	U	p-Isopropyltoluene	1.8	U
Dibromomethane	1.8	U	1,4-Dichlorobenzene	1.8	U
Bromodichloromethane	1.8	U	n-Butylbenzene	1.8	U
2-Chloroethylvinyl ether	1.8	U	1,2-Dichlorobenzene	1.8	U
Methyl isobutyl ketone (MIBK)	1.8	U	1,2-Dibromo-3-chloropropane	1.8	U
cis-1,3-Dichloropropene	1.8	U	1,2,4-Trichlorobenzene	1.8	U
Toluene	1.8	U	Hexachlorobutadiene	1.8	U
trans-1,3-Dichloropropene	1.8	U	Naphthalene	**71**	
1,1,2-Trichloroethane	1.8	U	1,2,3-Trichlorobenzene	1.8	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	88	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-11SS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-22**
Associated Blank: **B2031503**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/16/01	68.2	5.55	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.6	U	2-Hexanone	2.6	U
Chloromethane	2.6	U	Tetrachloroethene	2.6	U
Vinyl chloride	2.6	U	1,3-Dichloropropane	2.6	U
Bromomethane	**1.7**	J	Dibromochloromethane	2.6	U
Chloroethane	2.6	U	1,2-Dibromoethane	2.6	U
Trichlorofluoromethane	2.6	U	Chlorobenzene	2.6	U
Acetone	**65**	B	1,1,1,2-Tetrachloroethane	2.6	U
1,1-Dichloroethene	2.6	U	Ethylbenzene	2.6	U
Carbon disulfide	2.6	U	p/m-Xylene	5.3	U
Methylene chloride	**1.8**	JB	o-Xylene	2.6	U
Methyl tert-butyl ether (MTBE)	2.6	U	Styrene	2.6	U
trans-1,2-Dichloroethene	2.6	U	Bromoform	2.6	U
1,1-Dichloroethane	2.6	U	Isopropylbenzene	2.6	U
Vinyl acetate	2.6	U	1,1,2,2-Tetrachloroethane	2.6	U
2-Butanone (MEK)	2.6	U	Bromobenzene	2.6	U
cis-1,2-Dichloroethene	2.6	U	1,2,3-Trichloropropane	2.6	U
2,2-Dichloropropane	2.6	U	n-Propylbenzene	2.6	U
Chloroform	2.6	U	2-Chlorotoluene	2.6	U
1,1,1-Trichloroethane	2.6	U	1,3,5-Trimethylbenzene	2.6	U
1,1-Dichloropropene	2.6	U	4-Chlorotoluene	2.6	U
Carbon tetrachloride	2.6	U	tert-Butylbenzene	2.6	U
Benzene	2.6	U	1,2,4-Trimethylbenzene	2.6	U
1,2-Dichloroethane	2.6	U	sec-Butylbenzene	2.6	U
Trichloroethene	2.6	U	1,3-Dichlorobenzene	2.6	U
1,2-Dichloropropane	2.6	U	p-Isopropyltoluene	2.6	U
Dibromomethane	2.6	U	1,4-Dichlorobenzene	2.6	U
Bromodichloromethane	2.6	U	n-Butylbenzene	2.6	U
2-Chloroethylvinyl ether	2.6	U	1,2-Dichlorobenzene	2.6	U
Methyl isobutyl ketone (MIBK)	2.6	U	1,2-Dibromo-3-chloropropane	2.6	U
cis-1,3-Dichloropropene	2.6	U	1,2,4-Trichlorobenzene	2.6	U
Toluene	2.6	U	Hexachlorobutadiene	2.6	U
trans-1,3-Dichloropropene	2.6	U	Naphthalene	2.6	U
1,1,2-Trichloroethane	2.6	U	1,2,3-Trichlorobenzene	2.6	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	92	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-11SSW**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-23**
Associated Blank: **B2031404**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/15/01	74.9	5.89	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**57**	B	1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.5	U
Methylene chloride	**2.6**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	2.3	U	Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	**32**	
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	96	87-108
4-Bromofluorobenzene	86	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Trip Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **45563-24**
Associated Blank: **B1031502**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/13/01	03/13/01	03/15/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**12**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	5.0	U	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	78-118
Toluene-d8	99	87-113
4-Bromofluorobenzene	97	76-120

B - Found in associated blank as well as sample.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **B2031402**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/14/01	100	5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**2.9**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**2.8**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	99	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **B2031404**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/15/01	100	5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**2.1**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**1.6**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	97	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **B1031502**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/15/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**3.3**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	5.0	U	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	78-118
Toluene-d8	98	87-113
4-Bromofluorobenzene	97	76-120

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **B2031503**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/16/01	100	5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**2.5**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**3.4**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	96	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **See Below**
Associated Blank: **B2031402**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	AL

Lab ID:	B2031402	Q2031401	Q2031402

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	21	106	22	108	2	30	60-142
Benzene	2.0	U	21	104	20	103	1	30	56-143
Trichloroethene	2.0	U	21	106	21	103	3	26	76-127
Toluene	2.0	U	20	101	20	98	3	27	52-147
Chlorobenzene	2.0	U	20	101	20	99	2	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	100	100	84-108
Toluene-d8	99	99	87-108
4-Bromofluorobenzene	100	99	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **See Below**
Associated Blank: **B2031404**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	AL

Lab ID:	B2031404	Q2031403	Q2031404

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	22	113	23	114	1	30	60-142
Benzene	2.0	U	20	102	20	102	0	30	56-143
Trichloroethene	2.0	U	20	101	20	101	0	26	76-127
Toluene	2.0	U	20	98	19	96	2	27	52-147
Chlorobenzene	2.0	U	20	99	19	97	2	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	98	99	84-108
Toluene-d8	99	98	87-108
4-Bromofluorobenzene	100	99	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **See Below**
Associated Blank: **B1031502**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	JAD

Lab ID:	B1031502		Q1031501		Q1031502				
Parameter	**Method Blank Conc.**		**Blank Spike Conc.**	**% Recovery**	**Blank Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
1,1-Dichloroethene	2.0	U	21	106	22	107	1	30	60-142
Benzene	2.0	U	21	103	20	102	1	30	56-143
Trichloroethene	2.0	U	21	106	21	104	2	30	76-127
Toluene	2.0	U	20	100	19	96	3	30	52-147
Chlorobenzene	2.0	U	20	102	20	100	2	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	98	100	78-118
Toluene-d8	98	97	87-113
4-Bromofluorobenzene	99	98	76-120

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145563**
Lab ID: **See Below**
Associated Blank: **B2031503**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	AL

Lab ID:	B2031503	Q2031503		Q2031504				
Parameter	**Method Blank Conc.**	**Blank Spike Conc.**	**% Recovery**	**Blank Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
1,1-Dichloroethene	2.0 U	25	127	25	125	1	30	60-142
Benzene	2.0 U	23	114	22	112	2	30	56-143
Trichloroethene	2.0 U	23	113	22	112	1	26	76-127
Toluene	2.0 U	22	110	21	107	3	27	52-147
Chlorobenzene	2.0 U	22	111	22	108	3	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	100	99	84-108
Toluene-d8	99	99	87-108
4-Bromofluorobenzene	101	99	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Appendix D-4

Reconfirmatory Laboratory Analytical Results
Areas 1, 2 and 3

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	Bldg A-85
ETR:	00145608
Report Date:	03/29/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45608
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Semi-Volatile Organics by GC/MS

1. The second Continuing Calibration Verification (CCV) standard analyzed on 3/28/01 (C032802) had three Continuing Calibration Check (CCC) compounds recover outside the 20%D QC limit. 2,4,6-Trichlorophenol recovered low at 36.6%D, n-Nitrosodiphenylamine recovered high at 36.7%D and Di-n-octylphthalate recovered high at 33.3%D. The samples associated with this CCV are SBNL14-A1-15SW-A (45608-07 and MS/MSD) and SBNL14-A1-16WSW-A (45608-08). These compounds were not detected in these samples.

2. The matrix spike and matrix spike duplicate for sample SBNL14-A1-15SW-A (45608-07) had concentrations for the compound Phenol outside the upper QC limit of 90%. Phenol had recoveries of 96% and 95%, respectively. A matrix effect could be indicated since the associated CCV (C032802) and Laboratory Control Sample (LCS) had acceptable results for this compound.

Metals

1. Sample SBNL14-SP5-A (45608-01) was digested and analyzed in duplicate with a matrix spike. All QC measures were within acceptance criteria except for the following:

   Barium: The RPD between duplicates was 25% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Chromium: The RPD between duplicates was 23% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Lead: The RPD between duplicates was 29% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Date: 3-29-01
Woods Hole Group Environmental Laboratories

F:\SHARED\NARRTEMP\FOSWHE\45608.dot

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767

TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA 02110

Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: SUE LEACH / KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. #: 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/26/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	40 ml / VOA / NAHSO4	40 ml / VOA / MEOH			
15608-1	SBNL14-SP5-A	3/26/01	1040	COMP	SOIL	VOC EPA METHOD 6020		2	1			
-2	SP6-A		1045			↓ ↓		2	1			
-1	SP5-A		1040			PCB, SVOC, RCRA 8, FLASH POINT, REACTIVITY, CORROSIVITY (PH)	1					
-2	SP6-A		1045			↓ ↓						
15608-3	A1-10SW-A		1100			SVOC, RCRA 8						
4	A1-11ESW-A		1105			↓ ↓						
5	A1-12SSW-A		1110			↓ ↓						
6	A1-13SSW-A		1115			RCRA 8						
7	A1-15SW-A		1120			SVOC, RCRA 8						
8	A1-16WSW-A	↓	1125	↓	↓	↓ ↓	↓					

NUMBER OF CONTAINERS

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
[signature]	3/26/01	1835	Nancy A Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
TRIP BLANK INCLUDED

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

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Raynham, MA 02767

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COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. #: 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/26/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE — NUMBER OF CONTAINERS
43008-9	SBNL14-A1-17WSW-A	3/26/01	1130	COMP.	SOIL	RCRA 8	1
10	A1-18WSW-A		1135				
11	A1-19WSW-A		1140				
12	A1-7SS-B		1300				
13	A2-5-B		1305				
14	A3-11SSW-B		1310				

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. White	3/26/01	1835	Nancy A Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
TRIP BLANK INCLUDED

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145608-01	SBNL14-SP5-A	SOIL	03/26/2001 10:40:00 AM	03/26/2001 2:24:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Reactivity
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Ignitability
Lead - 6020
Mercury - 7471
Metals Analysis
pH
Selenium - 6020
Silver - 6020

0145608-02	SBNL14-SP6-A	SOIL	03/26/2001 10:45:00 AM	03/26/2001 2:24:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Reactivity
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Ignitability
Lead - 6020
Mercury - 7471

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Metals Analysis pH Selenium - 6020 Silver - 6020			
0145608-03	SBNL14-A1-10SW-A	SOIL	03/26/2001 11:00:00 AM	03/26/2001 2:24:00 PM
	Lab Testing:			
	8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145608-04	SBNL14-A1-11ESW-A	SOIL	03/26/2001 11:05:00 AM	03/26/2001 2:24:00 PM
	Lab Testing:			
	8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145608-05	SBNL14-A1-12SSW-A	SOIL	03/26/2001 11:10:00 AM	03/26/2001 2:24:00 PM

Lab Testing:

8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Selenium - 6020
Silver - 6020

0145608-06	SBNL14-A1-13SSW-A	SOIL	03/26/2001 11:15:00 AM	03/26/2001 2:24:00 PM

Lab Testing:

Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Selenium - 6020
Silver - 6020

0145608-07	SBNL14-A1-15SW-A	SOIL	03/26/2001 11:20:00 AM	03/26/2001 2:24:00 PM

Lab Testing:

8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Chromium - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Selenium - 6020			
	Silver - 6020			
0145608-08	SBNL14-A1-16WSW-A	SOIL	03/26/2001 11:25:00 AM	03/26/2001 2:24:00 PM
	Lab Testing:			
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Selenium - 6020			
	Silver - 6020			
0145608-09	SBNL14-A1-17WSW-A	SOIL	03/26/2001 11:30:00 AM	03/26/2001 2:24:00 PM
	Lab Testing:			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Selenium - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Silver - 6020			
0145608-10	SBNL14-A1-18WSW-A	SOIL	03/26/2001 11:35:00 AM	03/26/2001 2:24:00 PM
	Lab Testing:			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Selenium - 6020			
	Silver - 6020			
0145608-11	SBNL14-A1-19WSW-A	SOIL	03/26/2001 11:40:00 AM	03/26/2001 2:24:00 PM
	Lab Testing:			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Selenium - 6020			
	Silver - 6020			
0145608-12	SBNL14-A1-7SS-B	SOIL	03/26/2001 1:00:00 PM	03/26/2001 2:24:00 PM
	Lab Testing:			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145608-13	SBNL14-A2-5-B	SOIL	03/26/2001 1:05:00 PM	03/26/2001 2:24:00 PM
	Lab Testing: Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145608-14	SBNL14-A3-11SSW-B	SOIL	03/26/2001 1:10:00 PM	03/26/2001 2:24:00 PM
	Lab Testing: Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: **00145608**
Project: **Bldg A-85**

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145608-15	Trip Blank	SOIL	03/26/2001	03/26/2001 2:24:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

Sample ID: SBNL14-SP5-A
Lab ID: 0145608-01
Matrix: SOIL
% SOLIDS: 93%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.4		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	35		mg/kg dry	5	0.066	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.040		mg/kg dry	5	0.033	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	9.5		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	8.1		mg/kg dry	5	0.33	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.022		mg/kg dry	1	0.010	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.048		mg/kg dry	5	0.034	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-SP6-A
Lab ID: 0145608-02
Matrix: SOIL
% SOLIDS: 93%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.5		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	49		mg/kg dry	5	0.066	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.059		mg/kg dry	5	0.033	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	13		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	16		mg/kg dry	5	0.33	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.064		mg/kg dry	1	0.010	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.032	U	mg/kg dry	5	0.032	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A1-10SW-A
Lab ID: 0145608-03
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.44		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	13		mg/kg dry	5	0.062	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.062		mg/kg dry	5	0.031	6020	03/27/2001	03/27/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

Sample ID: SBNL14-A1-10SW-A
Lab ID: 0145608-03
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, Total	2.2		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	2.2		mg/kg dry	5	0.31	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.060		mg/kg dry	1	0.011	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.033	U	mg/kg dry	5	0.033	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A1-11ESW-A
Lab ID: 0145608-04
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.40		mg/kg dry	5	0.14	6020	03/27/2001	03/27/2001	CLM
Barium, Total	14		mg/kg dry	5	0.057	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.029		mg/kg dry	5	0.029	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	3.9		mg/kg dry	5	0.14	6020	03/27/2001	03/27/2001	CLM
Lead, Total	1.6		mg/kg dry	5	0.29	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.013		mg/kg dry	1	0.0094	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.14	U	mg/kg dry	5	0.14	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.032	U	mg/kg dry	5	0.032	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A1-12SSW-A
Lab ID: 0145608-05
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.28		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	11		mg/kg dry	5	0.062	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.031	U	mg/kg dry	5	0.031	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	2.0		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	1.5		mg/kg dry	5	0.31	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.012		mg/kg dry	1	0.011	7471	03/27/2001	03/28/2001	DJL

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

Sample ID: SBNL14-A1-12SSW-A
Lab ID: 0145608-05
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.034	U	mg/kg dry	5	0.034	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A1-13SSW-A
Lab ID: 0145608-06
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.56		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	13		mg/kg dry	5	0.064	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.032	U	mg/kg dry	5	0.032	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	2.7		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	1.8		mg/kg dry	5	0.32	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.058		mg/kg dry	1	0.0098	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.029	U	mg/kg dry	5	0.029	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A1-15SW-A
Lab ID: 0145608-07
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.43		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	12		mg/kg dry	5	0.062	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.031	U	mg/kg dry	5	0.031	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	2.3		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	1.2		mg/kg dry	5	0.31	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.018		mg/kg dry	1	0.010	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.034	U	mg/kg dry	5	0.034	6020	03/27/2001	03/27/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

Sample ID: SBNL14-A1-7SS-B
Lab ID: 0145608-12
Matrix: SOIL
% SOLIDS: 96%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.033	U	mg/kg dry	5	0.033	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A2-5-B
Lab ID: 0145608-13
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.42		mg/kg dry	5	0.15	6020	03/27/2001	03/27/2001	CLM
Barium, Total	9.8		mg/kg dry	5	0.061	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.031	U	mg/kg dry	5	0.031	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	1.8		mg/kg dry	5	0.15	6020	03/27/2001	03/27/2001	CLM
Lead, Total	1.5		mg/kg dry	5	0.31	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.046		mg/kg dry	1	0.0096	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.15	U	mg/kg dry	5	0.15	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.033	U	mg/kg dry	5	0.033	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A3-11SSW-B
Lab ID: 0145608-14
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.25		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	10		mg/kg dry	5	0.064	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.032	U	mg/kg dry	5	0.032	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	1.9		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	1.3		mg/kg dry	5	0.32	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.022		mg/kg dry	1	0.010	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.034	U	mg/kg dry	5	0.034	6020	03/27/2001	03/27/2001	CLM

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N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

Sample ID: SBNL14-A1-16WSW-A
Lab ID: 0145608-08
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.22		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	16		mg/kg dry	5	0.064	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.032	U	mg/kg dry	5	0.032	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	2.2		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	2.6		mg/kg dry	5	0.32	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.021		mg/kg dry	1	0.010	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.033	U	mg/kg dry	5	0.033	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A1-17WSW-A
Lab ID: 0145608-09
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.61		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	11		mg/kg dry	5	0.064	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.055		mg/kg dry	5	0.032	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	2.1		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	2.0		mg/kg dry	5	0.32	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.056		mg/kg dry	1	0.011	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.029	U	mg/kg dry	5	0.029	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A1-18WSW-A
Lab ID: 0145608-10
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.40		mg/kg dry	5	0.15	6020	03/27/2001	03/27/2001	CLM
Barium, Total	11		mg/kg dry	5	0.058	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.029	U	mg/kg dry	5	0.029	6020	03/27/2001	03/27/2001	CLM

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N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

Sample ID: SBNL14-A1-18WSW-A
Lab ID: 0145608-10
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, Total	2.0		mg/kg dry	5	0.15	6020	03/27/2001	03/27/2001	CLM
Lead, Total	2.0		mg/kg dry	5	0.29	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.053		mg/kg dry	1	0.0094	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.15	U	mg/kg dry	5	0.15	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.030	U	mg/kg dry	5	0.030	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A1-19WSW-A
Lab ID: 0145608-11
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.26		mg/kg dry	5	0.15	6020	03/27/2001	03/27/2001	CLM
Barium, Total	12		mg/kg dry	5	0.061	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.030	U	mg/kg dry	5	0.030	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	3.2		mg/kg dry	5	0.15	6020	03/27/2001	03/27/2001	CLM
Lead, Total	1.2		mg/kg dry	5	0.30	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.014		mg/kg dry	1	0.0096	7471	03/27/2001	03/28/2001	DJL
Selenium, Total	0.15	U	mg/kg dry	5	0.15	6020	03/27/2001	03/27/2001	CLM
Silver, Total	0.034	U	mg/kg dry	5	0.034	6020	03/27/2001	03/27/2001	CLM

Sample ID: SBNL14-A1-7SS-B
Lab ID: 0145608-12
Matrix: SOIL
% SOLIDS: 96%
Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.49		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Barium, Total	14		mg/kg dry	5	0.063	6020	03/27/2001	03/27/2001	CLM
Cadmium, Total	0.031	U	mg/kg dry	5	0.031	6020	03/27/2001	03/27/2001	CLM
Chromium, Total	2.5		mg/kg dry	5	0.16	6020	03/27/2001	03/27/2001	CLM
Lead, Total	1.6		mg/kg dry	5	0.31	6020	03/27/2001	03/27/2001	CLM
Mercury, Total	0.063		mg/kg dry	1	0.011	7471	03/27/2001	03/28/2001	DJL

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N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: Bldg A-85
ETR: 45608

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	Qualifier
Arsenic	45608-01	3/27/01	<2.5	1.4	13	2.72	100	52.4	104	
Barium	45608-01	3/27/01	<1.0	35	25	267	103	266	103	N
Cadmium	45608-01	3/27/01	<0.5	0.040	48	2.72	103	59.7	100	R
Chromium	45608-01	3/27/01	<2.5	9.5	23	267	102	30.9	100	N
Lead	45608-01	3/27/01	<5.0	8.1	29	267	98	74.3	90	N
Mercury	45608-01	3/28/01	<0.2	0.022	17	0.27	107	3.94	105	
Selenium	45608-01	3/27/01	<2.5	<0.16	0	2.72	97	53.2	109	
Silver	45608-01	3/27/01	<0.5	0.048	X	2.65	107	54.5	114	

Qualifiers & Notes:
B = Reported QC is for associated batch
LCS = laboratory control standard
RPD = relative percent difference
C= Not spiked >1/4 sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145608
Project: Bldg A-85

Sample ID: SBNL14-SP5-A
Lab ID: 0145608-01

Matrix: SOIL
% SOLIDS: 93%

Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Ignitibility	>210		F	1	N/A	1010	03/27/2001	MAK
pH	6.6		pH Units	1	N/A	9045C	03/26/2001	DEB

Reactivity

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Reactive Cyanide	10	U	mg/kg wet	1	10	SW846	03/27/2001	MAK
Reactive Sulfide	10	U	mg/kg wet	1	10	SW846 CH.7	03/27/2001	MAK

Sample ID: SBNL14-SP6-A
Lab ID: 0145608-02

Matrix: SOIL
% SOLIDS: 93%

Date Collected: 03/26/2001
Date Received: 03/26/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Ignitibility	>210		F	1	N/A	1010	03/27/2001	MAK
pH	7.0		pH Units	1	N/A	9045C	03/26/2001	DEB

Reactivity

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Reactive Cyanide	10	U	mg/kg wet	1	10	SW846	03/27/2001	MAK
Reactive Sulfide	10	U	mg/kg wet	1	10	SW846 CH.7	03/27/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SP5-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-01**
Associated Blank: **B2032702**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	93.4	5.02	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	2.1	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	2.1	U	Chlorobenzene	2.1	U
Acetone	**7.7**		1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	**2.1**	J
Methylene chloride	**2.6**	JB	o-Xylene	**1.1**	J
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	2.1	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	2.1	U	Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	2.1	U	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	2.1	U
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	91	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	99	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SP6-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-02**
Associated Blank: **B2032702**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	92.8	6.49	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	1.7	U	2-Hexanone	1.7	U
Chloromethane	1.7	U	Tetrachloroethene	1.7	U
Vinyl chloride	1.7	U	1,3-Dichloropropane	1.7	U
Bromomethane	1.7	U	Dibromochloromethane	1.7	U
Chloroethane	1.7	U	1,2-Dibromoethane	1.7	U
Trichlorofluoromethane	1.7	U	Chlorobenzene	1.7	U
Acetone	**6.3**		1,1,1,2-Tetrachloroethane	1.7	U
1,1-Dichloroethene	1.7	U	Ethylbenzene	1.7	U
Carbon disulfide	1.7	U	p/m-Xylene	3.3	U
Methylene chloride	**1.5**	JB	o-Xylene	1.7	U
Methyl tert-butyl ether (MTBE)	1.7	U	Styrene	1.7	U
trans-1,2-Dichloroethene	1.7	U	Bromoform	1.7	U
1,1-Dichloroethane	1.7	U	Isopropylbenzene	1.7	U
Vinyl acetate	1.7	U	1,1,2,2-Tetrachloroethane	1.7	U
2-Butanone (MEK)	1.7	U	Bromobenzene	1.7	U
cis-1,2-Dichloroethene	1.7	U	1,2,3-Trichloropropane	1.7	U
2,2-Dichloropropane	1.7	U	n-Propylbenzene	1.7	U
Chloroform	1.7	U	2-Chlorotoluene	1.7	U
1,1,1-Trichloroethane	1.7	U	1,3,5-Trimethylbenzene	1.7	U
1,1-Dichloropropene	1.7	U	4-Chlorotoluene	1.7	U
Carbon tetrachloride	1.7	U	tert-Butylbenzene	1.7	U
Benzene	1.7	U	1,2,4-Trimethylbenzene	1.7	U
1,2-Dichloroethane	1.7	U	sec-Butylbenzene	1.7	U
Trichloroethene	1.7	U	1,3-Dichlorobenzene	1.7	U
1,2-Dichloropropane	1.7	U	p-Isopropyltoluene	1.7	U
Dibromomethane	1.7	U	1,4-Dichlorobenzene	1.7	U
Bromodichloromethane	1.7	U	n-Butylbenzene	1.7	U
2-Chloroethylvinyl ether	1.7	U	1,2-Dichlorobenzene	1.7	U
Methyl isobutyl ketone (MIBK)	1.7	U	1,2-Dibromo-3-chloropropane	1.7	U
cis-1,3-Dichloropropene	1.7	U	1,2,4-Trichlorobenzene	1.7	U
Toluene	1.7	U	Hexachlorobutadiene	1.7	U
trans-1,3-Dichloropropene	1.7	U	Naphthalene	1.7	U
1,1,2-Trichloroethane	1.7	U	1,2,3-Trichlorobenzene	1.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	92	84-108
Toluene-d8	100	87-108
4-Bromofluorobenzene	100	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Trip Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-15**
Associated Blank: **B2032702**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	100.0	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**3.8**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**3.8**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	91	84-108
Toluene-d8	100	87-108
4-Bromofluorobenzene	99	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **B2032702**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/27/01	100.0	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	5.0	U	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**3.5**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	84-108
Toluene-d8	100	87-108
4-Bromofluorobenzene	98	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **See Below**
Associated Blank: **B2032702**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100.0	JAD

Lab ID: B2032702 Q2032701 Q2032702

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	20	98	21	107	8	30	69-148
Benzene	2.0	U	21	104	21	107	2	30	74-136
Trichloroethene	2.0	U	20	99	20	102	3	26	74-139
Toluene	2.0	U	21	103	21	107	4	27	66-139
Chlorobenzene	2.0	U	21	103	21	106	3	30	78-130

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	98	99	84-108
Toluene-d8	100	99	87-108
4-Bromofluorobenzene	100	101	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SP5-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-01**
Associated Blank: **PS0326B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/26/01	03/28/01	93.4	20.2	10	1	NLJr

Parameter	Result
Aroclor 1016	26 U
Aroclor 1221	26 U
Aroclor 1232	26 U
Aroclor 1242	26 U
Aroclor 1248	26 U
Aroclor 1254	26 U
Aroclor 1260	26 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	89	30-150
Tetrachloro-meta-xylene	77	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SP6-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-02**
Associated Blank: **PS0326B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/26/01	03/28/01	92.8	20.21	10	1	NLJr

Parameter	Result
Aroclor 1016	27 U
Aroclor 1221	27 U
Aroclor 1232	27 U
Aroclor 1242	27 U
Aroclor 1248	27 U
Aroclor 1254	**41**
Aroclor 1260	27 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	84	30-150
Tetrachloro-meta-xylene	73	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **PS0326B2**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/26/01	03/28/01	100.0	20	10	1	NLJr

Parameter	Result
Aroclor 1016	25 U
Aroclor 1221	25 U
Aroclor 1232	25 U
Aroclor 1242	25 U
Aroclor 1248	25 U
Aroclor 1254	25 U
Aroclor 1260	25 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	100	30-150
Tetrachloro-meta-xylene	86	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **PS0326L2**
Associated Blank: **PS0326B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/26/01	100.0	NLJr

Parameter	Conc.	% Recovery	% Recovery Limits
Aroclor 1016	500	101	30-150
Aroclor 1260	480	96	30-150

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	102	30-150
Tetrachloro-meta-xylene	87	30-150

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SP5-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-01**
Associated Blank: **SS0327B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	03/28/01	93.4	20.22	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	530	U
2-Chloronaphthalene	260	U
2-Nitroaniline	530	U
Acenaphthylene	260	U
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U
3-Nitroaniline	530	U

Parameter	Result	
2,4-Dinitrophenol	530	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	530	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	530	U
4,6-Dinitro-2-methylphenol	530	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	530	U
Phenanthrene	**68**	J
Anthracene	260	U
Di-n-butylphthalate	260	U
Fluoranthene	**120**	J
Pyrene	**120**	J
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	**65**	J
Chrysene	**79**	J
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**57**	J
Benzo[k]fluoranthene	**51**	J
Benzo[a]pyrene	**61**	J
Indeno[1,2,3-cd]pyrene	260	U
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	260	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	84	25-121
Phenol-d5	88	24-113
Nitrobenzene-d5	84	23-120
2-Fluorobiphenyl	77	30-115
2,4,6-Tribromophenol	93	19-122
Terphenyl-d14	83	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SP6-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-02**
Associated Blank: **SS0327B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	03/28/01	92.8	20.31	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	530	U
2-Chloronaphthalene	260	U
2-Nitroaniline	530	U
Acenaphthylene	260	U
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U
3-Nitroaniline	530	U

Parameter	Result	
2,4-Dinitrophenol	530	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	530	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	530	U
4,6-Dinitro-2-methylphenol	530	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	530	U
Phenanthrene	**170**	J
Anthracene	**50**	J
Di-n-butylphthalate	260	U
Fluoranthene	**310**	
Pyrene	**280**	
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	**150**	J
Chrysene	**260**	J
bis(2-Ethylhexyl)phthalate	**67**	J
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**170**	J
Benzo[k]fluoranthene	**120**	J
Benzo[a]pyrene	**150**	J
Indeno[1,2,3-cd]pyrene	**100**	J
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	**110**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	85	25-121
Phenol-d5	89	24-113
Nitrobenzene-d5	80	23-120
2-Fluorobiphenyl	83	30-115
2,4,6-Tribromophenol	95	19-122
Terphenyl-d14	81	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-10SW-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-03**
Associated Blank: **SS0327B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	03/28/01	97.2	20.34	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	86	25-121
Phenol-d5	89	24-113
Nitrobenzene-d5	80	23-120
2-Fluorobiphenyl	78	30-115
2,4,6-Tribromophenol	91	19-122
Terphenyl-d14	81	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-11ESW-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-04**
Associated Blank: **SS0327B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	03/28/01	97.2	20.31	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	86	25-121
Phenol-d5	89	24-113
Nitrobenzene-d5	83	23-120
2-Fluorobiphenyl	82	30-115
2,4,6-Tribromophenol	90	19-122
Terphenyl-d14	86	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-12SSW-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-05**
Associated Blank: **SS0327B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	03/28/01	96.9	20.32	1	1	CLM

Parameter	Result		Parameter	Result	
bis(2-Chloroethyl)ether	250	U	2,4-Dinitrophenol	510	U
Phenol	250	U	Dibenzofuran	250	U
2-Chlorophenol	250	U	2,4-Dinitrotoluene	250	U
1,3-Dichlorobenzene	250	U	4-Nitrophenol	510	U
1,4-Dichlorobenzene	250	U	Fluorene	250	U
1,2-Dichlorobenzene	250	U	4-Chlorophenyl-phenylether	250	U
bis(2-chloroisopropyl)ether	250	U	Diethylphthalate	250	U
2-Methylphenol	250	U	4-Nitroaniline	510	U
Hexachloroethane	250	U	4,6-Dinitro-2-methylphenol	510	U
N-Nitroso-di-n-propylamine	250	U	n-Nitrosodiphenylamine	250	U
4-Methylphenol	250	U	4-Bromophenyl-phenylether	250	U
Nitrobenzene	250	U	Hexachlorobenzene	250	U
Isophorone	250	U	Pentachlorophenol	510	U
2-Nitrophenol	250	U	Phenanthrene	250	U
2,4-Dimethylphenol	250	U	Anthracene	250	U
bis(2-Chloroethoxy)methane	250	U	Di-n-butylphthalate	250	U
2,4-Dichlorophenol	250	U	Fluoranthene	250	U
1,2,4-Trichlorobenzene	250	U	Pyrene	250	U
Naphthalene	250	U	Butylbenzylphthalate	250	U
4-Chloroaniline	250	U	3,3'-Dichlorobenzidine	250	U
Hexachlorobutadiene	250	U	Carbazole	250	U
4-Chloro-3-methylphenol	250	U	Benz[a]anthracene	250	U
2-Methylnaphthalene	250	U	Chrysene	250	U
Hexachlorocyclopentadiene	250	U	bis(2-Ethylhexyl)phthalate	250	U
2,4,6-Trichlorophenol	250	U	Di-n-octylphthalate	250	U
2,4,5-Trichlorophenol	510	U	Benzo[b]fluoranthene	250	U
2-Chloronaphthalene	250	U	Benzo[k]fluoranthene	250	U
2-Nitroaniline	510	U	Benzo[a]pyrene	250	U
Acenaphthylene	250	U	Indeno[1,2,3-cd]pyrene	250	U
Dimethylphthalate	250	U	Dibenz[a,h]anthracene	250	U
2,6-Dinitrotoluene	250	U	Benzo[g,h,i]perylene	250	U
Acenaphthene	250	U			
3-Nitroaniline	510	U			

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	82	25-121
Phenol-d5	87	24-113
Nitrobenzene-d5	83	23-120
2-Fluorobiphenyl	76	30-115
2,4,6-Tribromophenol	86	19-122
Terphenyl-d14	76	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-15SW-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-07**
Associated Blank: **SS0327B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	03/28/01	97.0	20.32	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	72	25-121
Phenol-d5	99	24-113
Nitrobenzene-d5	93	23-120
2-Fluorobiphenyl	81	30-115
2,4,6-Tribromophenol	82	19-122
Terphenyl-d14	89	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-16WSW-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **45608-08**
Associated Blank: **SS0327B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/26/01	03/26/01	03/27/01	03/28/01	97.0	20.33	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	68	25-121
Phenol-d5	91	24-113
Nitrobenzene-d5	92	23-120
2-Fluorobiphenyl	77	30-115
2,4,6-Tribromophenol	79	19-122
Terphenyl-d14	87	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **SS0327B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/27/01	03/28/01	100.0	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	500	U

Parameter	Result	
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	90	25-121
Phenol-d5	94	24-113
Nitrobenzene-d5	85	23-120
2-Fluorobiphenyl	83	30-115
2,4,6-Tribromophenol	90	19-122
Terphenyl-d14	90	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **SS0327L1**
Associated Blank: **SS0327B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/27/01	100.0	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	8100	81	26-90
2-Chlorophenol	8400	84	25-102
1,4-Dichlorobenzene	3700	74	28-104
N-Nitroso-di-n-propylamine	4300	86	41-126
1,2,4-Trichlorobenzene	4000	80	38-107
4-Chloro-3-methylphenol	10000	101	26-103
Acenaphthene	4000	81	31-137
2,4-Dinitrotoluene	3900	77	28-89
4-Nitrophenol	8600	86	11-114
Pentachlorophenol	7900	79	17-109
Pyrene	4200	83	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	87	25-121
Phenol-d5	87	24-113
Nitrobenzene-d5	81	23-120
2-Fluorobiphenyl	80	30-115
2,4,6-Tribromophenol	94	19-122
Terphenyl-d14	80	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-15SW-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145608**
Lab ID: **See Below**
Associated Blank: **SS0327B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
03/26/01	03/26/01	03/27/01	97.0	CLM

Lab ID:	45608-07		45608-07		45608-07				
Parameter	**Sample Conc.**		**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Phenol	250	U	9800	96[a]	9600	95[a]	2	35	26-90
2-Chlorophenol	250	U	7000	69	6700	66	5	50	25-102
1,4-Dichlorobenzene	250	U	3600	71	3400	67	6	27	28-104
N-Nitroso-di-n-propylamine	250	U	3500	70	3300	65	7	38	41-126
1,2,4-Trichlorobenzene	250	U	3500	69	3500	69	0	23	38-107
4-Chloro-3-methylphenol	250	U	9900	97	9700	96	2	33	26-103
Acenaphthene	250	U	4900	98	4700	93	5	19	31-137
2,4-Dinitrotoluene	250	U	4300	85	3900	78	9	47	28-89
4-Nitrophenol	510	U	9600	95	8500	84	12	50	11-114
Pentachlorophenol	510	U	8700	86	7500	74	15	47	17-109
Pyrene	250	U	3300	65	3100	61	7	36	35-142

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
2-Fluorophenol	66	62	25-121
Phenol-d5	94	87	24-113
Nitrobenzene-d5	93	92	23-120
2-Fluorobiphenyl	81	75	30-115
2,4,6-Tribromophenol	82	75	19-122
Terphenyl-d14	87	79	18-137

[a] - Value outside of QC Limits.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	Bldg A-85
ETR:	00145596
Report Date:	03/26/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45596
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerard R. Burhan Date: 3-23-01
Woods Hole Group Environmental Laboratories

\\WGHLAB\SYS\SHARED\NARRTEMP\FOSWHE\45596.dot

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767
TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA 02110
Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: SUE LEACH / KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/21/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	NUMBER OF CONTAINERS
-1	SBNL14-A1-1S-A	3/21/01	1240	COMPOSITE	SOIL	RCRA 8		1
-2	A1-2S-A	↓	1245	↓	↓	SVOC, RCRA 8		↓
-3	A1-3S-A	↓	1250	↓	↓	RCRA 8		↓
-4	A1-4S-A	↓	1255	↓	↓	SVOC, RCRA 8		↓
-5	A1-5S-A	↓	1300	↓	↓	SVOC, RCRA 8		↓
-6	A1-6S-A	↓	1305	↓	↓	SVOC, RCRA 8		↓
-7	A1-7SS-A	↓	1310	↓	↓	SVOC, RCRA 8		↓
-8	A1-8SS-A	↓	1315	↓	↓	RCRA 8		↓
-9	A1-9S-A	↓	1320	↓	↓	RCRA 8		↓
-10	A2-S-A	↓	1000	↓	↓	SVOC, RCRA 8		↓

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. Whit	3/21/01	1710	Nancy A Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Woods Hole Group
Environmental Laboratories

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Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: SUE LEACH/KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLOG. A-85
Project Number: B014
P.O. #: 037831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/21/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ 48 Hr — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz GLASS / ICE					
45596-11	SBNL14-A3-2SW-A	3/21/01 ~~1005~~	1005	COMPOSITE	SOIL	RCRA 8	1					
-12	A3-4ESW-A		1015			SVOC, RCRA 8						
-13	A3-5ESW-A		1020			RCRA 8						
-14	A3-6SSW-A		1025			RCRA 8						
-15	A3-7WSW-A		1030			SVOC, RCRA 8						
-16	A3-8WSW-A		1035			RCRA 8						
-17	A3-9WSW-A		1040			RCRA 8						
-18	A3-10WSW-A		1045			SVOC, RCRA 8						
-19	A3-11SSW-A		1050			RCRA 8						
-20	SP 1-A		1400			TPH (GC)						

NUMBER OF CONTAINERS

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. White	3/21/01	~~3/17~~ NAF 1:10	Nancy Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.: MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

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COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. #: 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/21/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day — 48 Hr ✓ — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/ PRESERVATIVE (NOTE 4): 8oz / GLASS / ICE					
4556211	SBNL14-SP2-A	3/21/01	1405	COMPOSITE	SOIL	TPH (GC)	NUMBER OF CONTAINERS: 1					
22	SP3-A	↓	1410	↓	↓	↓	↓					
23	SP4-A	↓	1415	↓	↓	↓	↓					

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. Whitten	3/21/01	1710	Nancy A Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:

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Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145596-01	SBNL14-A1-1S-A	SOIL	03/21/2001 12:40:00 PM	03/21/2001 5:10:00 PM

Lab Testing:

Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Selenium - 6020
Silver - 6020

0145596-02	SBNL14-A1-2S-A	SOIL	03/21/2001 12:45:00 PM	03/21/2001 5:10:00 PM

Lab Testing:

8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Selenium - 6020
Silver - 6020

0145596-03	SBNL14-A1-3S-A	SOIL	03/21/2001 12:50:00 PM	03/21/2001 5:10:00 PM

Lab Testing:

Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

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Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-04	SBNL14-A1-4S-A	SOIL	03/21/2001 12:55:00 PM	03/21/2001 5:10:00 PM
	Lab Testing: 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-05	SBNL14-A1-5S-A	SOIL	03/21/2001 1:00:00 PM	03/21/2001 5:10:00 PM
	Lab Testing: 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020			

Sample Inventory

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Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Silver - 6020			
0145596-06	SBNL14-A1-6S-A	SOIL	03/21/2001 1:05:00 PM	03/21/2001 5:10:00 PM
	Lab Testing:			
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Selenium - 6020			
	Silver - 6020			
0145596-07	SBNL14-A1-7SS-A	SOIL	03/21/2001 1:10:00 PM	03/21/2001 5:10:00 PM
	Lab Testing:			
	8270C Semivolatile Organics by GC/MS			
	Arsenic - 6020			
	Barium - 6020			
	Cadmium - 6020			
	Chromium - 6020			
	Digestion - 3050:1T			
	Digestion - 3050:2T			
	Lead - 6020			
	Mercury - 7471			
	Metals Analysis			
	Selenium - 6020			
	Silver - 6020			
0145596-08	SBNL14-A1-8SS-A	SOIL	03/21/2001 1:15:00 PM	03/21/2001 5:10:00 PM
	Lab Testing:			
	Arsenic - 6020			
	Barium - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145596
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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-09	SBNL14-A1-9S-A	SOIL	03/21/2001 1:20:00 PM	03/21/2001 5:10:00 PM
	Lab Testing: Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-10	SBNL14-A2-S-A	SOIL	03/21/2001 10:00:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020			
0145596-11	SBNL14-A3-2SW-A	SOIL	03/21/2001 10:05:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-12	SBNL14-A3-4ESW-A	SOIL	03/21/2001 10:15:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-13	SBNL14-A3-5ESW-A	SOIL	03/21/2001 10:20:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: Arsenic - 6020 Barium - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-14	SBNL14-A3-6SSW-A	SOIL	03/21/2001 10:25:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-15	SBNL14-A3-7WSW-A	SOIL	03/21/2001 10:30:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Selenium - 6020 Silver - 6020			
0145596-16	SBNL14-A3-8WSW-A	SOIL	03/21/2001 10:35:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-17	SBNL14-A3-9WSW-A	SOIL	03/21/2001 10:40:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-18	SBNL14-A3-10WSW-A	SOIL	03/21/2001 10:45:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: 8270C Semivolatile Organics by GC/MS Arsenic - 6020 Barium - 6020			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-19	SBNL14-A3-11SSW-A	SOIL	03/21/2001 10:50:00 AM	03/21/2001 5:10:00 PM
	Lab Testing: Arsenic - 6020 Barium - 6020 Cadmium - 6020 Chromium - 6020 Digestion - 3050:1T Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020			
0145596-20	SBNL14-SP1-A	SOIL	03/21/2001 2:00:00 PM	03/21/2001 5:10:00 PM
	Lab Testing: Total Petroleum Hydrocarbons by GC/FID			
0145596-21	SBNL14-SP2-A	SOIL	03/21/2001 2:05:00 PM	03/21/2001 5:10:00 PM
	Lab Testing: Total Petroleum Hydrocarbons by GC/FID			
0145596-22	SBNL14-SP3-A	SOIL	03/21/2001 2:10:00 PM	03/21/2001 5:10:00 PM
	Lab Testing: Total Petroleum Hydrocarbons by GC/FID			

Sample Inventory

Woods Hole Group Environmental Laboratories

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Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145596-23	SBNL14-SP4-A	SOIL	03/21/2001 2:15:00 PM	03/21/2001 5:10:00 PM

Lab Testing:

Total Petroleum Hydrocarbons by GC/FID

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

Sample ID: SBNL14-A1-5S-A
Lab ID: 0145596-05
Matrix: SOIL
% SOLIDS: 98%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Selenium, Total	0.14	U	mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.028	U	mg/kg dry	5	0.028	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A1-6S-A
Lab ID: 0145596-06
Matrix: SOIL
% SOLIDS: 98%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.43		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Barium, Total	11		mg/kg dry	5	0.057	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.028	U	mg/kg dry	5	0.028	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.3		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Lead, Total	2.1		mg/kg dry	5	0.28	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.012	U	mg/kg dry	1	0.012	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.14	U	mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A1-7SS-A
Lab ID: 0145596-07
Matrix: SOIL
% SOLIDS: 96%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	3.5		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	11		mg/kg dry	5	0.052	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.038		mg/kg dry	5	0.026	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.7		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	36		mg/kg dry	5	0.26	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.11		mg/kg dry	1	0.010	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.027	U	mg/kg dry	5	0.027	6020	03/22/2001	03/22/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

Sample ID: SBNL14-A1-3S-A
Lab ID: 0145596-03
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, Total	2.4		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.5		mg/kg dry	5	0.25	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.010	U	mg/kg dry	1	0.010	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.025	U	mg/kg dry	5	0.025	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A1-4S-A
Lab ID: 0145596-04
Matrix: SOIL
% SOLIDS: 98%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.35		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Barium, Total	11		mg/kg dry	5	0.055	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.068		mg/kg dry	5	0.027	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.1		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Lead, Total	2.7		mg/kg dry	5	0.27	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.015		mg/kg dry	1	0.012	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.14	U	mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.028	U	mg/kg dry	5	0.028	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A1-5S-A
Lab ID: 0145596-05
Matrix: SOIL
% SOLIDS: 98%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.32		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Barium, Total	13		mg/kg dry	5	0.054	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.027	U	mg/kg dry	5	0.027	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.4		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.6		mg/kg dry	5	0.27	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/22/2001	03/23/2001	LCP

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

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ETR: 00145596
Project: Bldg A-85

Sample ID: SBNL14-A1-1S-A
Lab ID: 0145596-01

Matrix: SOIL
% SOLIDS: 97%

Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.25		mg/kg dry	5	0.12	6020	03/22/2001	03/23/2001	LMR
Barium, Total	13		mg/kg dry	5	0.049	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.024	U	mg/kg dry	5	0.024	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.0		mg/kg dry	5	0.12	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.2		mg/kg dry	5	0.24	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.0096	U	mg/kg dry	1	0.0096	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.12	U	mg/kg dry	5	0.12	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.034		mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A1-2S-A
Lab ID: 0145596-02

Matrix: SOIL
% SOLIDS: 98%

Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.28		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	11		mg/kg dry	5	0.054	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.027	U	mg/kg dry	5	0.027	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.3		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.1		mg/kg dry	5	0.27	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A1-3S-A
Lab ID: 0145596-03

Matrix: SOIL
% SOLIDS: 97%

Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.36		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	13		mg/kg dry	5	0.050	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.025	U	mg/kg dry	5	0.025	6020	03/22/2001	03/23/2001	LMR

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N/A = Not Applicable
RL = Reporting Limit

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ETR: 00145596
Project: Bldg A-85

Sample ID: SBNL14-A1-8SS-A
Lab ID: 0145596-08
Matrix: SOIL
% SOLIDS: 98%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.33		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	12		mg/kg dry	5	0.052	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.2		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.7		mg/kg dry	5	0.26	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.027	U	mg/kg dry	5	0.027	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A1-9S-A
Lab ID: 0145596-09
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.30		mg/kg dry	5	0.12	6020	03/22/2001	03/23/2001	LMR
Barium, Total	11		mg/kg dry	5	0.049	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.024	U	mg/kg dry	5	0.024	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.6		mg/kg dry	5	0.12	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.3		mg/kg dry	5	0.24	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.016		mg/kg dry	1	0.012	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.12	U	mg/kg dry	5	0.12	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.028	U	mg/kg dry	5	0.028	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A2-S-A
Lab ID: 0145596-10
Matrix: SOIL
% SOLIDS: 95%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	4.6		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Barium, Total	38		mg/kg dry	5	0.058	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.051		mg/kg dry	5	0.029	6020	03/22/2001	03/23/2001	LMR

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N/A = Not Applicable
RL = Reporting Limit

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Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

Sample ID: SBNL14-A2-S-A
Lab ID: 0145596-10
Matrix: SOIL
% SOLIDS: 95%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, Total	13		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Lead, Total	8.0		mg/kg dry	5	0.29	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.013		mg/kg dry	1	0.012	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.14	U	mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.13		mg/kg dry	5	0.028	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A3-2SW-A
Lab ID: 0145596-11
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.22		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	11		mg/kg dry	5	0.051	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.1		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.0		mg/kg dry	5	0.26	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A3-4ESW-A
Lab ID: 0145596-12
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.24		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	13		mg/kg dry	5	0.053	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.7		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.2		mg/kg dry	5	0.26	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/22/2001	03/23/2001	LCP

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N/A = Not Applicable
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ETR: 00145596
Project: Bldg A-85

Sample ID: SBNL14-A3-4ESW-A
Lab ID: 0145596-12
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.025	U	mg/kg dry	5	0.025	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A3-5ESW-A
Lab ID: 0145596-13
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.22		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	15		mg/kg dry	5	0.053	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	3.0		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.2		mg/kg dry	5	0.26	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.027	U	mg/kg dry	5	0.027	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A3-6SSW-A
Lab ID: 0145596-14
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.56		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	13		mg/kg dry	5	0.050	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.025	U	mg/kg dry	5	0.025	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.6		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	2.7		mg/kg dry	5	0.25	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.012		mg/kg dry	1	0.012	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

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ETR: 00145596
Project: Bldg A-85

Sample ID: SBNL14-A3-7WSW-A
Lab ID: 0145596-15
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.21		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	14		mg/kg dry	5	0.051	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.025	U	mg/kg dry	5	0.025	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.0		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.2		mg/kg dry	5	0.25	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.010	U	mg/kg dry	1	0.010	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A3-8WSW-A
Lab ID: 0145596-16
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.32		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	12		mg/kg dry	5	0.051	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.025	U	mg/kg dry	5	0.025	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.7		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.8		mg/kg dry	5	0.25	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.010	U	mg/kg dry	1	0.010	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A3-9WSW-A
Lab ID: 0145596-17
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.28		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Barium, Total	14		mg/kg dry	5	0.056	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.028	U	mg/kg dry	5	0.028	6020	03/22/2001	03/23/2001	LMR

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N/A = Not Applicable
RL = Reporting Limit

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ETR: 00145596
Project: Bldg A-85

Sample ID: SBNL14-A3-9WSW-A
Lab ID: 0145596-17
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, Total	2.3		mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.2		mg/kg dry	5	0.28	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.14	U	mg/kg dry	5	0.14	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A3-10WSW-A
Lab ID: 0145596-18
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.19		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	12		mg/kg dry	5	0.051	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.025	U	mg/kg dry	5	0.025	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	2.1		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	1.1		mg/kg dry	5	0.25	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.0096	U	mg/kg dry	1	0.0096	7471	03/22/2001	03/23/2001	LCP
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

Sample ID: SBNL14-A3-11SSW-A
Lab ID: 0145596-19
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	0.62		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Barium, Total	13		mg/kg dry	5	0.052	6020	03/22/2001	03/23/2001	LMR
Cadmium, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/23/2001	LMR
Chromium, Total	4.4		mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Lead, Total	6.4		mg/kg dry	5	0.26	6020	03/22/2001	03/23/2001	LMR
Mercury, Total	0.047		mg/kg dry	1	0.011	7471	03/22/2001	03/23/2001	LCP

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145596
Project: Bldg A-85

Sample ID: SBNL14-A3-11SSW-A
Lab ID: 0145596-19

Matrix: SOIL
% SOLIDS: 97%

Date Collected: 03/21/2001
Date Received: 03/21/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	03/22/2001	03/23/2001	LMR
Silver, Total	0.026	U	mg/kg dry	5	0.026	6020	03/22/2001	03/22/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler
Project: Bldg A-85
ETR: 45596

Parameter	Sample ID	analysis date	Blank (ug/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	quali -fier
Arsenic	45596-01	03/23/01	<2.5	0.25	12	1.96	98	150	82	
Barium	45596-01	03/23/01	<1.0	13	8	215	97	832	91	
Cadmium	45596-01	03/23/01	<0.5	<0.024	0	1.96	100	60.7	81	
Chromium	45596-01	03/23/01	<2.5	2.0	5	215	101	161	83	
Lead	45596-01	03/23/01	<5.0	1.2	8	1.96	106	56.9	86	
Mercury	45596-01	03/23/01	<0.2	<0.0096	0	0.26	119	4.04	99	
Selenium	45596-01	03/23/01	<2.5	<0.12	0	1.96	104	73.4	88	
Silver	45596-01	03/23/01	<0.5	0.034	X	2.14	105	157	88	

Qualifiers & Notes:
B=Reported QC is for associated batch
RPD = relative percent difference
C= Sample spiked less than 0.25X sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.
V = LCS is within vendor limits.

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-2S-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **45596-02**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/21/01	03/21/01	03/21/01	03/22/01	97.7	20.15	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	**59**	**J**
Pyrene	**46**	**J**
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	76	25-121
Phenol-d5	83	24-113
Nitrobenzene-d5	72	23-120
2-Fluorobiphenyl	71	30-115
2,4,6-Tribromophenol	77	19-122
Terphenyl-d14	74	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-2S-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **See Below**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
03/21/01	03/21/01	03/21/01	97.7	CLM

Lab ID:		45596-02		45596-02		45596-02			
Parameter	**Sample Conc.**		**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Phenol	250	U	8500	84	8700	86	3	35	26-90
2-Chlorophenol	250	U	9100	89	8900	88	2	50	25-102
1,4-Dichlorobenzene	250	U	3700	73	3900	76	3	27	28-104
N-Nitroso-di-n-propylamine	250	U	4600	90	4500	89	1	38	41-126
1,2,4-Trichlorobenzene	250	U	4000	79	4200	83	5	23	38-107
4-Chloro-3-methylphenol	250	U	10000	100	10000	99	1	33	26-103
Acenaphthene	250	U	4000	78	4300	85	9	19	31-137
2,4-Dinitrotoluene	250	U	4000	79	4100	81	2	47	28-89
4-Nitrophenol	510	U	8400	82	8600	85	4	50	11-114
Pentachlorophenol	510	U	6000	59	7600	75	25	47	17-109
Pyrene	46		4300	83	4400	85	3	36	35-142

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
2-Fluorophenol	85	85	25-121
Phenol-d5	91	90	24-113
Nitrobenzene-d5	84	84	23-120
2-Fluorobiphenyl	77	80	30-115
2,4,6-Tribromophenol	89	90	19-122
Terphenyl-d14	84	84	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-4S-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **45596-04**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/21/01	03/21/01	03/21/01	03/22/01	98.1	20.12	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	**140**	J
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	**230**	J
Pyrene	**210**	J
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	**110**	J
Chrysene	**120**	J
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	**110**	J
Benzo[k]fluoranthene	**83**	J
Benzo[a]pyrene	**100**	J
Indeno[1,2,3-cd]pyrene	**58**	J
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	**58**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	84	25-121
Phenol-d5	88	24-113
Nitrobenzene-d5	84	23-120
2-Fluorobiphenyl	81	30-115
2,4,6-Tribromophenol	88	19-122
Terphenyl-d14	84	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-5S-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **45596-05**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/21/01	03/21/01	03/21/01	03/22/01	98.2	20.09	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	**80**	J
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	**720**	
Anthracene	**150**	J
Di-n-butylphthalate	250	U
Fluoranthene	**1100**	
Pyrene	**790**	
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	**190**	J
Benz[a]anthracene	**380**	
Chrysene	**390**	
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	**310**	
Benzo[k]fluoranthene	**290**	
Benzo[a]pyrene	**320**	
Indeno[1,2,3-cd]pyrene	**180**	J
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	**160**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	74	25-121
Phenol-d5	80	24-113
Nitrobenzene-d5	70	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	77	19-122
Terphenyl-d14	74	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-6S-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **45596-06**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/21/01	03/21/01	03/21/01	03/22/01	97.6	20.15	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	**100**	J
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	**200**	J
Pyrene	**160**	J
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	**91**	J
Chrysene	**99**	J
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	**84**	J
Benzo[k]fluoranthene	**62**	J
Benzo[a]pyrene	**82**	J
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	**48**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	79	25-121
Phenol-d5	83	24-113
Nitrobenzene-d5	76	23-120
2-Fluorobiphenyl	78	30-115
2,4,6-Tribromophenol	77	19-122
Terphenyl-d14	80	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A1-7SS-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **45596-07**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/21/01	03/21/01	03/21/01	03/22/01	96.4	20.05	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	520	U
2-Chloronaphthalene	260	U
2-Nitroaniline	520	U
Acenaphthylene	**230**	J
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U
3-Nitroaniline	520	U

Parameter	Result	
2,4-Dinitrophenol	520	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	520	U
Fluorene	**64**	J
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	520	U
4,6-Dinitro-2-methylphenol	520	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	520	U
Phenanthrene	**910**	
Anthracene	**190**	J
Di-n-butylphthalate	260	U
Fluoranthene	**1800**	
Pyrene	**1700**	
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	**100**	J
Benz[a]anthracene	**820**	
Chrysene	**990**	
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**880**	
Benzo[k]fluoranthene	**710**	
Benzo[a]pyrene	**840**	
Indeno[1,2,3-cd]pyrene	**490**	
Dibenz[a,h]anthracene	**120**	J
Benzo[g,h,i]perylene	**480**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	62	25-121
Phenol-d5	66	24-113
Nitrobenzene-d5	60	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	80	19-122
Terphenyl-d14	86	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A2-S-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **45596-10**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/21/01	03/21/01	03/21/01	03/22/01	95.3	20.04	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	520	U
2-Chloronaphthalene	260	U
2-Nitroaniline	520	U
Acenaphthylene	260	U
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U
3-Nitroaniline	520	U

Parameter	Result	
2,4-Dinitrophenol	520	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	520	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	520	U
4,6-Dinitro-2-methylphenol	520	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	520	U
Phenanthrene	260	U
Anthracene	260	U
Di-n-butylphthalate	260	U
Fluoranthene	**110**	J
Pyrene	**120**	J
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	**69**	J
Chrysene	**84**	J
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**81**	J
Benzo[k]fluoranthene	**79**	J
Benzo[a]pyrene	**77**	J
Indeno[1,2,3-cd]pyrene	260	U
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	260	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	82	25-121
Phenol-d5	85	24-113
Nitrobenzene-d5	77	23-120
2-Fluorobiphenyl	76	30-115
2,4,6-Tribromophenol	81	19-122
Terphenyl-d14	80	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-4ESW-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **45596-12**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/21/01	03/21/01	03/21/01	03/22/01	97.0	20.2	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	260	U
2-Nitroaniline	510	U
Acenaphthylene	260	U
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	510	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	510	U
Phenanthrene	260	U
Anthracene	260	U
Di-n-butylphthalate	260	U
Fluoranthene	260	U
Pyrene	260	U
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	260	U
Chrysene	260	U
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	260	U
Benzo[k]fluoranthene	260	U
Benzo[a]pyrene	260	U
Indeno[1,2,3-cd]pyrene	260	U
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	260	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	84	25-121
Phenol-d5	88	24-113
Nitrobenzene-d5	77	23-120
2-Fluorobiphenyl	78	30-115
2,4,6-Tribromophenol	78	19-122
Terphenyl-d14	83	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-7WSW-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **45596-15**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/21/01	03/21/01	03/21/01	03/22/01	97.0	20.05	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	260	U
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	260	U
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	260	U
2-Nitroaniline	510	U
Acenaphthylene	260	U
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	260	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	260	U
2,4-Dinitrotoluene	260	U
4-Nitrophenol	510	U
Fluorene	260	U
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	510	U
Phenanthrene	260	U
Anthracene	260	U
Di-n-butylphthalate	260	U
Fluoranthene	260	U
Pyrene	260	U
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	260	U
Benz[a]anthracene	260	U
Chrysene	260	U
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	260	U
Benzo[k]fluoranthene	260	U
Benzo[a]pyrene	260	U
Indeno[1,2,3-cd]pyrene	260	U
Dibenz[a,h]anthracene	260	U
Benzo[g,h,i]perylene	260	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	77	25-121
Phenol-d5	81	24-113
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	78	19-122
Terphenyl-d14	85	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-A3-10WSW-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **45596-18X**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/21/01	03/21/01	03/23/01	03/24/01	96.9	20.28	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	510	U
2-Chloronaphthalene	250	U
2-Nitroaniline	510	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	510	U

Parameter	Result	
2,4-Dinitrophenol	510	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	510	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	510	U
4,6-Dinitro-2-methylphenol	510	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	510	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	71	25-121
Phenol-d5	76	24-113
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	63	30-115
2,4,6-Tribromophenol	75	19-122
Terphenyl-d14	66	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **SS0321B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/21/01	03/22/01	100.0	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	500	U

Parameter	Result	
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	92	25-121
Phenol-d5	96	24-113
Nitrobenzene-d5	89	23-120
2-Fluorobiphenyl	86	30-115
2,4,6-Tribromophenol	88	19-122
Terphenyl-d14	88	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **SS0323B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/23/01	03/24/01	100.0	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	500	U

Parameter	Result	
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	80	25-121
Phenol-d5	87	24-113
Nitrobenzene-d5	80	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	77	19-122
Terphenyl-d14	78	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **SS0321L1**
Associated Blank: **SS0321B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/21/01	100.0	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	7300	73	26-90
2-Chlorophenol	7600	76	25-102
1,4-Dichlorobenzene	3200	64	28-104
N-Nitroso-di-n-propylamine	3800	76	41-126
1,2,4-Trichlorobenzene	3500	69	38-107
4-Chloro-3-methylphenol	8700	87	26-103
Acenaphthene	3500	70	31-137
2,4-Dinitrotoluene	3600	72	28-89
4-Nitrophenol	7500	75	11-114
Pentachlorophenol	6700	67	17-109
Pyrene	3700	75	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	75	25-121
Phenol-d5	77	24-113
Nitrobenzene-d5	69	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	73	19-122
Terphenyl-d14	75	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145596**
Lab ID: **SS0323L1**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/23/01	100.0	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	6600	66	26-90
2-Chlorophenol	6600	66	25-102
1,4-Dichlorobenzene	2800	55	28-104
N-Nitroso-di-n-propylamine	3200	63	41-126
1,2,4-Trichlorobenzene	3100	62	38-107
4-Chloro-3-methylphenol	8000	80	26-103
Acenaphthene	3100	62	31-137
2,4-Dinitrotoluene	3000	61	28-89
4-Nitrophenol	6900	69	11-114
Pentachlorophenol	5800	58	17-109
Pyrene	3200	63	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	70	25-121
Phenol-d5	70	24-113
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	61	30-115
2,4,6-Tribromophenol	70	19-122
Terphenyl-d14	63	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental Corp.

ETR Number: 45596

Lab ID Number: 45596-20

Project: Bldg A-85

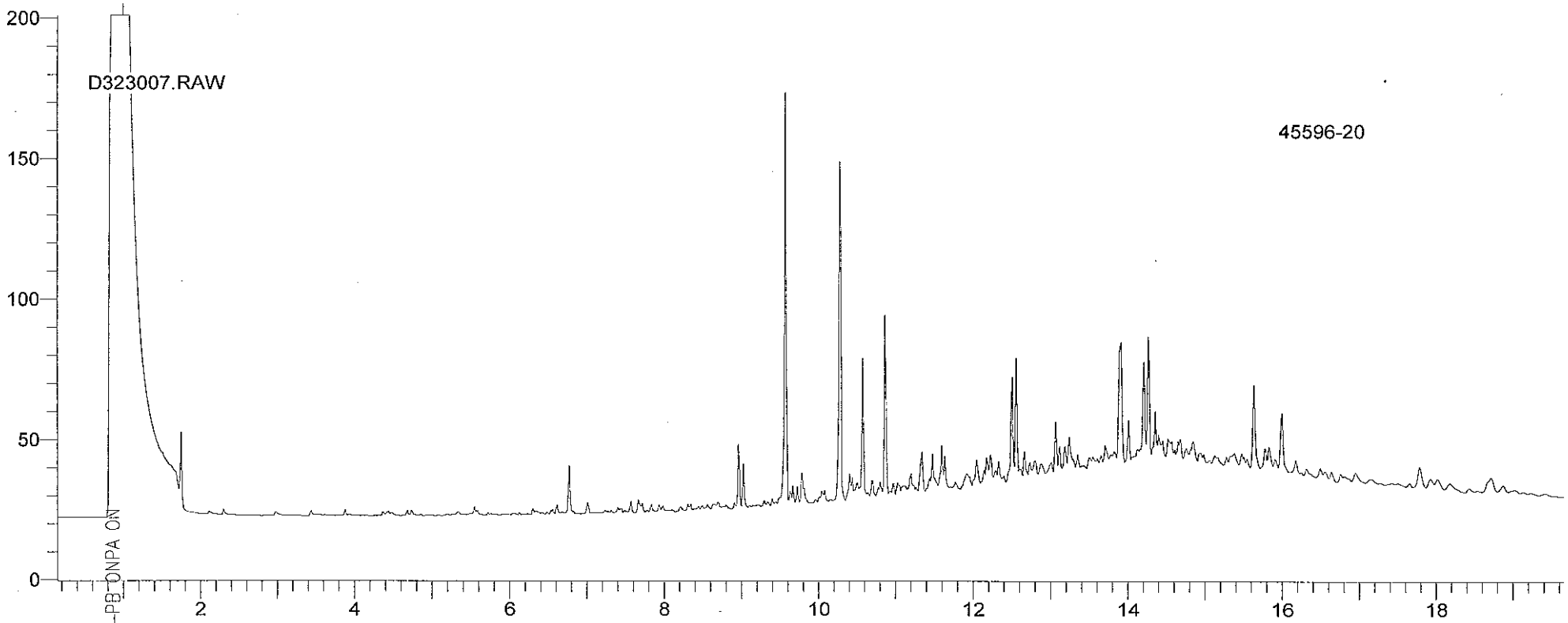
Sample ID: SBNL14-SP1-A							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
03/21/01	03/21/01	03/23/01	MLS	1	SOIL	TS0321B1	91%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	11
C19-C36 Hydrocarbons	140
Total Petroleum Hydrocarbons	150

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	95%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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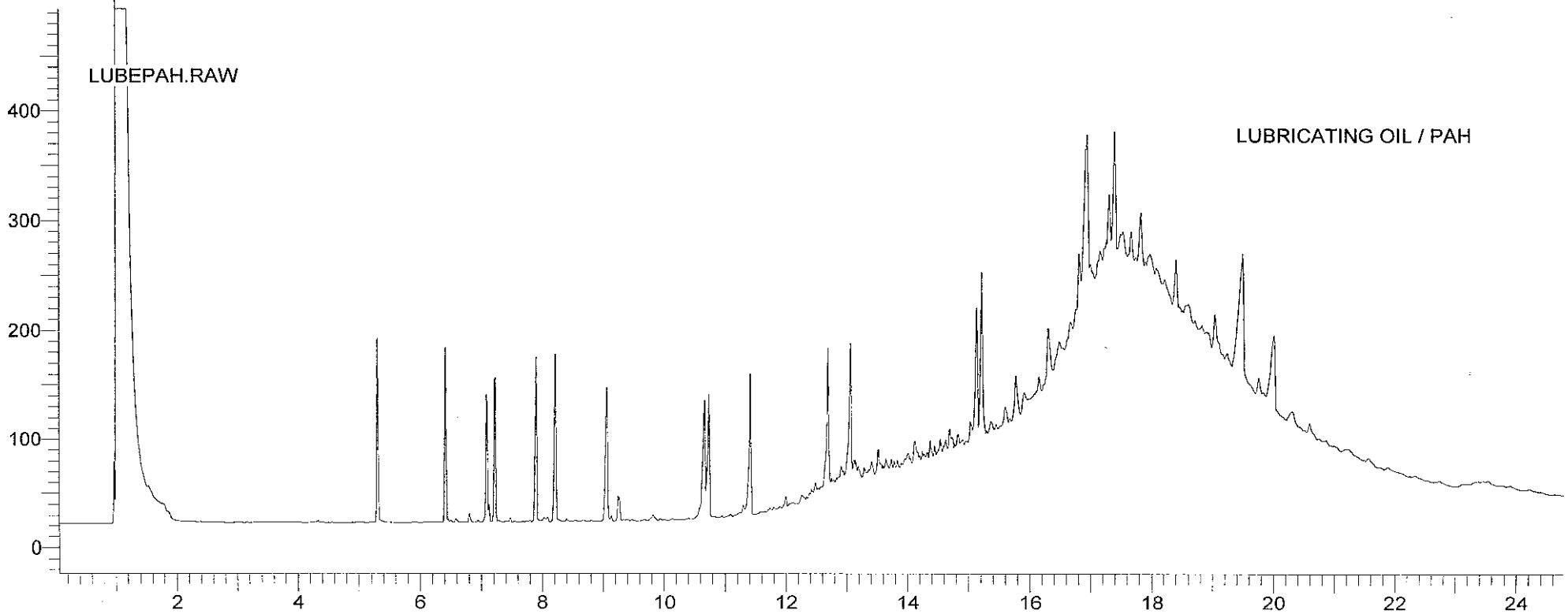
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LUBRICATING OIL / PAH
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Woods Hole Group
Environmental Laboratories
375 Paramount Drive • Suite 2
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental Corp. **ETR Number:** 45596

Lab ID Number: 45596-21

Project: **Bldg A-85**

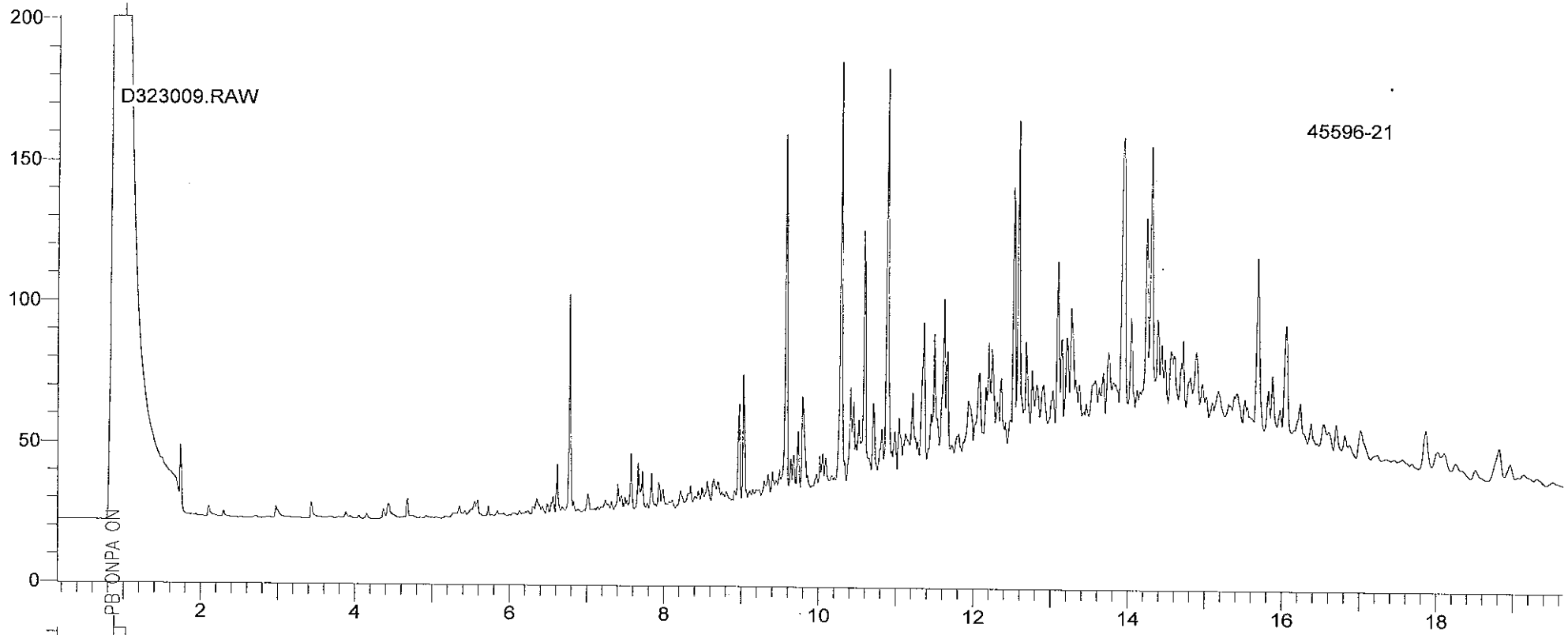
Sample ID:	**SBNL14-SP2-A**						
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
03/21/01	03/21/01	03/23/01	MLS	1	SOIL	TS0321B1	90%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	37
C19-C36 Hydrocarbons	350
Total Petroleum Hydrocarbons	390

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	107%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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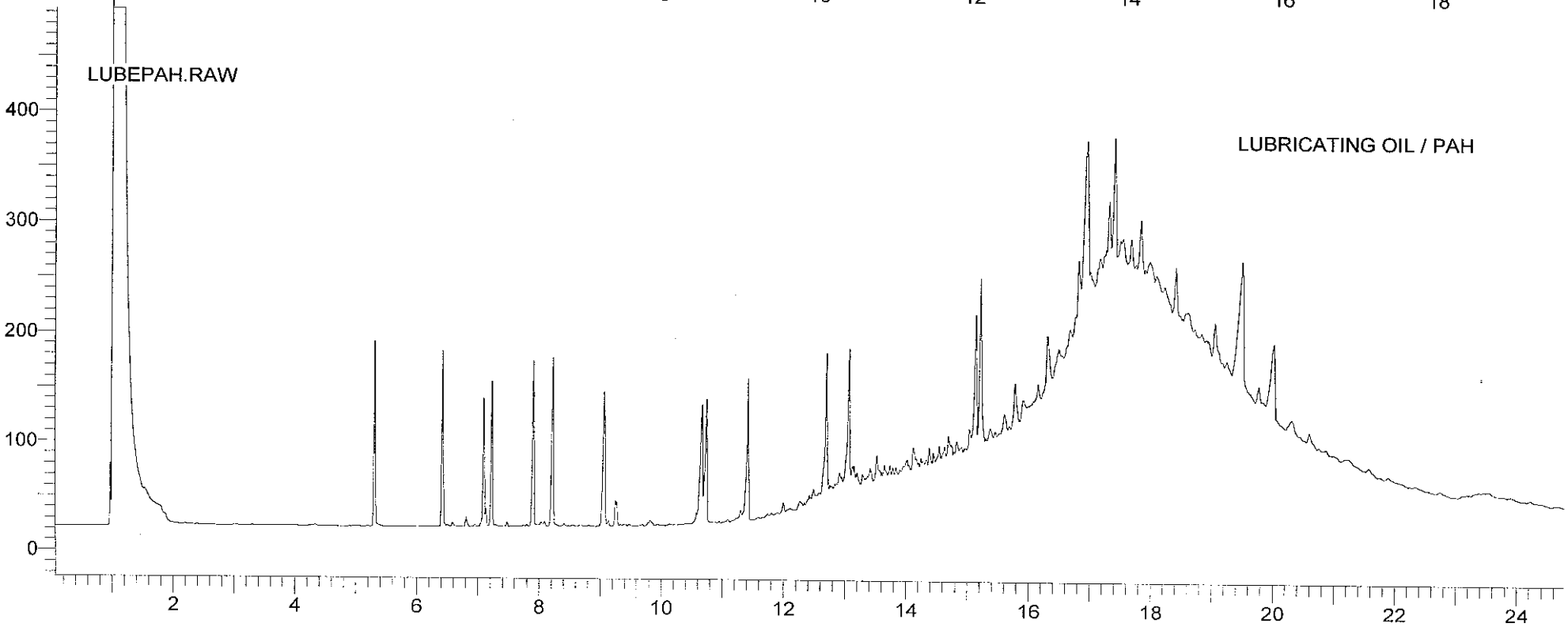
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Phone: 508-822-9300
Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental Corp. **ETR Number:** 45596

Lab ID Number: 45596-22

Project: **Bldg A-85**

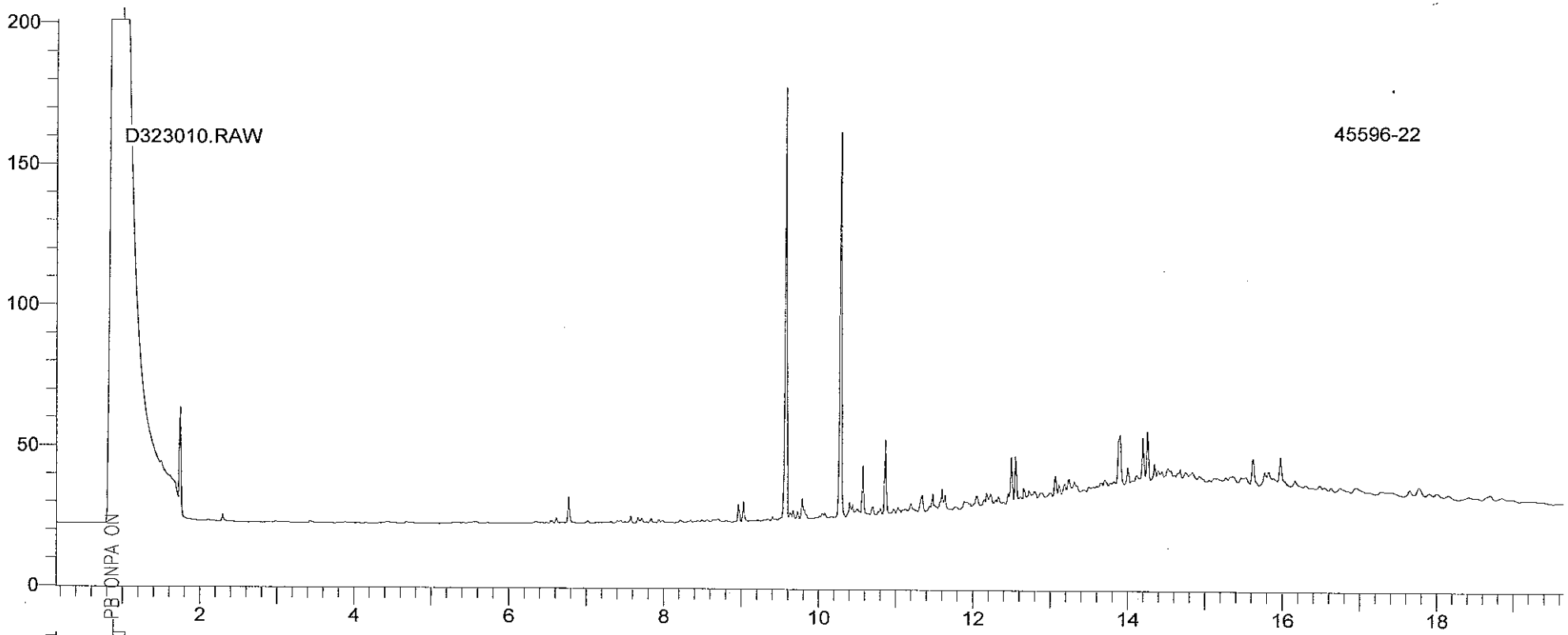
Sample ID: SBNL14-SP3-A							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
03/21/01	03/21/01	03/23/01	MLS	1	SOIL	TS0321B1	93%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	< 5.3
C19-C36 Hydrocarbons	80
Total Petroleum Hydrocarbons	80

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	97%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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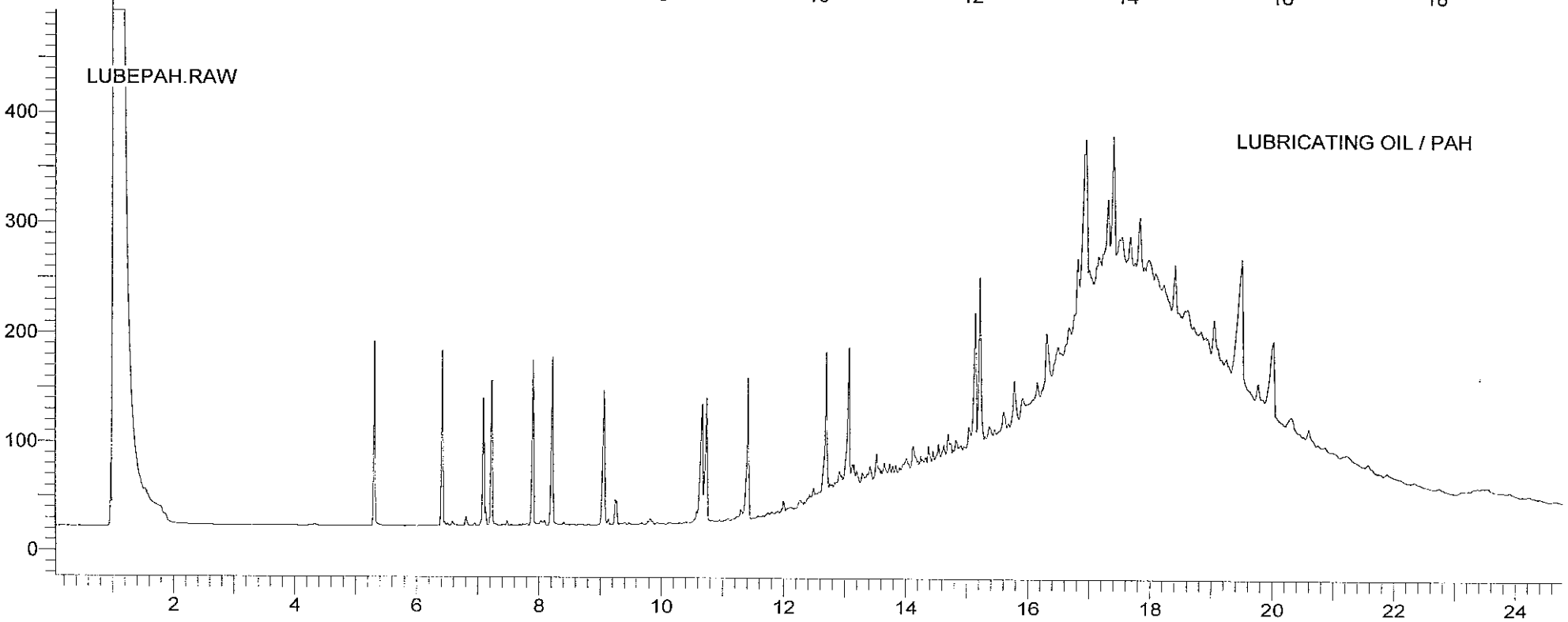
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LUBRICATING OIL / PAH
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375 Paramount Drive • Suite 2
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Phone: 508-822-9300
Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental Corp.

ETR Number: 45596

Lab ID Number: 45596-23

Project: Bldg A-85

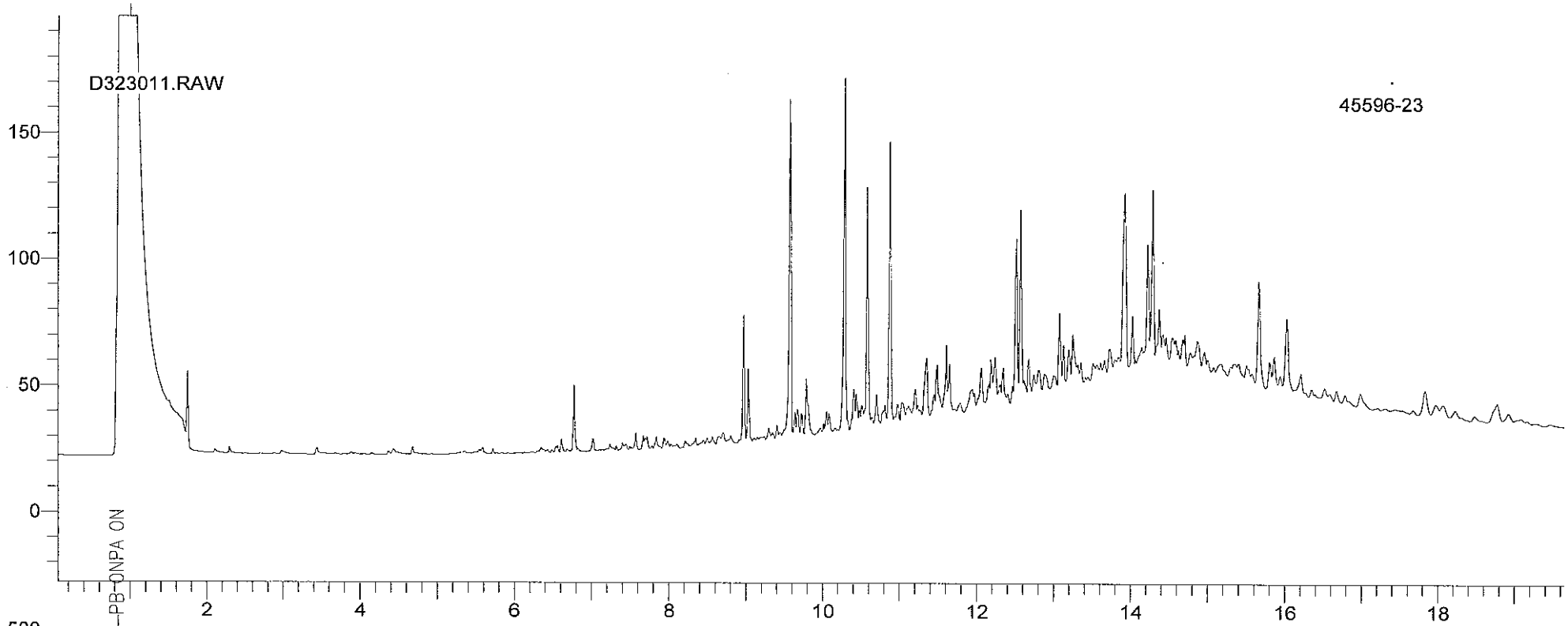
Sample ID: SBNL14-SP4-A							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
03/21/01	03/21/01	03/23/01	MLS	1	SOIL	TS0321B1	91%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	18
C19-C36 Hydrocarbons	240
Total Petroleum Hydrocarbons	260

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	99%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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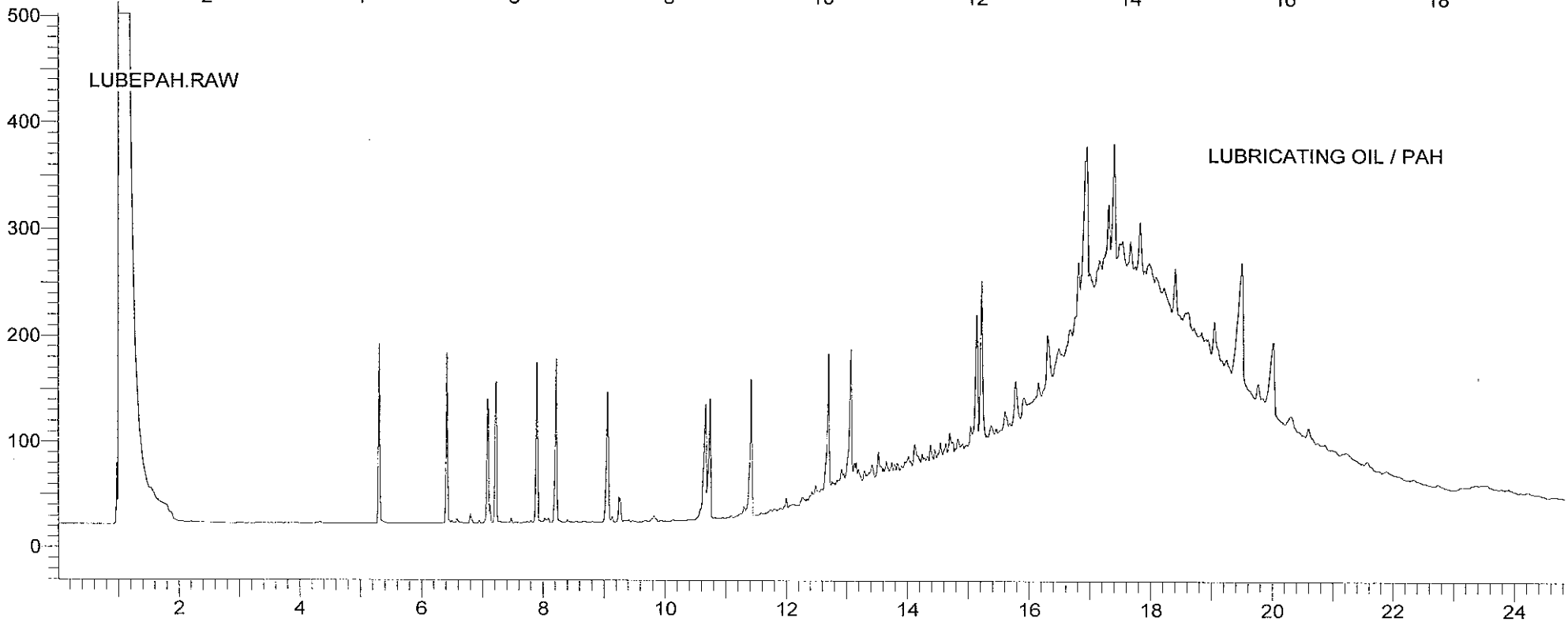
LUBEPAH.RAW
LUBRICATING OIL / PAH
500
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Woods Hole Group
Environmental Laboratories
375 Paramount Drive • Suite 2
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Quality Control Report

Lab ID Number: TS0321B1

Sample ID: Method Blank

Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	3/21/01	3/23/01	MLS	1	SOIL	N/A	100%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	< 5.0
C19-C36 Hydrocarbons	< 5.0
Total Petroleum Hydrocarbons	< 5.0

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	82%	25%-120%

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Phone: 508-822-9300
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Total Petroleum Hydrocarbons by GC/FID

Sample ID:	TS0321L1 Laboratory Control Spike						
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	3/21/01	3/23/01	MLS	1	SOIL	TS0321B1	100%

Parameter	Results in mg/Kg	% Recovery
DIESEL FUEL	438	88%

Amount Spiked: 500 mg/Kg

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	86%	25%-120%

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	Bldg. A-85
ETR:	00145982
Report Date:	06/27/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45982
Project: Bldg. A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

SPLP lead analysis was added to sample SBNL14-A1-5SSW (45982-06), on 6/20/01, by the client.

SPLP lead analysis was also added to sample SBNL14-A1-NESW (45982-04), however there was insufficient sample remaining to perform this analysis.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Samuel R. Johnson Date: 6-27-01
Woods Hole Group Environmental Laboratories

F:\REPORT\NARRTEMP\FOSWHE\45982.dot

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145982
Project: Bldg. A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145982-01	SBNL14-A2-NSW	SOIL	03/12/2001 1:30:00 PM	06/13/2001 9:37:00 AM
	Lab Testing:			
	Digestion, 3010:1T TCLP			
	Lead, TCLP			
	TCLP Metals Extraction			
0145982-02	SBNL14-A2-SSW	SOIL	03/12/2001 1:40:00 PM	06/13/2001 9:37:00 AM
	Lab Testing:			
	Chromium, TCLP			
	Digestion, 3010:1T TCLP			
	Lead, TCLP			
	TCLP Metals Extraction			
0145982-03	SBNL14-A2-WSW	SOIL	03/12/2001 1:45:00 PM	06/13/2001 9:37:00 AM
	Lab Testing:			
	Chromium, TCLP			
	Digestion, 3010:1T TCLP			
	Lead, TCLP			
	TCLP Metals Extraction			
0145982-04	SBNL14-A1-NESW	SOIL	03/14/2001 1:30:00 PM	06/13/2001 9:37:00 AM
	Lab Testing:			
	Digestion, 3010:1T TCLP			
	Lead, TCLP			
	TCLP Metals Extraction			
0145982-05	SBNL14-A1-1NSW	SOIL	03/14/2001 1:30:00 PM	06/13/2001 9:37:00 AM
	Lab Testing:			
	Arsenic - 6020			
	Arsenic, TCLP			
	Digestion - 3050:2T			
	Digestion, 3010:1T TCLP			
	Lead, TCLP			
	TCLP Metals Extraction			

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145982
Project: Bldg. A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145982-06	SBNL14-A1-5SSW	SOIL	03/14/2001 1:50:00 PM	06/13/2001 9:37:00 AM

Lab Testing:

Digestion, 3010:1T TCLP
Lead, SPLP
Lead, TCLP
SPLP Metals Extraction
TCLP Metals Extraction

0145982-07	SBNL14-A1-6SSW	SOIL	03/14/2001 1:55:00 PM	06/13/2001 9:37:00 AM

Lab Testing:

Digestion, 3010:1T TCLP
Lead, TCLP
TCLP Metals Extraction

0145982-08	SBNL14-A1-9NSW	SOIL	03/14/2001 2:10:00 PM	06/13/2001 9:37:00 AM

Lab Testing:

Chromium, TCLP
Digestion, 3010:1T TCLP
Lead, TCLP
TCLP Metals Extraction

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145982
Project: Bldg. A-85

Sample ID: SBNL14-A2-NSW
Lab ID: 0145982-01
Matrix: SOIL
% SOLIDS: 97%
Date Collected: 03/12/2001
Date Received: 06/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, Extractable	150	U	µg/L	1	150	6010B	06/15/2001	06/18/2001	CLM

Sample ID: SBNL14-A2-SSW
Lab ID: 0145982-02
Matrix: SOIL
% SOLIDS: 91%
Date Collected: 03/12/2001
Date Received: 06/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, Extractable	20	U	µg/L	1	20	6010B	06/15/2001	06/18/2001	CLM
Lead, Extractable	150	U	µg/L	1	150	6010B	06/15/2001	06/18/2001	CLM

Sample ID: SBNL14-A2-WSW
Lab ID: 0145982-03
Matrix: SOIL
% SOLIDS: 94%
Date Collected: 03/12/2001
Date Received: 06/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, Extractable	20	U	µg/L	1	20	6010B	06/15/2001	06/18/2001	CLM
Lead, Extractable	150	U	µg/L	1	150	6010B	06/15/2001	06/18/2001	CLM

Sample ID: SBNL14-A1-NESW
Lab ID: 0145982-04
Matrix: SOIL
% SOLIDS: 92%
Date Collected: 03/14/2001
Date Received: 06/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, Extractable	250		µg/L	1	150	6010B	06/15/2001	06/18/2001	CLM

Sample ID: SBNL14-A1-1NSW
Lab ID: 0145982-05
Matrix: SOIL
% SOLIDS: 89%
Date Collected: 03/14/2001
Date Received: 06/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Extractable	200	U	µg/L	1	200	6010B	06/15/2001	06/18/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145982
Project: Bldg. A-85

Sample ID: SBNL14-A1-1NSW
Lab ID: 0145982-05
Matrix: SOIL
% SOLIDS: 89%
Date Collected: 03/14/2001
Date Received: 06/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	78		mg/kg dry	5	0.16	6020	06/13/2001	06/14/2001	LMR
Lead, Extractable	150	U	µg/L	1	150	6010B	06/15/2001	06/18/2001	CLM

Sample ID: SBNL14-A1-5SSW
Lab ID: 0145982-06
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/14/2001
Date Received: 06/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, Extractable	300		µg/L	1	150	6010B	06/15/2001	06/18/2001	CLM
Lead, SPLP	150	U	µg/L	1	150	6010B	06/22/2001	06/27/2001	DJL

Sample ID: SBNL14-A1-6SSW
Lab ID: 0145982-07
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/14/2001
Date Received: 06/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, Extractable	150	U	µg/L	1	150	6010B	06/15/2001	06/18/2001	CLM

Sample ID: SBNL14-A1-9NSW
Lab ID: 0145982-08
Matrix: SOIL
% SOLIDS: 86%
Date Collected: 03/14/2001
Date Received: 06/13/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, Extractable	20	U	µg/L	1	20	6010B	06/15/2001	06/18/2001	CLM
Lead, Extractable	150	U	µg/L	1	150	6010B	06/15/2001	06/18/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	BLDG A-85
ETR:	00146053
Report Date:	07/12/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00146053
Project: BLDG A-85

Sample ID: A1-1NESW-A
Lab ID: 0146053-01
Matrix: SOIL
% SOLIDS: 96%
Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Extractable	200	U	µg/L	1	200	6010B	07/06/2001	07/06/2001	DJL

Sample ID: A1-1NSW-A
Lab ID: 0146053-02
Matrix: SOIL
% SOLIDS: 94%
Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	10	U	mg/kg dry	1	10	6010B	07/03/2001	07/12/2001	CLM
Lead, Total	16	U	mg/kg dry	1	16	6010B	07/03/2001	07/06/2001	CLM

Sample ID: BCF1-B
Lab ID: 0146053-03
Matrix: SOLID
% SOLIDS: 98%
Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, SPLP	150	U	µg/L	1	150	6010B	07/06/2001	07/12/2001	DJL

Sample ID: BCF2-A
Lab ID: 0146053-04
Matrix: SOLID
% SOLIDS: 95%
Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, SPLP	150	U	µg/L	1	150	6010B	07/06/2001	07/12/2001	DJL
Mercury, Extractable	.20	U	µg/L	2	0.20	7470	07/06/2001	07/06/2001	CCW
Silver, Extractable	20	U	µg/L	1	20	6010B	07/06/2001	07/06/2001	DJL

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00146053
Project: BLDG A-85

Sample ID: BCF3-A
Lab ID: 0146053-05

Matrix: SOLID
% SOLIDS: 98%

Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, SPLP	150	U	µg/L	1	150	6010B	07/06/2001	07/12/2001	DJL
Mercury, Extractable	0.20	U	µg/L	2	0.20	7470	07/06/2001	07/06/2001	CCW
Silver, Extractable	22		µg/L	1	20	6010B	07/06/2001	07/06/2001	DJL

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: BLDG A-85
ETR: 46053

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	Qualifier
Arsenic	46046-01	07/06/01	<200	<10	0	322	88	47.5	95	B
Lead	46046-01	07/06/01	<150	<16	0	322	87	186	95	B

Qualifiers & Notes:
B = Reported QC is for associated batch
LCS = laboratory control standard
RPD = relative percent difference
C= Not spiked >1/4 sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: BLDG A-85
ETR: 46053

SPLP

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (µg/L)	RPD of duplicates	MS added (µg/L)	%recovery matrix spike	LCS conc. (µg/L)	% recovery LCS	Qualifier
Arsenic	46053-05	07/06/01	<200	<200	0	1000	118	1000	92	
Lead	46053-05	07/06/01	<150	<150	0	1000	114	1000	90	
Mercury	46053-05	07/06/01	<0.20	<0.20	0	20	113	8.0	114	
Silver	46053-05	07/06/01	<20	22	4	400	109	400	104	

Qualifiers & Notes:
B = Reported QC is for associated batch
RPD = relative percent difference
C= Not spiked >1/4 of sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

Appendix D-5

Confirmatory Laboratory Analyses Results – Soil Beneath Wooden Sheds (SH)/ Bunker Floor Concrete Cracks (BCC)/Bunker Floor Concrete Staining (BCF)

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	Bldg A-85
ETR:	00145684
Report Date:	04/24/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45684
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Semi-Volatile Organics by GC/MS

1. Due to the basic nature of the concrete matrix of samples SBNL14-BCC-1 (45684-03), SBNL14-BCC-2 (45684-04), SBNL14-BCF-1 (45684-05), SBNL14-BCF-2 (45684-06) and SBNL14-BCF-3 (45684-07), some or all of the acid surrogates 2-Fluorophenol, Phenol-d5 and 2,4,6-Tribromophenol had percent recoveries below acceptable QC limits. In addition sample SBNL14-BCF-1 (45684-05), had the surrogate Terphenyl-d14 above acceptable QC limits due to matrix effects.

2. The original analysis of sample SBNL14-BCF-1 (45684-05) had concentrations for the compounds bis(2-Ethylhexyl)phthalate and Pyrene that exceeded the instrument calibration range. Due to this instrument saturation and matrix interference, the internal standard Chrysene-d12 was recovered outside of QC limits the result for Pyrene may be biased high due to the low recovery of this internal standard. This sample was reanalyzed at a 1:250 dilution (45684-05E) in order to report bis(2-Ethylhexyl)phthalate within instrument calibration range. All internal standard recoveries were within QC limits for this reanalysis; however, all surrogates were diluted out of the sample. Both analyses were reported to obtain the lowest reporting limit.

3. The compound 2,4-Dinitrotoluene was recovered at 94% in the Laboratory Control Sample, SS0417L1, and exceeds the upper QC limit of 89%. Additionally, this compound was recovered at 93% in the matrix spike duplicate for sample SBNL14-SH-WSS (45684-01). Since this represents a high bias, and since this compound was not detected in the any of the associated samples, re-extraction or reanalysis was not performed.

Metals

1. Sample SBNL14-SH-WSS (45684-01) was digested and analyzed in duplicate with a matrix spike. All QC measures were within acceptance criteria except for the following:

   Chromium: The RPD between duplicates was 39% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Copper: The RPD between duplicates was 40% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Lead: The RPD between duplicates was 31% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Nickel: The RPD between duplicates was 44% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

   Silver: The laboratory control sample was not within acceptance limits. The matrix spike recovery was 97%, which does meet quality control criteria of 75%-125%.

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Zinc: The RPD between duplicates was 61% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

Total Petroleum Hydrocarbons by GC/FID

The samples were analyzed by the TPH/GCFID method rather than the TPH/IR method that was requested by the client.

1. Sample SBNL14-BCF-1 (45684-05) was analyzed at a 1:2 dilution based on the high concentrations of non-target compounds detected in the semi-volatile analysis. The chromatography indicates the presence of non-hydrocarbon peaks.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Samuel R. Burkhart Date: 4-27-01
Woods Hole Group Environmental Laboratories

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767

TEL: (508) 822-9300
FAX: (508) 822-3288

PAGE 1 OF 1

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA. 02110

Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-0634
Contact Name: SUE LEACH / KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. #: 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 4/5/01
Quote #:

TAT ✓ (10 Day) — 5 Day — 3 Day — 48 Hr — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	40 mL / VOA / NaHSO4	40 mL / VOA / MeOH			
							NUMBER OF CONTAINERS					
45684-1	SBNL14-SH-WSS	4/5/01	1030	COMPOSITE	SOIL	TPH (IR), VOC, SVOC, PCB, RCRA8, PLUS NI, CU, ZN	1	2	1			
-2	SH-ESS	↓	1045	↓	↓	↓						
-3	BCC-1	↓	1100	GRAB	SOLID	↓						
-4	BCC-2	↓	1115	↓	↓	↓						
-5	BCF-1	↓	1130	↓	↓	↓						
-6	BCF-2	↓	1145	↓	↓	↓						
-7	BCF-3	↓	1200	↓	↓	↓						

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. White	4/5/01	16:20	G. R. [illegible]
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
TRIP BLANK INCLUDED

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145684
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145684-01	SBNL14-SH-WSS	SOIL	04/05/2001 10:30:00 AM	04/05/2001 4:20:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics by GC/MS Long List
8270C Semivolatile Organics by GC/MS
Total Petroleum Hydrocarbons by GC/FID
Arsenic - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
Zinc - 6020

0145684-02	SBNL14-SH-ESS	SOIL	04/05/2001 10:45:00 AM	04/05/2001 4:20:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics by GC/MS Long List
8270C Semivolatile Organics by GC/MS
Total Petroleum Hydrocarbons by GC/FID
Arsenic - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145684
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Silver - 6020 Zinc - 6020			
0145684-03	SBNL14-BCC-1	SOLID	04/05/2001 11:00:00 AM	04/05/2001 4:20:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics by GC/MS Long List
8270C Semivolatile Organics by GC/MS
Total Petroleum Hydrocarbons by GC/FID
Arsenic - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
Zinc - 6020

0145684-04	SBNL14-BCC-2	SOLID	04/05/2001 11:15:00 AM	04/05/2001 4:20:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics by GC/MS Long List
8270C Semivolatile Organics by GC/MS
Total Petroleum Hydrocarbons by GC/FID
Arsenic - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145684
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Nickel - 6020			
	Selenium - 6020			
	Silver - 6020			
	Zinc - 6020			
0145684-05	SBNL14-BCF-1	SOLID	04/05/2001 11:30:00 AM	04/05/2001 4:20:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics by GC/MS Long List
8270C Semivolatile Organics by GC/MS
Total Petroleum Hydrocarbons by GC/FID
Arsenic - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:2T
Lead - 6020
Mercury - 7471
Metals Analysis
Nickel - 6020
Selenium - 6020
Silver - 6020
Zinc - 6020

0145684-06	SBNL14-BCF-2	SOLID	04/05/2001 11:45:00 AM	04/05/2001 4:20:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics by GC/MS Long List
8270C Semivolatile Organics by GC/MS
Total Petroleum Hydrocarbons by GC/FID
Arsenic - 6020
Cadmium - 6020
Chromium - 6020
Copper - 6020
Digestion - 3050:2T
Lead - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145684
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 Zinc - 6020			
0145684-07	SBNL14-BCF-3	SOLID	04/05/2001 12:00:00 PM	04/05/2001 4:20:00 PM
	Lab Testing: 8082 PCB as Aroclors 8260B Volatile Organics by GC/MS Long List 8270C Semivolatile Organics by GC/MS Total Petroleum Hydrocarbons by GC/FID Arsenic - 6020 Cadmium - 6020 Chromium - 6020 Copper - 6020 Digestion - 3050:2T Lead - 6020 Mercury - 7471 Metals Analysis Nickel - 6020 Selenium - 6020 Silver - 6020 Zinc - 6020			
0145684-08	Trip Blank	SOIL	04/05/2001	04/05/2001 4:20:00 PM
	Lab Testing: 8260B Volatile Organics by GC/MS Long List			

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145684
Project: Bldg A-85

Sample ID: SBNL14-SH-WSS
Lab ID: 0145684-01
Matrix: SOIL
% SOLIDS: 95%
Date Collected: 04/05/2001
Date Received: 04/05/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.3		mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Cadmium, Total	0.037		mg/kg dry	5	0.037	6020	04/10/2001	04/12/2001	LMR
Chromium, Total	9.6		mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Copper, Total	29		mg/kg dry	5	0.37	6020	04/10/2001	04/12/2001	LMR
Lead, Total	3.0		mg/kg dry	5	0.37	6020	04/10/2001	04/12/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	04/11/2001	04/11/2001	DJL
Nickel, Total	11		mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Silver, Total	0.062	U	mg/kg dry	5	0.062	6020	04/10/2001	04/13/2001	CLM
Zinc, Total	24		mg/kg dry	5	0.74	6020	04/10/2001	04/12/2001	LMR

Sample ID: SBNL14-SH-ESS
Lab ID: 0145684-02
Matrix: SOIL
% SOLIDS: 96%
Date Collected: 04/05/2001
Date Received: 04/05/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	1.3		mg/kg dry	5	0.14	6020	04/10/2001	04/12/2001	LMR
Cadmium, Total	0.040		mg/kg dry	5	0.028	6020	04/10/2001	04/12/2001	LMR
Chromium, Total	10		mg/kg dry	5	0.14	6020	04/10/2001	04/12/2001	LMR
Copper, Total	23		mg/kg dry	5	0.28	6020	04/10/2001	04/12/2001	LMR
Lead, Total	2.8		mg/kg dry	5	0.28	6020	04/10/2001	04/12/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	04/11/2001	04/11/2001	DJL
Nickel, Total	8.5		mg/kg dry	5	0.14	6020	04/10/2001	04/12/2001	LMR
Selenium, Total	0.14	U	mg/kg dry	5	0.14	6020	04/10/2001	04/12/2001	LMR
Silver, Total	0.066	U	mg/kg dry	5	0.066	6020	04/10/2001	04/13/2001	CLM
Zinc, Total	19		mg/kg dry	5	0.55	6020	04/10/2001	04/12/2001	LMR

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145684
Project: Bldg A-85

Sample ID: SBNL14-BCC-1
Lab ID: 0145684-03

Matrix: SOLID
% SOLIDS: 98%

Date Collected: 04/05/2001
Date Received: 04/05/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	4.8		mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Cadmium, Total	0.036	U	mg/kg dry	5	0.036	6020	04/10/2001	04/12/2001	LMR
Chromium, Total	9.6		mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Copper, Total	6.8		mg/kg dry	5	0.36	6020	04/10/2001	04/12/2001	LMR
Lead, Total	2.9		mg/kg dry	5	0.36	6020	04/10/2001	04/12/2001	LMR
Mercury, Total	0.022		mg/kg dry	1	0.011	7471	04/11/2001	04/11/2001	DJL
Nickel, Total	8.0		mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Silver, Total	0.079	U	mg/kg dry	5	0.079	6020	04/10/2001	04/13/2001	CLM
Zinc, Total	16		mg/kg dry	5	0.71	6020	04/10/2001	04/12/2001	LMR

Sample ID: SBNL14-BCC-2
Lab ID: 0145684-04

Matrix: SOLID
% SOLIDS: 97%

Date Collected: 04/05/2001
Date Received: 04/05/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	6.2		mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Cadmium, Total	0.036	U	mg/kg dry	5	0.036	6020	04/10/2001	04/12/2001	LMR
Chromium, Total	13		mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Copper, Total	6.4		mg/kg dry	5	0.36	6020	04/10/2001	04/12/2001	LMR
Lead, Total	3.0		mg/kg dry	5	0.36	6020	04/10/2001	04/12/2001	LMR
Mercury, Total	0.011	U	mg/kg dry	1	0.011	7471	04/11/2001	04/11/2001	DJL
Nickel, Total	9.7		mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Selenium, Total	0.18	U	mg/kg dry	5	0.18	6020	04/10/2001	04/12/2001	LMR
Silver, Total	0.096		mg/kg dry	5	0.077	6020	04/10/2001	04/13/2001	CLM
Zinc, Total	19		mg/kg dry	5	0.71	6020	04/10/2001	04/12/2001	LMR

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145684
Project: Bldg A-85

Sample ID: SBNL14-BCF-1
Lab ID: 0145684-05

Matrix: SOLID
% SOLIDS: 98%

Date Collected: 04/05/2001
Date Received: 04/05/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	4.8		mg/kg dry	5	0.17	6020	04/10/2001	04/12/2001	LMR
Cadmium, Total	0.089		mg/kg dry	5	0.035	6020	04/10/2001	04/12/2001	LMR
Chromium, Total	16		mg/kg dry	5	0.17	6020	04/10/2001	04/12/2001	LMR
Copper, Total	12		mg/kg dry	5	0.35	6020	04/10/2001	04/12/2001	LMR
Lead, Total	11		mg/kg dry	5	0.35	6020	04/10/2001	04/12/2001	LMR
Mercury, Total	0.14		mg/kg dry	1	0.010	7471	04/11/2001	04/11/2001	DJL
Nickel, Total	12		mg/kg dry	5	0.17	6020	04/10/2001	04/12/2001	LMR
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	04/10/2001	04/12/2001	LMR
Silver, Total	0.21		mg/kg dry	5	0.074	6020	04/10/2001	04/13/2001	CLM
Zinc, Total	24		mg/kg dry	5	0.69	6020	04/10/2001	04/12/2001	LMR

Sample ID: SBNL14-BCF-2
Lab ID: 0145684-06

Matrix: SOLID
% SOLIDS: 98%

Date Collected: 04/05/2001
Date Received: 04/05/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	6.4		mg/kg dry	5	0.17	6020	04/10/2001	04/12/2001	LMR
Cadmium, Total	0.48		mg/kg dry	5	0.035	6020	04/10/2001	04/12/2001	LMR
Chromium, Total	14		mg/kg dry	5	0.17	6020	04/10/2001	04/12/2001	LMR
Copper, Total	16		mg/kg dry	5	0.35	6020	04/10/2001	04/12/2001	LMR
Lead, Total	22		mg/kg dry	5	0.35	6020	04/10/2001	04/12/2001	LMR
Mercury, Total	0.14		mg/kg dry	1	0.011	7471	04/11/2001	04/11/2001	DJL
Nickel, Total	11		mg/kg dry	5	0.17	6020	04/10/2001	04/12/2001	LMR
Selenium, Total	0.17	U	mg/kg dry	5	0.17	6020	04/10/2001	04/12/2001	LMR
Silver, Total	0.26		mg/kg dry	5	0.074	6020	04/10/2001	04/13/2001	CLM
Zinc, Total	31		mg/kg dry	5	0.69	6020	04/10/2001	04/12/2001	LMR

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145684
Project: Bldg A-85

Sample ID: SBNL14-BCF-3
Lab ID: 0145684-07

Matrix: SOLID
% SOLIDS: 99%

Date Collected: 04/05/2001
Date Received: 04/05/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	5.0		mg/kg dry	5	0.13	6020	04/10/2001	04/12/2001	LMR
Cadmium, Total	0.11		mg/kg dry	5	0.027	6020	04/10/2001	04/12/2001	LMR
Chromium, Total	13		mg/kg dry	5	0.13	6020	04/10/2001	04/12/2001	LMR
Copper, Total	15		mg/kg dry	5	0.27	6020	04/10/2001	04/12/2001	LMR
Lead, Total	50		mg/kg dry	5	0.27	6020	04/10/2001	04/12/2001	LMR
Mercury, Total	1.3		mg/kg dry	10	0.11	7471	04/11/2001	04/11/2001	DJL
Nickel, Total	10		mg/kg dry	5	0.13	6020	04/10/2001	04/12/2001	LMR
Selenium, Total	0.13	U	mg/kg dry	5	0.13	6020	04/10/2001	04/12/2001	LMR
Silver, Total	42		mg/kg dry	5	0.067	6020	04/10/2001	04/13/2001	CLM
Zinc, Total	28		mg/kg dry	5	0.53	6020	04/10/2001	04/12/2001	LMR

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: Bldg A-85
ETR: 45684

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	Qualifier
Arsenic	45684-01	04/12/01	<2.5	1.3	17	2.32	84	52.4	96	
Cadmium	45684-01	04/12/01	<0.5	0.037	X	2.32	94	59.7	96	
Chromium	45684-01	04/12/01	<2.5	9.6	39	261	99	30.9	105	N
Copper	45684-01	04/12/01	<5.0	30	40	261	90	134	96	N
Lead	45684-01	04/12/01	<5.0	3.0	31	2.32	82	74.3	88	N
Mercury	45684-01	04/11/01	<0.2	<0.011	0	0.28	114	3.94	106	
Nickel	45684-01	04/12/01	<2.5	11	44	261	93	105	99	N
Selenium	45684-01	04/12/01	<2.5	<0.18	0	2.32	92	53.2	105	
Silver	45684-01	04/13/01	<1.0	<0.062	0	2.32	97	54.5	150	N
Zinc	45684-01	04/12/01	<10	24	61	261	92	87.5	95	N

Qualifiers & Notes:
B = Reported QC is for associated batch
LCS = laboratory control standard
RPD = relative percent difference
C= Not spiked >1/4 sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SH-WSS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-01**
Associated Blank: **B2041902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/19/01	95.4	5.22	5	1	AJA

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	5.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**14**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**2.8**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	100	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SH-ESS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-02**
Associated Blank: **B2041902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/19/01	95.6	5.84	5	1	AJA

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	1.8	U	2-Hexanone	1.8	U
Chloromethane	1.8	U	Tetrachloroethene	1.8	U
Vinyl chloride	1.8	U	1,3-Dichloropropane	1.8	U
Bromomethane	4.5	U	Dibromochloromethane	1.8	U
Chloroethane	1.8	U	1,2-Dibromoethane	1.8	U
Trichlorofluoromethane	1.8	U	Chlorobenzene	1.8	U
Acetone	**9.4**	B	1,1,1,2-Tetrachloroethane	1.8	U
1,1-Dichloroethene	1.8	U	Ethylbenzene	1.8	U
Carbon disulfide	1.8	U	p/m-Xylene	3.6	U
Methylene chloride	**2.1**	JB	o-Xylene	1.8	U
Methyl tert-butyl ether (MTBE)	1.8	U	Styrene	1.8	U
trans-1,2-Dichloroethene	1.8	U	Bromoform	1.8	U
1,1-Dichloroethane	1.8	U	Isopropylbenzene	1.8	U
Vinyl acetate	1.8	U	1,1,2,2-Tetrachloroethane	1.8	U
2-Butanone (MEK)	1.8	U	Bromobenzene	1.8	U
cis-1,2-Dichloroethene	1.8	U	1,2,3-Trichloropropane	1.8	U
2,2-Dichloropropane	1.8	U	n-Propylbenzene	1.8	U
Chloroform	1.8	U	2-Chlorotoluene	1.8	U
1,1,1-Trichloroethane	1.8	U	1,3,5-Trimethylbenzene	1.8	U
1,1-Dichloropropene	1.8	U	4-Chlorotoluene	1.8	U
Carbon tetrachloride	1.8	U	tert-Butylbenzene	1.8	U
Benzene	1.8	U	1,2,4-Trimethylbenzene	1.8	U
1,2-Dichloroethane	1.8	U	sec-Butylbenzene	1.8	U
Trichloroethene	1.8	U	1,3-Dichlorobenzene	1.8	U
1,2-Dichloropropane	1.8	U	p-Isopropyltoluene	1.8	U
Dibromomethane	1.8	U	1,4-Dichlorobenzene	1.8	U
Bromodichloromethane	1.8	U	n-Butylbenzene	1.8	U
2-Chloroethylvinyl ether	1.8	U	1,2-Dichlorobenzene	1.8	U
Methyl isobutyl ketone (MIBK)	1.8	U	1,2-Dibromo-3-chloropropane	1.8	U
cis-1,3-Dichloropropene	1.8	U	1,2,4-Trichlorobenzene	1.8	U
Toluene	1.8	U	Hexachlorobutadiene	1.8	U
trans-1,3-Dichloropropene	1.8	U	Naphthalene	1.8	U
1,1,2-Trichloroethane	1.8	U	1,2,3-Trichlorobenzene	1.8	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	103	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCC-1**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-03**
Associated Blank: **B2041902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/19/01	97.9	5.49	5	1	AJA

Parameter	Result	
Dichlorodifluoromethane	1.9	U
Chloromethane	1.9	U
Vinyl chloride	1.9	U
Bromomethane	4.7	U
Chloroethane	1.9	U
Trichlorofluoromethane	**3.7**	
Acetone	**47**	B
1,1-Dichloroethene	1.9	U
Carbon disulfide	**1.9**	
Methylene chloride	**7.5**	B
Methyl tert-butyl ether (MTBE)	1.9	U
trans-1,2-Dichloroethene	1.9	U
1,1-Dichloroethane	1.9	U
Vinyl acetate	1.9	U
2-Butanone (MEK)	**7.6**	
cis-1,2-Dichloroethene	1.9	U
2,2-Dichloropropane	1.9	U
Chloroform	1.9	U
1,1,1-Trichloroethane	1.9	U
1,1-Dichloropropene	1.9	U
Carbon tetrachloride	1.9	U
Benzene	1.9	U
1,2-Dichloroethane	1.9	U
Trichloroethene	1.9	U
1,2-Dichloropropane	1.9	U
Dibromomethane	1.9	U
Bromodichloromethane	1.9	U
2-Chloroethylvinyl ether	1.9	U
Methyl isobutyl ketone (MIBK)	1.9	U
cis-1,3-Dichloropropene	1.9	U
Toluene	**1.1**	J
trans-1,3-Dichloropropene	1.9	U
1,1,2-Trichloroethane	1.9	U

Parameter	Result	
2-Hexanone	1.9	U
Tetrachloroethene	1.9	U
1,3-Dichloropropane	1.9	U
Dibromochloromethane	1.9	U
1,2-Dibromoethane	1.9	U
Chlorobenzene	1.9	U
1,1,1,2-Tetrachloroethane	1.9	U
Ethylbenzene	1.9	U
p/m-Xylene	1.9	U
o-Xylene	1.9	U
Styrene	1.9	U
Bromoform	1.9	U
Isopropylbenzene	1.9	U
1,1,2,2-Tetrachloroethane	1.9	U
Bromobenzene	1.9	U
1,2,3-Trichloropropane	1.9	U
n-Propylbenzene	1.9	U
2-Chlorotoluene	1.9	U
1,3,5-Trimethylbenzene	1.9	U
4-Chlorotoluene	1.9	U
tert-Butylbenzene	1.9	U
1,2,4-Trimethylbenzene	1.9	U
sec-Butylbenzene	1.9	U
1,3-Dichlorobenzene	1.9	U
p-Isopropyltoluene	1.9	U
1,4-Dichlorobenzene	1.9	U
n-Butylbenzene	1.9	U
1,2-Dichlorobenzene	1.9	U
1,2-Dibromo-3-chloropropane	1.9	U
1,2,4-Trichlorobenzene	1.9	U
Hexachlorobutadiene	1.9	U
Naphthalene	**12**	
1,2,3-Trichlorobenzene	1.9	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	103	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCC-2**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-04**
Associated Blank: **B2041902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/19/01	97.4	4.88	5	1	AJA

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.1	U	2-Hexanone	2.1	U
Chloromethane	2.1	U	Tetrachloroethene	2.1	U
Vinyl chloride	2.1	U	1,3-Dichloropropane	2.1	U
Bromomethane	5.3	U	Dibromochloromethane	2.1	U
Chloroethane	2.1	U	1,2-Dibromoethane	2.1	U
Trichlorofluoromethane	**7.6**		Chlorobenzene	2.1	U
Acetone	**47**	B	1,1,1,2-Tetrachloroethane	2.1	U
1,1-Dichloroethene	2.1	U	Ethylbenzene	2.1	U
Carbon disulfide	2.1	U	p/m-Xylene	2.1	U
Methylene chloride	**12**	B	o-Xylene	2.1	U
Methyl tert-butyl ether (MTBE)	2.1	U	Styrene	2.1	U
trans-1,2-Dichloroethene	2.1	U	Bromoform	2.1	U
1,1-Dichloroethane	2.1	U	Isopropylbenzene	2.1	U
Vinyl acetate	2.1	U	1,1,2,2-Tetrachloroethane	2.1	U
2-Butanone (MEK)	2.1	U	Bromobenzene	2.1	U
cis-1,2-Dichloroethene	2.1	U	1,2,3-Trichloropropane	2.1	U
2,2-Dichloropropane	2.1	U	n-Propylbenzene	2.1	U
Chloroform	2.1	U	2-Chlorotoluene	2.1	U
1,1,1-Trichloroethane	2.1	U	1,3,5-Trimethylbenzene	2.1	U
1,1-Dichloropropene	2.1	U	4-Chlorotoluene	2.1	U
Carbon tetrachloride	2.1	U	tert-Butylbenzene	2.1	U
Benzene	2.1	U	1,2,4-Trimethylbenzene	2.1	U
1,2-Dichloroethane	2.1	U	sec-Butylbenzene	2.1	U
Trichloroethene	2.1	U	1,3-Dichlorobenzene	2.1	U
1,2-Dichloropropane	2.1	U	p-Isopropyltoluene	2.1	U
Dibromomethane	2.1	U	1,4-Dichlorobenzene	2.1	U
Bromodichloromethane	2.1	U	n-Butylbenzene	2.1	U
2-Chloroethylvinyl ether	2.1	U	1,2-Dichlorobenzene	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U	1,2-Dibromo-3-chloropropane	2.1	U
cis-1,3-Dichloropropene	2.1	U	1,2,4-Trichlorobenzene	2.1	U
Toluene	**1.2**	J	Hexachlorobutadiene	2.1	U
trans-1,3-Dichloropropene	2.1	U	Naphthalene	**16**	
1,1,2-Trichloroethane	2.1	U	1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	102	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-1**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-05**
Associated Blank: **B2041902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/19/01	98.1	4.93	5	1	AJA

Parameter	Result	
Dichlorodifluoromethane	2.1	U
Chloromethane	2.1	U
Vinyl chloride	2.1	U
Bromomethane	5.2	U
Chloroethane	2.1	U
Trichlorofluoromethane	**1.7**	**J**
Acetone	**46**	B
1,1-Dichloroethene	2.1	U
Carbon disulfide	**25**	
Methylene chloride	**4.8**	JB
Methyl tert-butyl ether (MTBE)	2.1	U
trans-1,2-Dichloroethene	2.1	U
1,1-Dichloroethane	2.1	U
Vinyl acetate	2.1	U
2-Butanone (MEK)	**11**	
cis-1,2-Dichloroethene	2.1	U
2,2-Dichloropropane	2.1	U
Chloroform	2.1	U
1,1,1-Trichloroethane	2.1	U
1,1-Dichloropropene	2.1	U
Carbon tetrachloride	2.1	U
Benzene	**11**	
1,2-Dichloroethane	2.1	U
Trichloroethene	2.1	U
1,2-Dichloropropane	2.1	U
Dibromomethane	2.1	U
Bromodichloromethane	2.1	U
2-Chloroethylvinyl ether	2.1	U
Methyl isobutyl ketone (MIBK)	2.1	U
cis-1,3-Dichloropropene	2.1	U
Toluene	**4.2**	
trans-1,3-Dichloropropene	2.1	U
1,1,2-Trichloroethane	2.1	U

Parameter	Result	
2-Hexanone	2.1	U
Tetrachloroethene	2.1	U
1,3-Dichloropropane	2.1	U
Dibromochloromethane	2.1	U
1,2-Dibromoethane	2.1	U
Chlorobenzene	2.1	U
1,1,1,2-Tetrachloroethane	2.1	U
Ethylbenzene	2.1	U
p/m-Xylene	**1.0**	**J**
o-Xylene	2.1	U
Styrene	2.1	U
Bromoform	2.1	U
Isopropylbenzene	2.1	U
1,1,2,2-Tetrachloroethane	2.1	U
Bromobenzene	2.1	U
1,2,3-Trichloropropane	2.1	U
n-Propylbenzene	2.1	U
2-Chlorotoluene	2.1	U
1,3,5-Trimethylbenzene	2.1	U
4-Chlorotoluene	2.1	U
tert-Butylbenzene	2.1	U
1,2,4-Trimethylbenzene	2.1	U
sec-Butylbenzene	2.1	U
1,3-Dichlorobenzene	2.1	U
p-Isopropyltoluene	2.1	U
1,4-Dichlorobenzene	2.1	U
n-Butylbenzene	2.1	U
1,2-Dichlorobenzene	2.1	U
1,2-Dibromo-3-chloropropane	2.1	U
1,2,4-Trichlorobenzene	2.1	U
Hexachlorobutadiene	2.1	U
Naphthalene	**120**	
1,2,3-Trichlorobenzene	2.1	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	84-108
Toluene-d8	97	87-108
4-Bromofluorobenzene	101	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-2**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-06**
Associated Blank: **B2041902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/19/01	97.7	5.68	5	1	AJA

Parameter	Result	
Dichlorodifluoromethane	1.8	U
Chloromethane	1.8	U
Vinyl chloride	1.8	U
Bromomethane	4.5	U
Chloroethane	1.8	U
Trichlorofluoromethane	1.8	U
Acetone	**51**	B
1,1-Dichloroethene	1.8	U
Carbon disulfide	**3.3**	
Methylene chloride	**2.6**	JB
Methyl tert-butyl ether (MTBE)	1.8	U
trans-1,2-Dichloroethene	1.8	U
1,1-Dichloroethane	1.8	U
Vinyl acetate	1.8	U
2-Butanone (MEK)	**11**	
cis-1,2-Dichloroethene	1.8	U
2,2-Dichloropropane	1.8	U
Chloroform	1.8	U
1,1,1-Trichloroethane	1.8	U
1,1-Dichloropropene	1.8	U
Carbon tetrachloride	1.8	U
Benzene	**3.0**	
1,2-Dichloroethane	1.8	U
Trichloroethene	1.8	U
1,2-Dichloropropane	1.8	U
Dibromomethane	1.8	U
Bromodichloromethane	1.8	U
2-Chloroethylvinyl ether	1.8	U
Methyl isobutyl ketone (MIBK)	1.8	U
cis-1,3-Dichloropropene	1.8	U
Toluene	**1.7**	J
trans-1,3-Dichloropropene	1.8	U
1,1,2-Trichloroethane	1.8	U

Parameter	Result	
2-Hexanone	1.8	U
Tetrachloroethene	1.8	U
1,3-Dichloropropane	1.8	U
Dibromochloromethane	1.8	U
1,2-Dibromoethane	1.8	U
Chlorobenzene	1.8	U
1,1,1,2-Tetrachloroethane	1.8	U
Ethylbenzene	1.8	U
p/m-Xylene	1.8	U
o-Xylene	1.8	U
Styrene	1.8	U
Bromoform	1.8	U
Isopropylbenzene	1.8	U
1,1,2,2-Tetrachloroethane	1.8	U
Bromobenzene	1.8	U
1,2,3-Trichloropropane	1.8	U
n-Propylbenzene	1.8	U
2-Chlorotoluene	1.8	U
1,3,5-Trimethylbenzene	1.8	U
4-Chlorotoluene	1.8	U
tert-Butylbenzene	1.8	U
1,2,4-Trimethylbenzene	1.8	U
sec-Butylbenzene	1.8	U
1,3-Dichlorobenzene	1.8	U
p-Isopropyltoluene	1.8	U
1,4-Dichlorobenzene	1.8	U
n-Butylbenzene	1.8	U
1,2-Dichlorobenzene	1.8	U
1,2-Dibromo-3-chloropropane	1.8	U
1,2,4-Trichlorobenzene	1.8	U
Hexachlorobutadiene	1.8	U
Naphthalene	**34**	
1,2,3-Trichlorobenzene	1.8	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	101	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-3**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-07**
Associated Blank: **B2041902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/19/01	98.8	4.58	5	1	AJA

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	5.5	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**87**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	**38**		p/m-Xylene	2.2	U
Methylene chloride	**4.3**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	2.2	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	2.2	U	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	**4.1**		1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	**13**		1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	**3.0**		Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	**10**	
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	99	84-108
Toluene-d8	100	87-108
4-Bromofluorobenzene	101	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Trip Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-08**
Associated Blank: **B2041902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/19/01	100.0	5	5	1	AJA

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	5.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**5.9**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**5.8**	B	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	105	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	100	77-113

B - Found in associated blank as well as sample.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **B2041902**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	04/19/01	100.0	5	5	1	AJA

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	5.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**6.2**		1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**3.9**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	84-108
Toluene-d8	99	87-108
4-Bromofluorobenzene	102	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **See Below**
Associated Blank: **B2041902**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100.0	AJA

Lab ID:	B2041902	Q2041901		Q2041902				
Parameter	**Method Blank Conc.**	**Blank Spike Conc.**	**% Recovery**	**Blank Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
1,1-Dichloroethene	2.0 U	20	101	22	108	7	30	69-148
Benzene	2.0 U	20	97	20	102	5	30	74-136
Trichloroethene	2.0 U	20	101	21	106	5	26	74-139
Toluene	2.0 U	20	100	21	103	3	27	66-139
Chlorobenzene	2.0 U	21	106	22	109	3	30	78-130

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	98	101	84-108
Toluene-d8	98	98	87-108
4-Bromofluorobenzene	102	102	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SH-WSS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-01**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/17/01	04/20/01	95.4	50.26	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
N-Nitroso-di-n-propylamine	100	U
4-Methylphenol	100	U
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	100	U
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	100	U
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	210	U
2-Chloronaphthalene	100	U
2-Nitroaniline	210	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	100	U
3-Nitroaniline	210	U

Parameter	Result	
2,4-Dinitrophenol	210	U
Dibenzofuran	100	U
2,4-Dinitrotoluene	100	U
4-Nitrophenol	210	U
Fluorene	100	U
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	100	U
4-Nitroaniline	210	U
4,6-Dinitro-2-methylphenol	210	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	210	U
Phenanthrene	**60**	J
Anthracene	100	U
Di-n-butylphthalate	100	U
Fluoranthene	**94**	J
Pyrene	**95**	J
Butylbenzylphthalate	100	U
3,3'-Dichlorobenzidine	100	U
Carbazole	100	U
Benz[a]anthracene	**46**	J
Chrysene	**47**	J
bis(2-Ethylhexyl)phthalate	100	U
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	**47**	J
Benzo[k]fluoranthene	**35**	J
Benzo[a]pyrene	**47**	J
Indeno[1,2,3-cd]pyrene	**30**	J
Dibenz[a,h]anthracene	100	U
Benzo[g,h,i]perylene	**31**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	80	25-121
Phenol-d5	83	24-113
Nitrobenzene-d5	83	23-120
2-Fluorobiphenyl	81	30-115
2,4,6-Tribromophenol	92	19-122
Terphenyl-d14	91	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SH-ESS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-02**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/17/01	04/20/01	95.6	50.03	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
N-Nitroso-di-n-propylamine	100	U
4-Methylphenol	100	U
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	100	U
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	100	U
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	210	U
2-Chloronaphthalene	100	U
2-Nitroaniline	210	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	100	U
3-Nitroaniline	210	U

Parameter	Result	
2,4-Dinitrophenol	210	U
Dibenzofuran	100	U
2,4-Dinitrotoluene	100	U
4-Nitrophenol	210	U
Fluorene	100	U
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	100	U
4-Nitroaniline	210	U
4,6-Dinitro-2-methylphenol	210	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	210	U
Phenanthrene	**30**	J
Anthracene	100	U
Di-n-butylphthalate	100	U
Fluoranthene	**60**	J
Pyrene	**59**	J
Butylbenzylphthalate	100	U
3,3'-Dichlorobenzidine	100	U
Carbazole	100	U
Benz[a]anthracene	**29**	J
Chrysene	**33**	J
bis(2-Ethylhexyl)phthalate	100	U
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	**30**	J
Benzo[k]fluoranthene	**26**	J
Benzo[a]pyrene	**30**	J
Indeno[1,2,3-cd]pyrene	**19**	J
Dibenz[a,h]anthracene	100	U
Benzo[g,h,i]perylene	**22**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	84	25-121
Phenol-d5	88	24-113
Nitrobenzene-d5	84	23-120
2-Fluorobiphenyl	82	30-115
2,4,6-Tribromophenol	89	19-122
Terphenyl-d14	95	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCC-1**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-03**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/17/01	04/20/01	97.9	50.06	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
N-Nitroso-di-n-propylamine	100	U
4-Methylphenol	100	U
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	**25**	J
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	100	U
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	200	U
2-Chloronaphthalene	100	U
2-Nitroaniline	200	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	**52**	J
3-Nitroaniline	200	U

Parameter	Result	
2,4-Dinitrophenol	200	U
Dibenzofuran	**41**	J
2,4-Dinitrotoluene	100	U
4-Nitrophenol	200	U
Fluorene	**62**	J
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	100	U
4-Nitroaniline	200	U
4,6-Dinitro-2-methylphenol	200	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	200	U
Phenanthrene	**480**	
Anthracene	**74**	J
Di-n-butylphthalate	**39**	J
Fluoranthene	**450**	
Pyrene	**310**	
Butylbenzylphthalate	100	U
3,3'-Dichlorobenzidine	100	U
Carbazole	**70**	J
Benz[a]anthracene	**150**	
Chrysene	**170**	
bis(2-Ethylhexyl)phthalate	**540**	B
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	**150**	
Benzo[k]fluoranthene	**100**	J
Benzo[a]pyrene	**110**	
Indeno[1,2,3-cd]pyrene	**65**	J
Dibenz[a,h]anthracene	100	U
Benzo[g,h,i]perylene	**66**	J

Surrogate	% Recovery		Acceptance Range (%)
2-Fluorophenol	12	§	25-121
Phenol-d5	48		24-113
Nitrobenzene-d5	75		23-120
2-Fluorobiphenyl	78		30-115
2,4,6-Tribromophenol	1	§	19-122
Terphenyl-d14	87		18-137

§ - Surrogate value outside of acceptable range.
B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCC-2**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-04**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/17/01	04/20/01	97.4	50.02	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
N-Nitroso-di-n-propylamine	100	U
4-Methylphenol	100	U
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	**30**	J
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	**23**	J
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	200	U
2-Chloronaphthalene	100	U
2-Nitroaniline	200	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	**100**	J
3-Nitroaniline	200	U

Parameter	Result	
2,4-Dinitrophenol	200	U
Dibenzofuran	100	U
2,4-Dinitrotoluene	100	U
4-Nitrophenol	200	U
Fluorene	**100**	J
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	100	U
4-Nitroaniline	200	U
4,6-Dinitro-2-methylphenol	200	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	200	U
Phenanthrene	**610**	
Anthracene	**140**	
Di-n-butylphthalate	**62**	J
Fluoranthene	**500**	
Pyrene	**390**	
Butylbenzylphthalate	100	U
3,3'-Dichlorobenzidine	100	U
Carbazole	**100**	J
Benz[a]anthracene	**180**	
Chrysene	**190**	
bis(2-Ethylhexyl)phthalate	**200**	B
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	**180**	
Benzo[k]fluoranthene	**100**	J
Benzo[a]pyrene	**140**	
Indeno[1,2,3-cd]pyrene	**76**	J
Dibenz[a,h]anthracene	100	U
Benzo[g,h,i]perylene	**76**	J

Surrogate	% Recovery		Acceptance Range (%)
2-Fluorophenol	1	§	25-121
Phenol-d5	8	§	24-113
Nitrobenzene-d5	73		23-120
2-Fluorobiphenyl	80		30-115
2,4,6-Tribromophenol	0	§	19-122
Terphenyl-d14	91		18-137

§ - Surrogate value outside of acceptable range.
B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-1**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-05**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/17/01	04/20/01	98.1	50.12	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
N-Nitroso-di-n-propylamine	100	U
4-Methylphenol	**33**	J
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	**430**	
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	**160**	
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	200	U
2-Chloronaphthalene	100	U
2-Nitroaniline	200	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	**730**	
3-Nitroaniline	200	U

Parameter	Result	
2,4-Dinitrophenol	200	U
Dibenzofuran	**570**	
2,4-Dinitrotoluene	100	U
4-Nitrophenol	200	U
Fluorene	**750**	
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	100	U
4-Nitroaniline	200	U
4,6-Dinitro-2-methylphenol	200	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	200	U
Phenanthrene	**1800**	
Anthracene	**2800**	
Di-n-butylphthalate	**54**	J
Fluoranthene	**2700**	
Pyrene	**5400**	E
Butylbenzylphthalate	100	U
3,3'-Dichlorobenzidine	100	U
Carbazole	**750**	
Benz[a]anthracene	**380**	
Chrysene	**680**	
bis(2-Ethylhexyl)phthalate	**140000**	BE
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	**740**	
Benzo[k]fluoranthene	**460**	
Benzo[a]pyrene	**580**	
Indeno[1,2,3-cd]pyrene	**230**	
Dibenz[a,h]anthracene	**53**	J
Benzo[g,h,i]perylene	**170**	

Surrogate	% Recovery		Acceptance Range (%)
2-Fluorophenol	16	§	25-121
Phenol-d5	53		24-113
Nitrobenzene-d5	72		23-120
2-Fluorobiphenyl	76		30-115
2,4,6-Tribromophenol	1	§	19-122
Terphenyl-d14	197	§	18-137

§ - Surrogate value outside of acceptable range.
B - Found in associated blank as well as sample.
E - Estimated value, exceeds the upper limit of calibration.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-1**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-05E**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/17/01	04/20/01	98.1	50.12	1	250	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	25000	U
Phenol	25000	U
2-Chlorophenol	25000	U
1,3-Dichlorobenzene	25000	U
1,4-Dichlorobenzene	25000	U
1,2-Dichlorobenzene	25000	U
bis(2-chloroisopropyl)ether	25000	U
2-Methylphenol	25000	U
Hexachloroethane	25000	U
N-Nitroso-di-n-propylamine	25000	U
4-Methylphenol	25000	U
Nitrobenzene	25000	U
Isophorone	25000	U
2-Nitrophenol	25000	U
2,4-Dimethylphenol	25000	U
bis(2-Chloroethoxy)methane	25000	U
2,4-Dichlorophenol	25000	U
1,2,4-Trichlorobenzene	25000	U
Naphthalene	25000	U
4-Chloroaniline	25000	U
Hexachlorobutadiene	25000	U
4-Chloro-3-methylphenol	25000	U
2-Methylnaphthalene	25000	U
Hexachlorocyclopentadiene	25000	U
2,4,6-Trichlorophenol	25000	U
2,4,5-Trichlorophenol	51000	U
2-Chloronaphthalene	25000	U
2-Nitroaniline	51000	U
Acenaphthylene	25000	U
Dimethylphthalate	25000	U
2,6-Dinitrotoluene	25000	U
Acenaphthene	25000	U
3-Nitroaniline	51000	U

Parameter	Result	
2,4-Dinitrophenol	51000	U
Dibenzofuran	25000	U
2,4-Dinitrotoluene	25000	U
4-Nitrophenol	51000	U
Fluorene	25000	U
4-Chlorophenyl-phenylether	25000	U
Diethylphthalate	25000	U
4-Nitroaniline	51000	U
4,6-Dinitro-2-methylphenol	51000	U
n-Nitrosodiphenylamine	25000	U
4-Bromophenyl-phenylether	25000	U
Hexachlorobenzene	25000	U
Pentachlorophenol	51000	U
Phenanthrene	**4800**	J
Anthracene	25000	U
Di-n-butylphthalate	25000	U
Fluoranthene	25000	U
Pyrene	25000	U
Butylbenzylphthalate	25000	U
3,3'-Dichlorobenzidine	25000	U
Carbazole	25000	U
Benz[a]anthracene	25000	U
Chrysene	25000	U
bis(2-Ethylhexyl)phthalate	**610000**	B
Di-n-octylphthalate	25000	U
Benzo[b]fluoranthene	25000	U
Benzo[k]fluoranthene	25000	U
Benzo[a]pyrene	25000	U
Indeno[1,2,3-cd]pyrene	25000	U
Dibenz[a,h]anthracene	25000	U
Benzo[g,h,i]perylene	25000	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	DL	25-121
Phenol-d5	DL	24-113
Nitrobenzene-d5	DL	23-120
2-Fluorobiphenyl	DL	30-115
2,4,6-Tribromophenol	DL	19-122
Terphenyl-d14	DL	18-137

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
DL - Surrogate diluted out of sample.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-2**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-06**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/17/01	04/20/01	97.7	50.09	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
N-Nitroso-di-n-propylamine	100	U
4-Methylphenol	**72**	J
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	**260**	
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	**89**	J
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	200	U
2-Chloronaphthalene	100	U
2-Nitroaniline	200	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	**420**	
3-Nitroaniline	200	U

Parameter	Result	
2,4-Dinitrophenol	200	U
Dibenzofuran	**340**	
2,4-Dinitrotoluene	100	U
4-Nitrophenol	200	U
Fluorene	**440**	
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	100	U
4-Nitroaniline	200	U
4,6-Dinitro-2-methylphenol	200	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	200	U
Phenanthrene	**2800**	
Anthracene	**430**	
Di-n-butylphthalate	**210**	
Fluoranthene	**2200**	
Pyrene	**2600**	
Butylbenzylphthalate	100	U
3,3'-Dichlorobenzidine	100	U
Carbazole	**500**	
Benz[a]anthracene	**920**	
Chrysene	**650**	
bis(2-Ethylhexyl)phthalate	**2300**	B
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	**600**	
Benzo[k]fluoranthene	**660**	
Benzo[a]pyrene	**600**	
Indeno[1,2,3-cd]pyrene	**120**	
Dibenz[a,h]anthracene	**30**	J
Benzo[g,h,i]perylene	**94**	J

Surrogate	% Recovery		Acceptance Range (%)
2-Fluorophenol	56		25-121
Phenol-d5	72		24-113
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	78		30-115
2,4,6-Tribromophenol	16	§	19-122
Terphenyl-d14	110		18-137

§ - Surrogate value outside of acceptable range.
B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-3**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-07**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/17/01	04/20/01	98.8	50.02	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
N-Nitroso-di-n-propylamine	100	U
4-Methylphenol	77	J
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	**22**	J
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	100	U
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	200	U
2-Chloronaphthalene	100	U
2-Nitroaniline	200	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	**59**	J
3-Nitroaniline	200	U

Parameter	Result	
2,4-Dinitrophenol	200	U
Dibenzofuran	**88**	J
2,4-Dinitrotoluene	100	U
4-Nitrophenol	200	U
Fluorene	**110**	
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	100	U
4-Nitroaniline	200	U
4,6-Dinitro-2-methylphenol	200	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	200	U
Phenanthrene	**1200**	
Anthracene	**66**	J
Di-n-butylphthalate	**40**	J
Fluoranthene	**840**	
Pyrene	**410**	
Butylbenzylphthalate	**72**	J
3,3'-Dichlorobenzidine	100	U
Carbazole	**94**	J
Benz[a]anthracene	**110**	
Chrysene	**190**	
bis(2-Ethylhexyl)phthalate	**2500**	B
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	**140**	
Benzo[k]fluoranthene	**75**	J
Benzo[a]pyrene	**65**	J
Indeno[1,2,3-cd]pyrene	**33**	J
Dibenz[a,h]anthracene	100	U
Benzo[g,h,i]perylene	**24**	J

Surrogate	% Recovery		Acceptance Range (%)
2-Fluorophenol	29		25-121
Phenol-d5	64		24-113
Nitrobenzene-d5	67		23-120
2-Fluorobiphenyl	80		30-115
2,4,6-Tribromophenol	2	§	19-122
Terphenyl-d14	88		18-137

§ - Surrogate value outside of acceptable range.
B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **SS0417B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	04/17/01	04/19/01	100.0	50	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
N-Nitroso-di-n-propylamine	100	U
4-Methylphenol	100	U
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	100	U
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	100	U
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	200	U
2-Chloronaphthalene	100	U
2-Nitroaniline	200	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	100	U
3-Nitroaniline	200	U

Parameter	Result	
2,4-Dinitrophenol	200	U
Dibenzofuran	100	U
2,4-Dinitrotoluene	100	U
4-Nitrophenol	200	U
Fluorene	100	U
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	100	U
4-Nitroaniline	200	U
4,6-Dinitro-2-methylphenol	200	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	200	U
Phenanthrene	100	U
Anthracene	100	U
Di-n-butylphthalate	100	U
Fluoranthene	100	U
Pyrene	100	U
Butylbenzylphthalate	100	U
3,3'-Dichlorobenzidine	100	U
Carbazole	100	U
Benz[a]anthracene	100	U
Chrysene	100	U
bis(2-Ethylhexyl)phthalate	**34**	J
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	100	U
Benzo[k]fluoranthene	100	U
Benzo[a]pyrene	100	U
Indeno[1,2,3-cd]pyrene	100	U
Dibenz[a,h]anthracene	100	U
Benzo[g,h,i]perylene	100	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	90	25-121
Phenol-d5	94	24-113
Nitrobenzene-d5	90	23-120
2-Fluorobiphenyl	93	30-115
2,4,6-Tribromophenol	96	19-122
Terphenyl-d14	100	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **SS0417L1**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	04/17/01	100.0	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	3200	81	26-90
2-Chlorophenol	3400	84	25-102
1,4-Dichlorobenzene	1500	75	28-104
N-Nitroso-di-n-propylamine	1600	81	41-126
1,2,4-Trichlorobenzene	1600	81	38-107
4-Chloro-3-methylphenol	3300	83	26-103
Acenaphthene	1800	88	31-137
2,4-Dinitrotoluene	1900	94[a]	28-89
4-Nitrophenol	3600	90	11-114
Pentachlorophenol	3100	77	17-109
Pyrene	1700	86	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	83	25-121
Phenol-d5	85	24-113
Nitrobenzene-d5	81	23-120
2-Fluorobiphenyl	85	30-115
2,4,6-Tribromophenol	88	19-122
Terphenyl-d14	88	18-137

[a] - Value outside of QC Limits.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SH-WSS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **See Below**
Associated Blank: **SS0417B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
04/05/01	04/05/01	04/17/01	95.4	CLM

Lab ID:		45684-01		45684-01		45684-01			
Parameter	**Sample Conc.**		**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Phenol	100	U	3600	87	3600	87	0	35	26-90
2-Chlorophenol	100	U	3700	90	3700	89	1	50	25-102
1,4-Dichlorobenzene	100	U	1600	78	1600	78	0	27	28-104
N-Nitroso-di-n-propylamine	100	U	1800	85	1800	86	1	38	41-126
1,2,4-Trichlorobenzene	100	U	1700	83	1800	84	1	23	38-107
4-Chloro-3-methylphenol	100	U	3700	89	3900	93	4	33	26-103
Acenaphthene	100	U	1800	88	1900	91	3	19	31-137
2,4-Dinitrotoluene	100	U	1900	89	2000	93[a]	5	47	28-89
4-Nitrophenol	210	U	3900	94	4000	97	3	50	11-114
Pentachlorophenol	210	U	4400	104	4500	107	2	47	17-109
Pyrene	95		2200	100	2000	92	8	36	35-142

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
2-Fluorophenol	87	84	25-121
Phenol-d5	89	90	24-113
Nitrobenzene-d5	81	82	23-120
2-Fluorobiphenyl	83	82	30-115
2,4,6-Tribromophenol	94	96	19-122
Terphenyl-d14	88	90	18-137

[a] - Value outside of QC Limits.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

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Polychlorinated Biphenyls by GC/ECD

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SH-WSS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-01**
Associated Blank: **PS0418B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/18/01	04/18/01	95.4	50.65	1	1	DMB

Parameter	Result
Aroclor 1016	1.0 U
Aroclor 1221	1.0 U
Aroclor 1232	1.0 U
Aroclor 1242	1.0 U
Aroclor 1248	1.0 U
Aroclor 1254	1.0 U
Aroclor 1260	1.0 U

Surrogate	% Recovery	Acceptance Range (%)
Tetrachloro-meta-xylene	79	30-150
Decachlorobiphenyl	94	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SH-ESS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-02**
Associated Blank: **PS0418B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/18/01	04/19/01	95.6	50.24	1	1	DMB

Parameter	Result
Aroclor 1016	1.0 U
Aroclor 1221	1.0 U
Aroclor 1232	1.0 U
Aroclor 1242	1.0 U
Aroclor 1248	1.0 U
Aroclor 1254	1.0 U
Aroclor 1260	1.0 U

Surrogate	% Recovery	Acceptance Range (%)
Tetrachloro-meta-xylene	91	30-150
Decachlorobiphenyl	102	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Polychlorinated Biphenyls by GC/ECD

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCC-1**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-03**
Associated Blank: **PS0418B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/18/01	04/19/01	97.9	50.4	1	1	DMB

Parameter	Result
Aroclor 1016	1.0 U
Aroclor 1221	1.0 U
Aroclor 1232	1.0 U
Aroclor 1242	1.0 U
Aroclor 1248	1.0 U
Aroclor 1254	1.0 U
Aroclor 1260	**15**

Surrogate	% Recovery	Acceptance Range (%)
Tetrachloro-meta-xylene	80	30-150
Decachlorobiphenyl	87	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCC-2**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-04**
Associated Blank: **PS0418B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/18/01	04/19/01	97.4	50.04	1	1	DMB

Parameter	Result
Aroclor 1016	1.0 U
Aroclor 1221	1.0 U
Aroclor 1232	1.0 U
Aroclor 1242	1.0 U
Aroclor 1248	1.0 U
Aroclor 1254	1.0 U
Aroclor 1260	**7.4**

Surrogate	% Recovery	Acceptance Range (%)
Tetrachloro-meta-xylene	74	30-150
Decachlorobiphenyl	104	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-1**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-05**
Associated Blank: **PS0418B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/18/01	04/19/01	98.1	50.57	1	1	DMB

Parameter	Result
Aroclor 1016	1.0 U
Aroclor 1221	1.0 U
Aroclor 1232	1.0 U
Aroclor 1242	1.0 U
Aroclor 1248	1.0 U
Aroclor 1254	1.0 U
Aroclor 1260	**20**

Surrogate	% Recovery	Acceptance Range (%)
Tetrachloro-meta-xylene	81	30-150
Decachlorobiphenyl	140	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-2**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-06**
Associated Blank: **PS0418B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/18/01	04/19/01	97.7	50.14	1	1	DMB

Parameter	Result
Aroclor 1016	1.0 U
Aroclor 1221	1.0 U
Aroclor 1232	1.0 U
Aroclor 1242	1.0 U
Aroclor 1248	1.0 U
Aroclor 1254	1.0 U
Aroclor 1260	**27**

Surrogate	% Recovery	Acceptance Range (%)
Tetrachloro-meta-xylene	77	30-150
Decachlorobiphenyl	105	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BCF-3**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **45684-07**
Associated Blank: **PS0418B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/05/01	04/05/01	04/18/01	04/19/01	98.8	50.22	1	1	DMB

Parameter	Result
Aroclor 1016	1.0 U
Aroclor 1221	1.0 U
Aroclor 1232	1.0 U
Aroclor 1242	1.0 U
Aroclor 1248	1.0 U
Aroclor 1254	1.0 U
Aroclor 1260	**14**

Surrogate	% Recovery	Acceptance Range (%)
Tetrachloro-meta-xylene	83	30-150
Decachlorobiphenyl	93	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **PS0418B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	04/18/01	04/18/01	100.0	50	1	1	DMB

Parameter	Result
Aroclor 1016	1.0 U
Aroclor 1221	1.0 U
Aroclor 1232	1.0 U
Aroclor 1242	1.0 U
Aroclor 1248	1.0 U
Aroclor 1254	1.0 U
Aroclor 1260	1.0 U

Surrogate	% Recovery	Acceptance Range (%)
Tetrachloro-meta-xylene	101	30-150
Decachlorobiphenyl	115	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **PS0418L1**
Associated Blank: **PS0418B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	04/18/01	100.0	DMB

Parameter	Conc.	% Recovery	% Recovery Limits
Aroclor 1016	20	101	30-150
Aroclor 1260	20	98	30-150

Surrogate	% Recovery	Acceptance Range (%)
Tetrachloro-meta-xylene	88	30-150
Decachlorobiphenyl	102	30-150

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

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Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-SH-ESS**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145684**
Lab ID: **See Below**
Associated Blank: **PS0418B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
04/05/01	04/05/01	04/18/01	95.6	DMB

Lab ID:	45684-02		45684-02		45684-02				
Parameter	**Sample Conc.**		**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Aroclor 1016	1.0	U	21	100	24	114	12	50	30-150
Aroclor 1260	1.0	U	18	86	20	97	11	50	30-150

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Tetrachloro-meta-xylene	85	91	30-150
Decachlorobiphenyl	94	119	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental

ETR Number: 45684

Lab ID Number: 45684-01

Project: Bldg A-85

Sample ID: SBNL14-SH-WSS

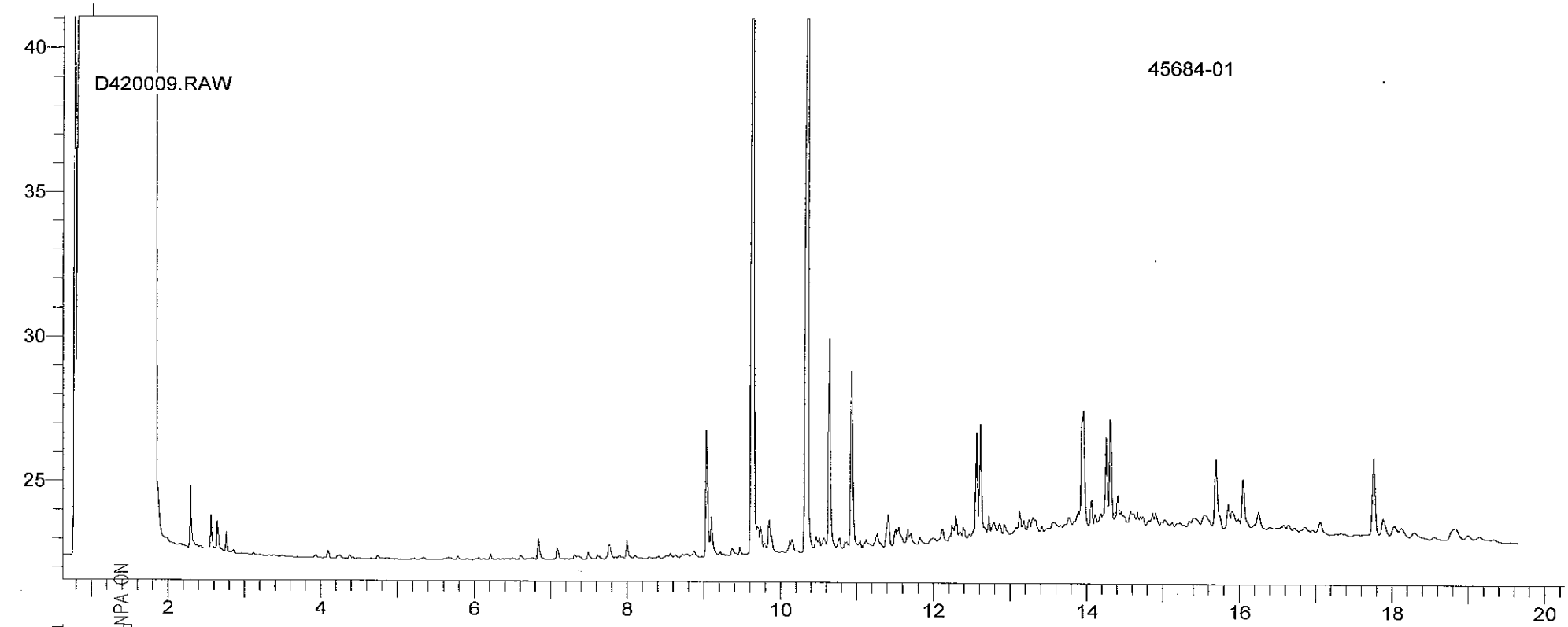
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
04/05/01	04/18/01	04/20/01	MLS	1	SOIL	PS0418B1	95%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	< 2.1
C19-C36 Hydrocarbons	3.7
Total Petroleum Hydrocarbons	3.7

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	86%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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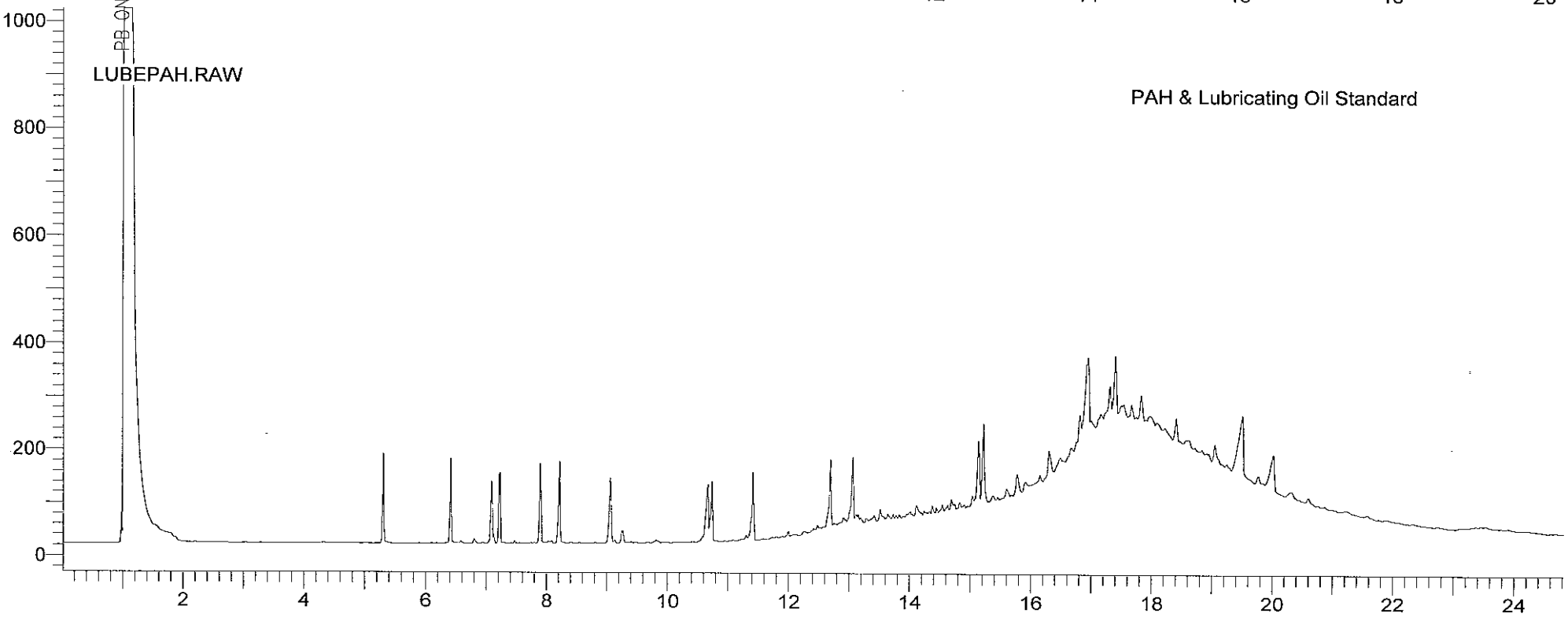
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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental

ETR Number: 45684

Lab ID Number: 45684-02

Project: **Bldg A-85**

Sample ID: SBNL14-SH-ESS

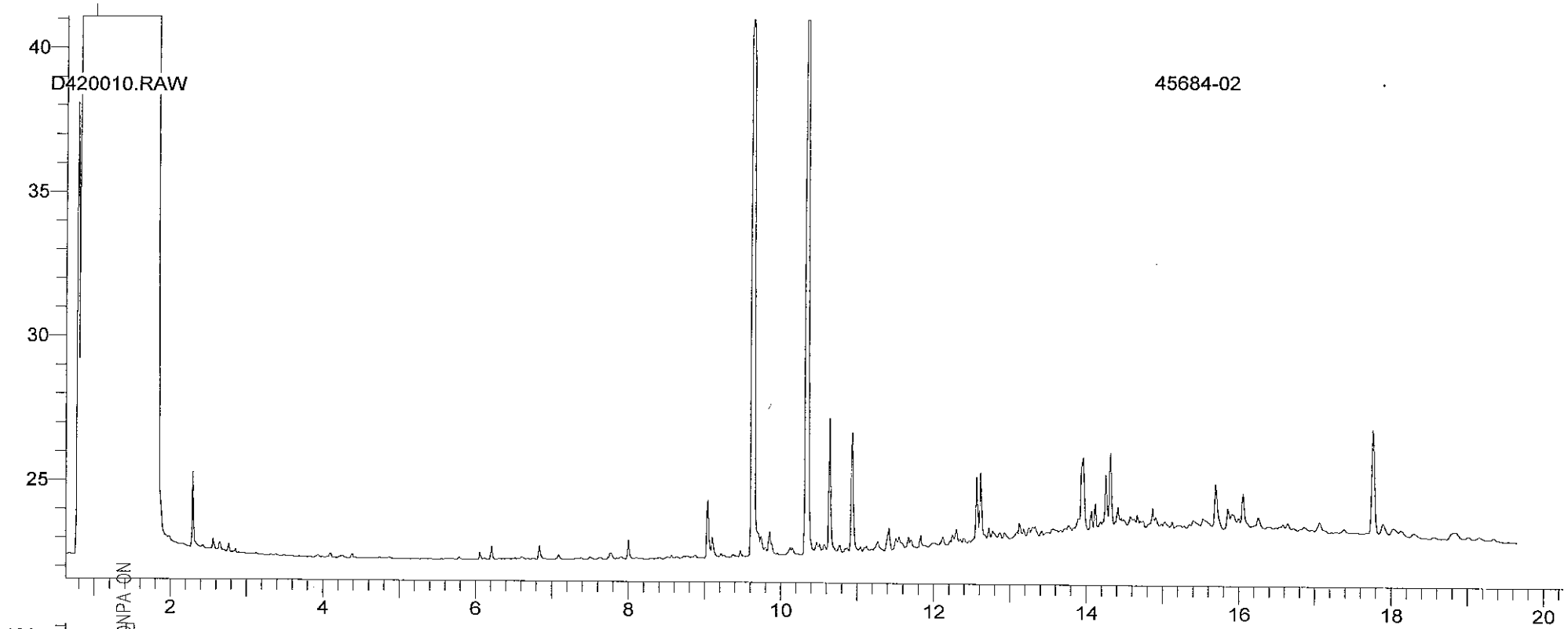
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
04/05/01	04/18/01	04/20/01	MLS	1	SOIL	PS0418B1	96%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	< 2.1
C19-C36 Hydrocarbons	3.0
Total Petroleum Hydrocarbons	3.0

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	93%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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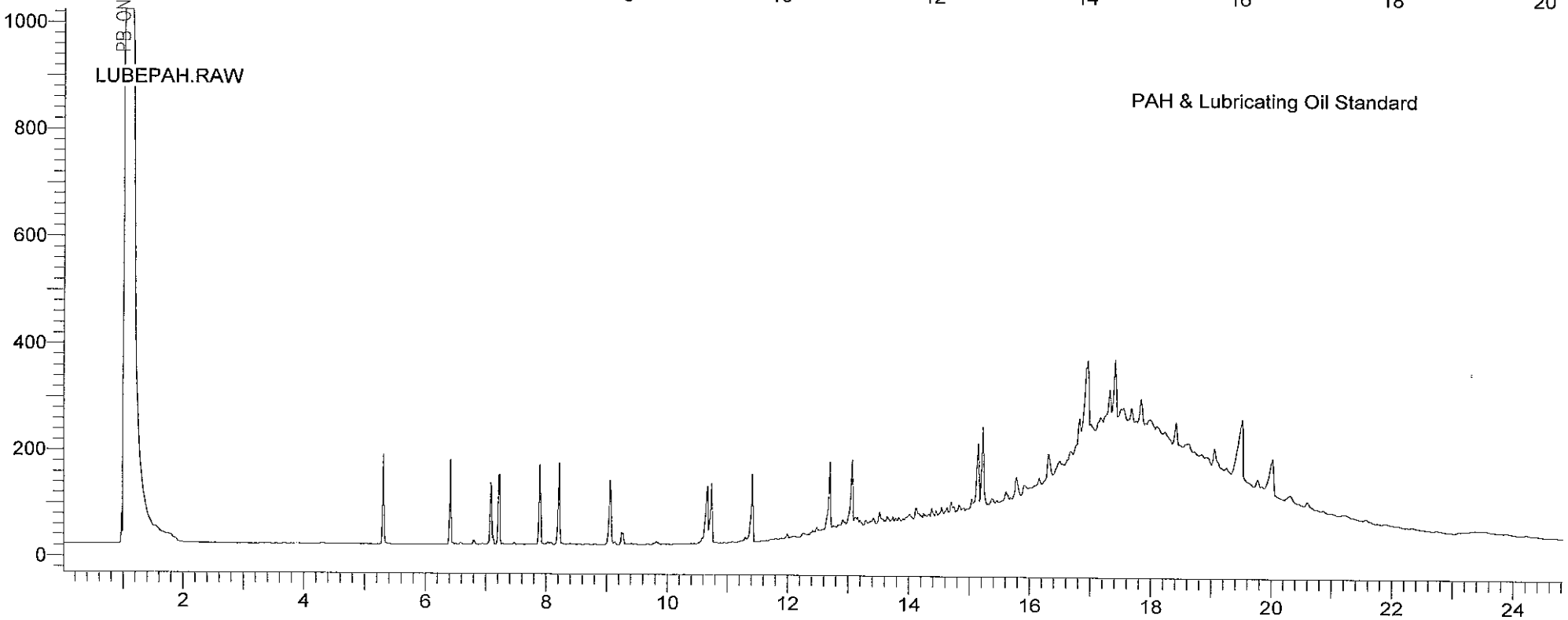
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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental

ETR Number: 45684

Lab ID Number: 45684-03

Project: Bldg A-85

Sample ID: SBNL14-BCC-1

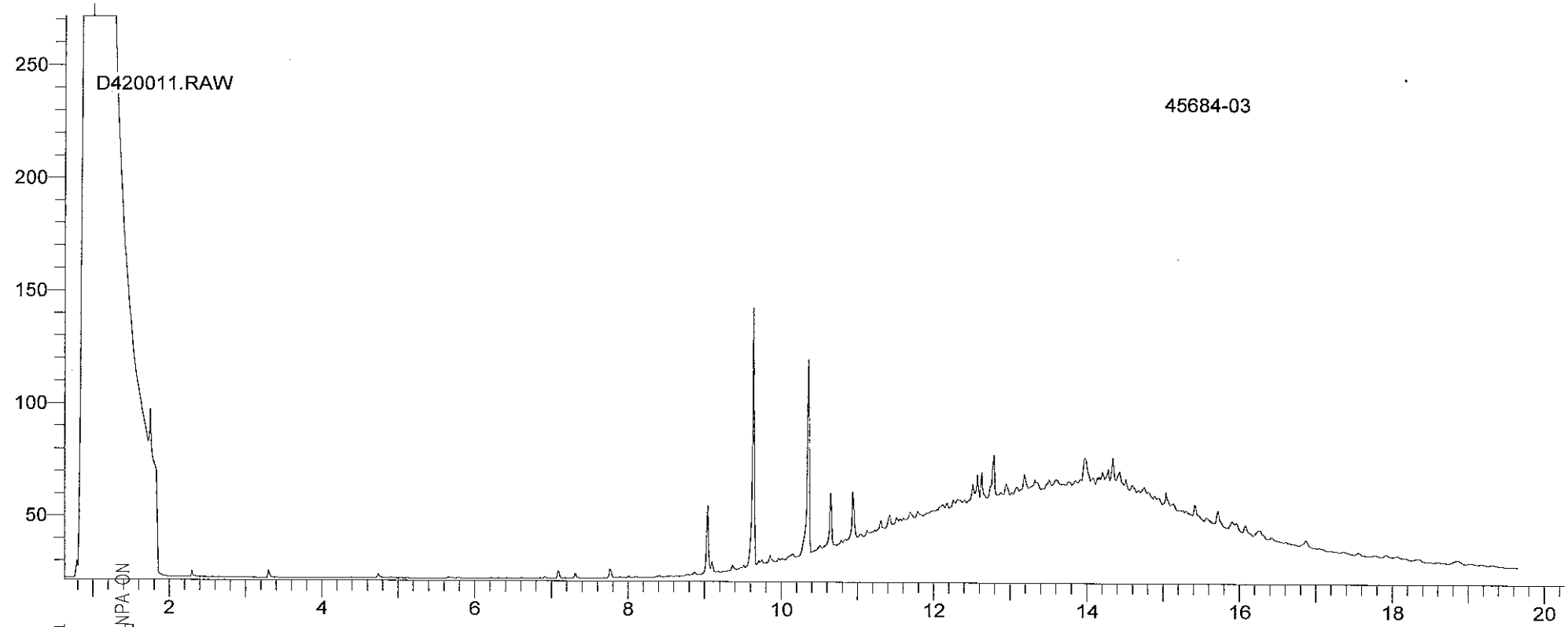
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
04/05/01	04/18/01	04/20/01	MLS	1	SOLID	PS0418B1	98%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	2.6
C19-C36 Hydrocarbons	110
Total Petroleum Hydrocarbons	110

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	87%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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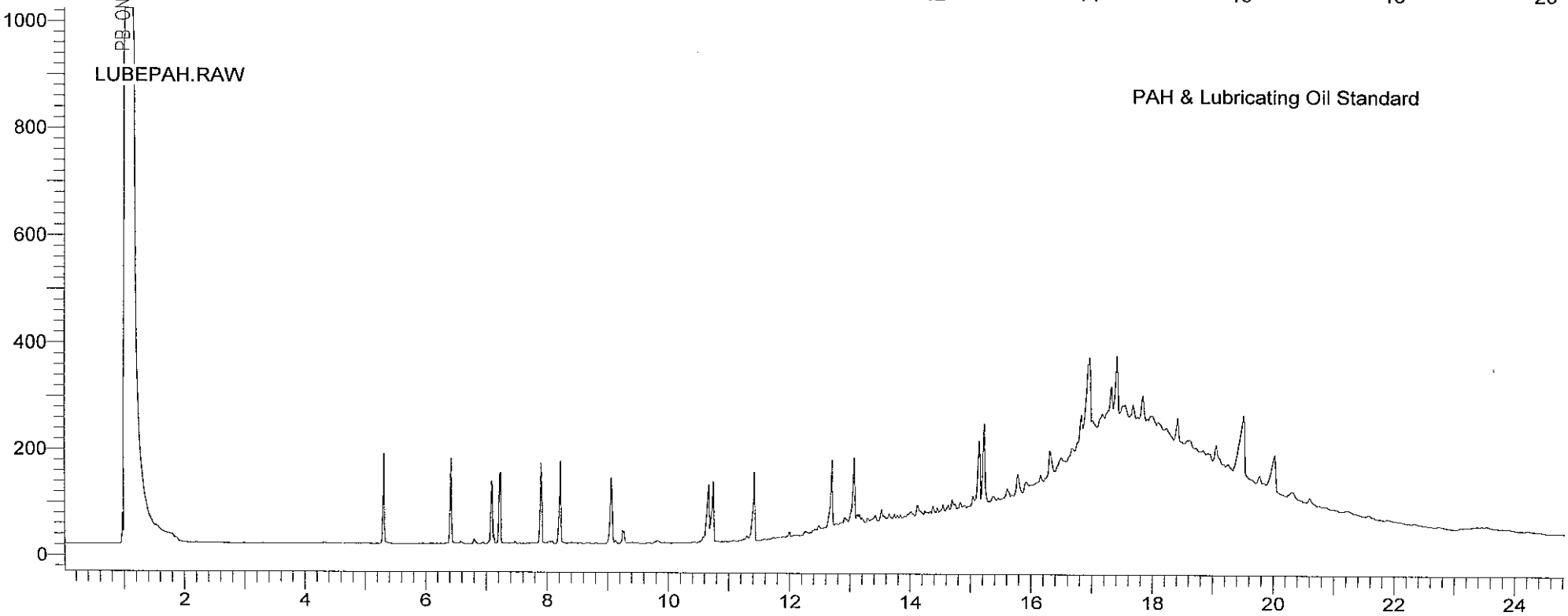
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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental

ETR Number: 45684

Lab ID Number: 45684-04

Project: Bldg A-85

Sample ID: SBNL14-BCC-2

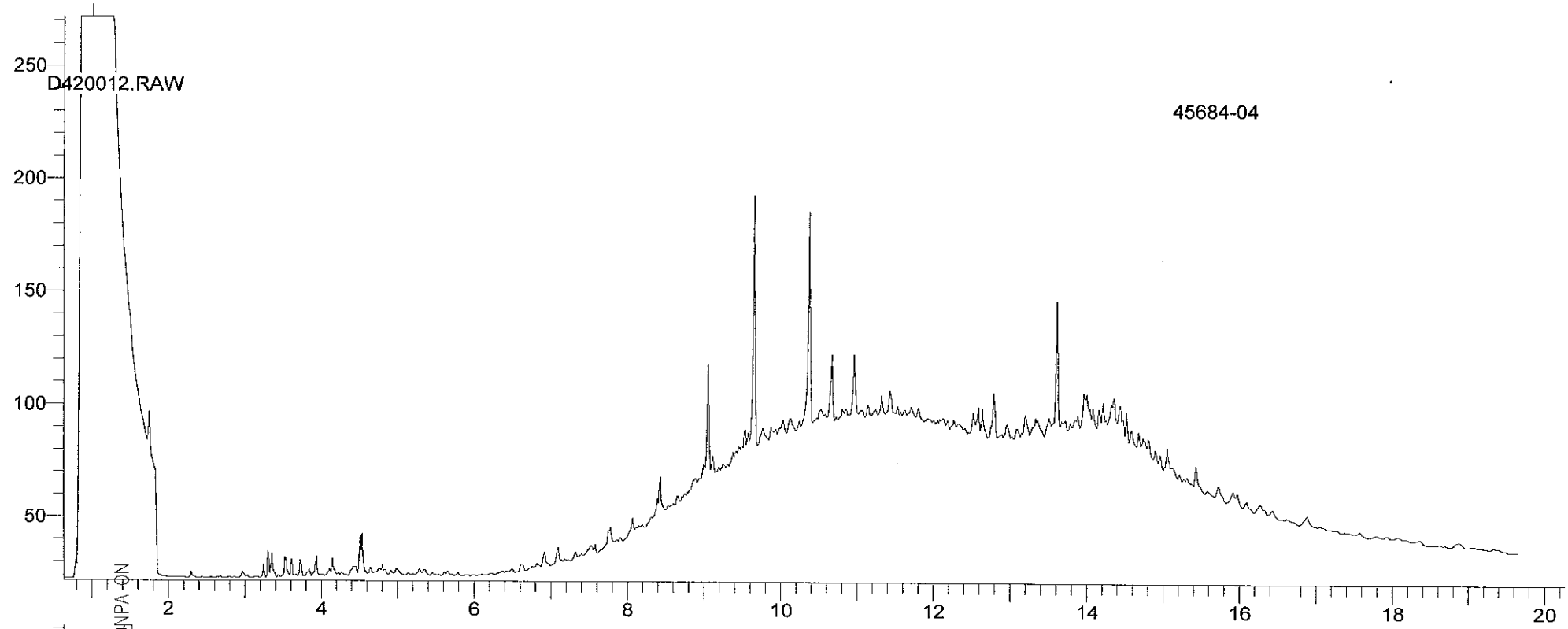
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
04/05/01	04/18/01	04/20/01	MLS	1	SOLID	PS0418B1	97%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	45
C19-C36 Hydrocarbons	230
Total Petroleum Hydrocarbons	270

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	94%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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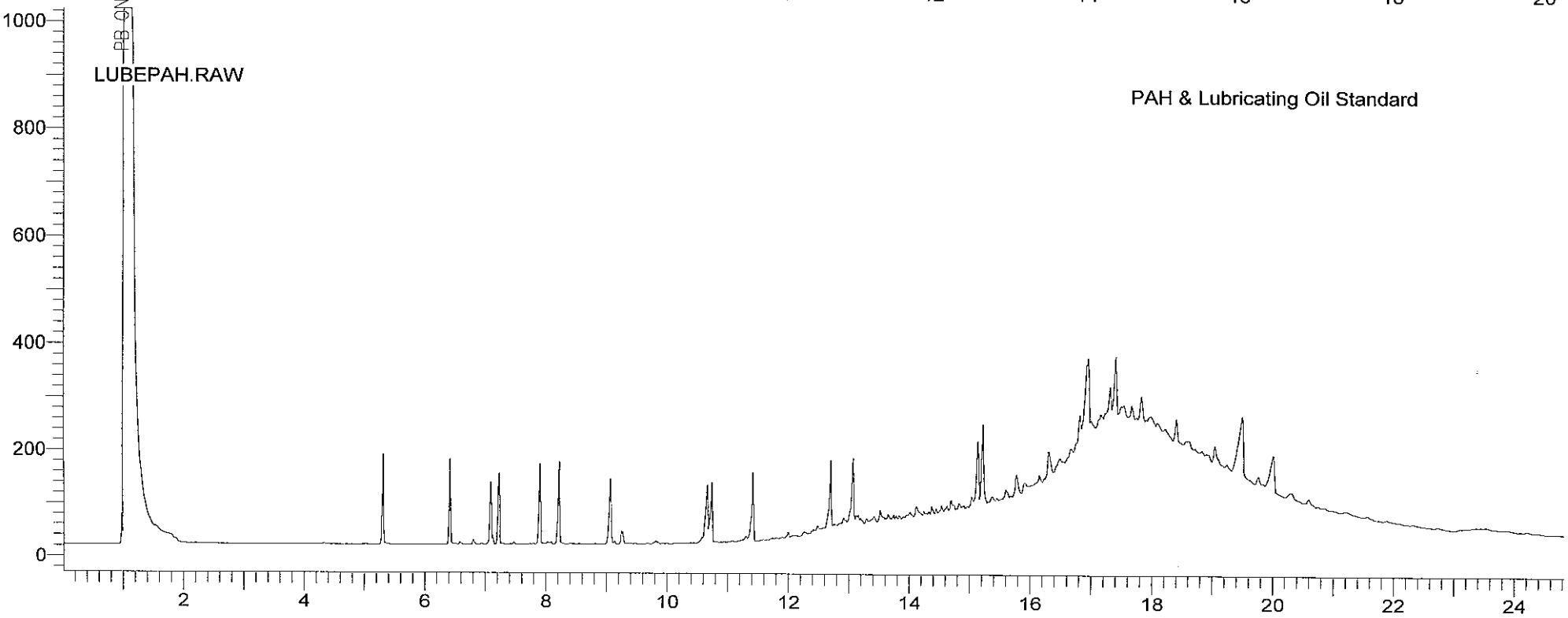
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PAH & Lubricating Oil Standard
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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental

ETR Number: 45684

Lab ID Number: 45684-05

Project: Bldg A-85

Sample ID: SBNL14-BCF-1

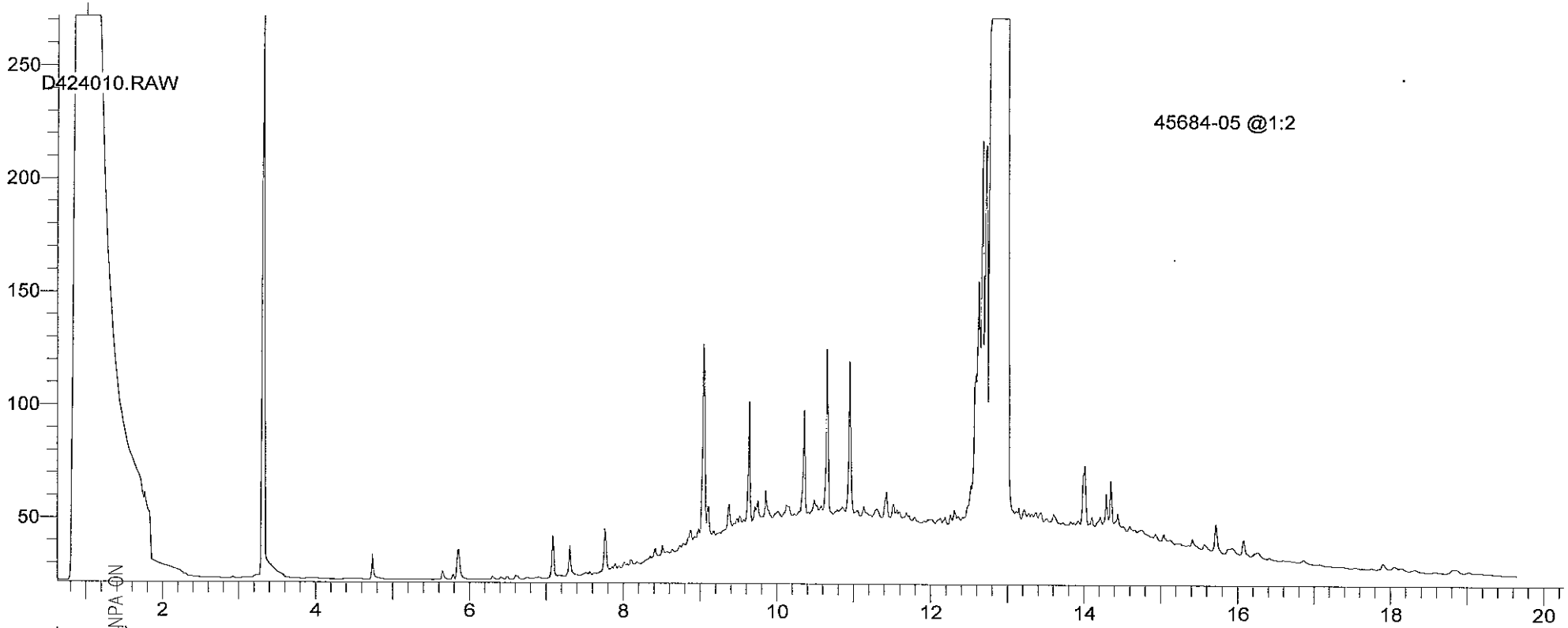
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
04/05/01	04/18/01	04/24/01	MLS	2	SOLID	PS0418B1	98%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	54
C19-C36 Hydrocarbons	450
Total Petroleum Hydrocarbons	500

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	80%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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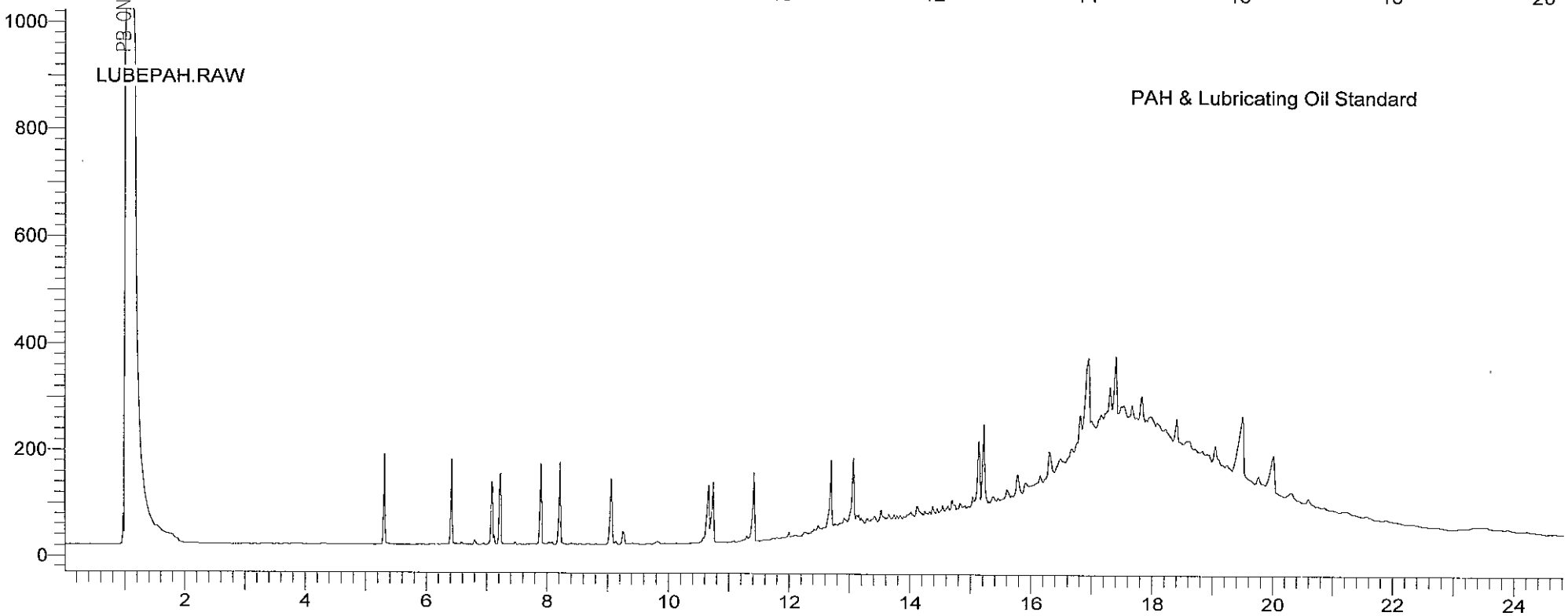
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Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental

ETR Number: 45684

Lab ID Number: 45684-06

Project: Bldg A-85

Sample ID: SBNL14-BCF-2

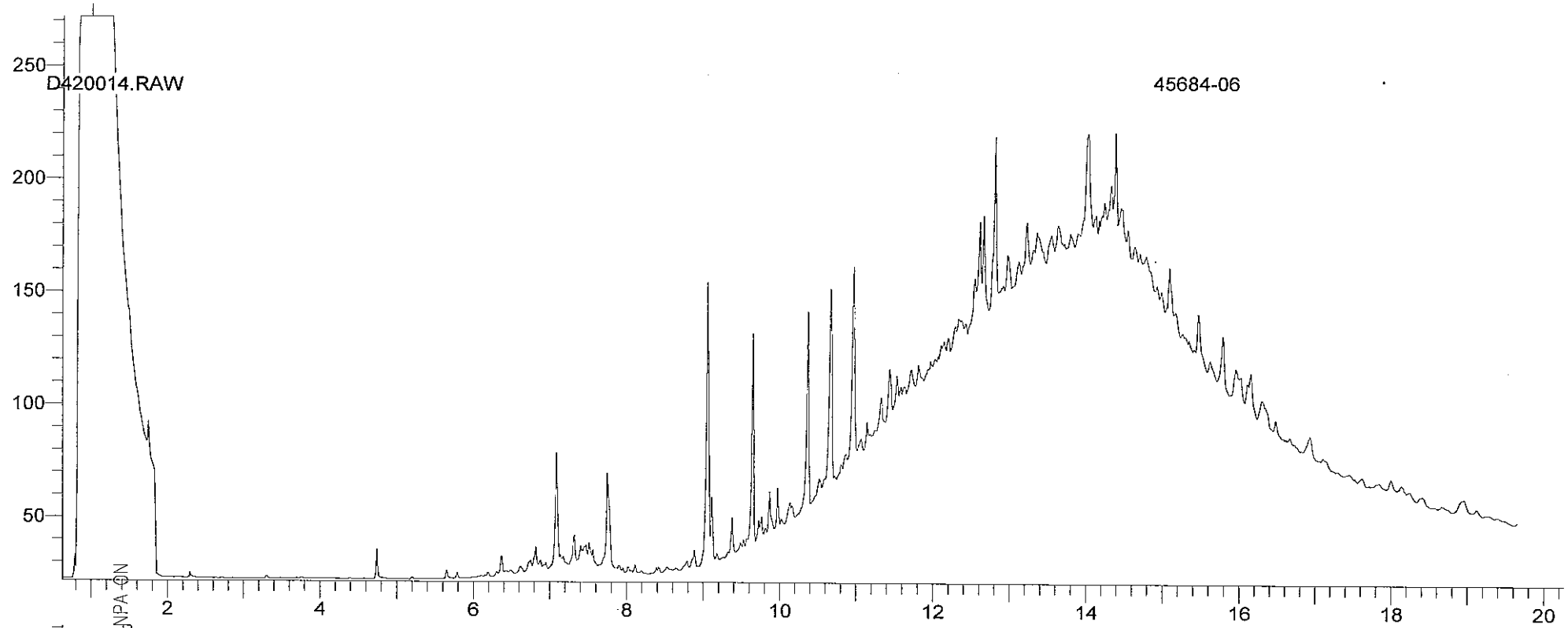
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
04/05/01	04/18/01	04/20/01	MLS	1	SOLID	PS0418B1	98%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	16
C19-C36 Hydrocarbons	360
Total Petroleum Hydrocarbons	380

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	87%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.


D420014.RAW
45684-06
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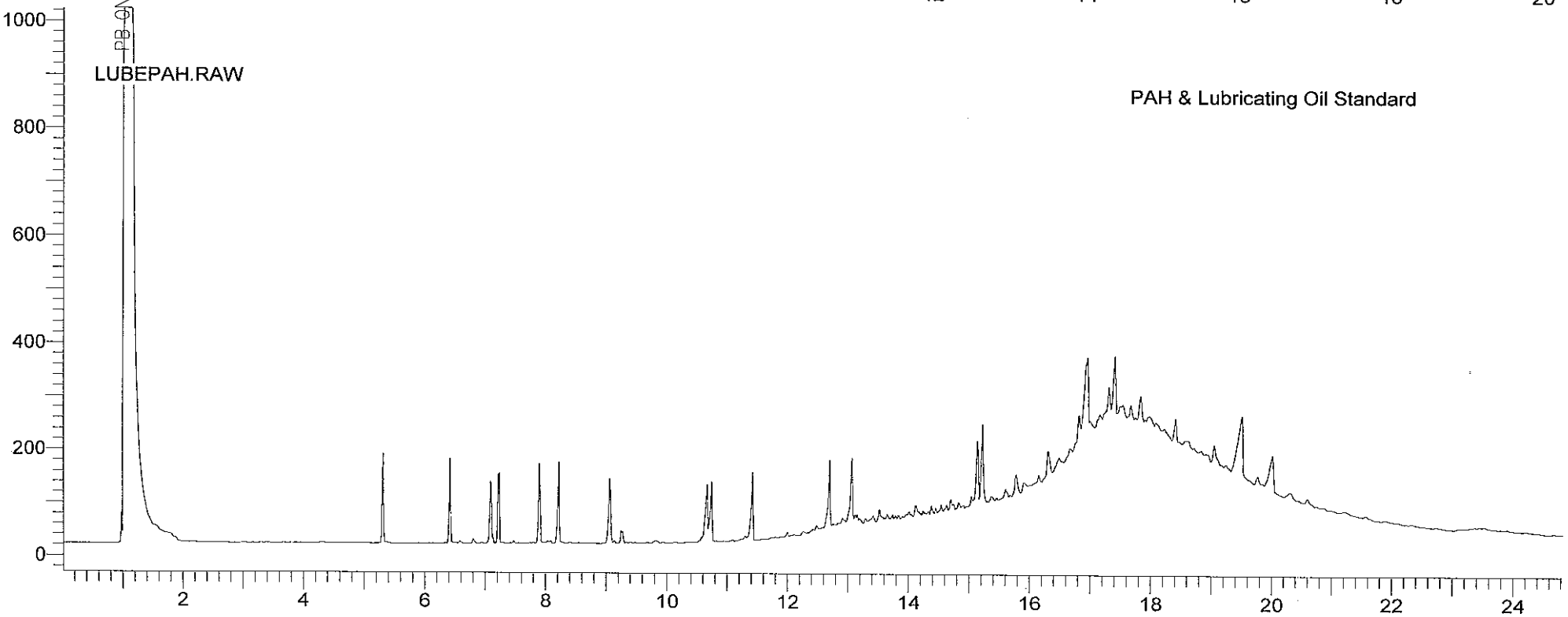
200
150
100
50
2
4
6
8
10
12
14
16
18
20


PB-ONPA-ON
LUBEPAH.RAW
PAH & Lubricating Oil Standard
1000
800
600
400
200
0
2
4
6
8
10
12
14
16
18
20
22
24

Woods Hole Group
Environmental Laboratories
375 Paramount Drive • Suite 2
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental **ETR Number:** 45684

Lab ID Number: 45684-07

Project: Bldg A-85

Sample ID: SBNL14-BCF-3

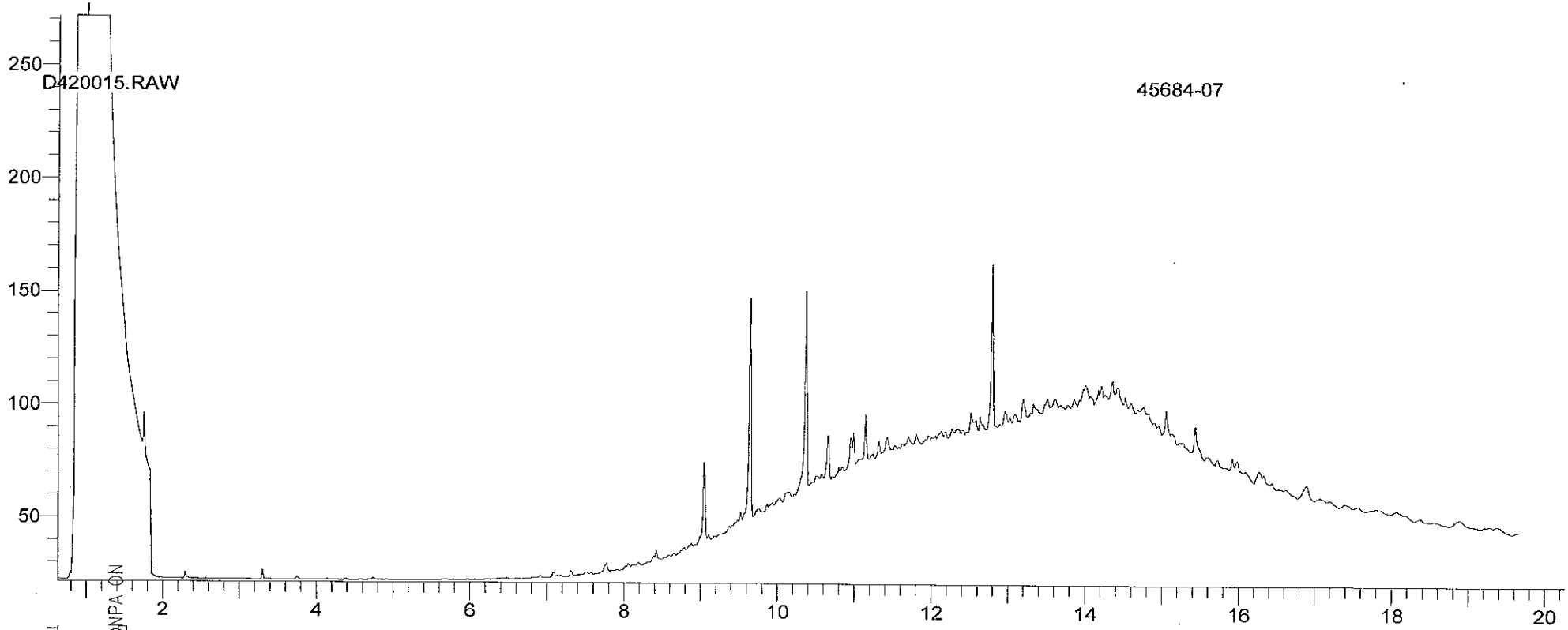
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
04/05/01	04/18/01	04/20/01	MLS	1	SOLID	PS0418B1	99%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	9.0
C19-C36 Hydrocarbons	210
Total Petroleum Hydrocarbons	220

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	101%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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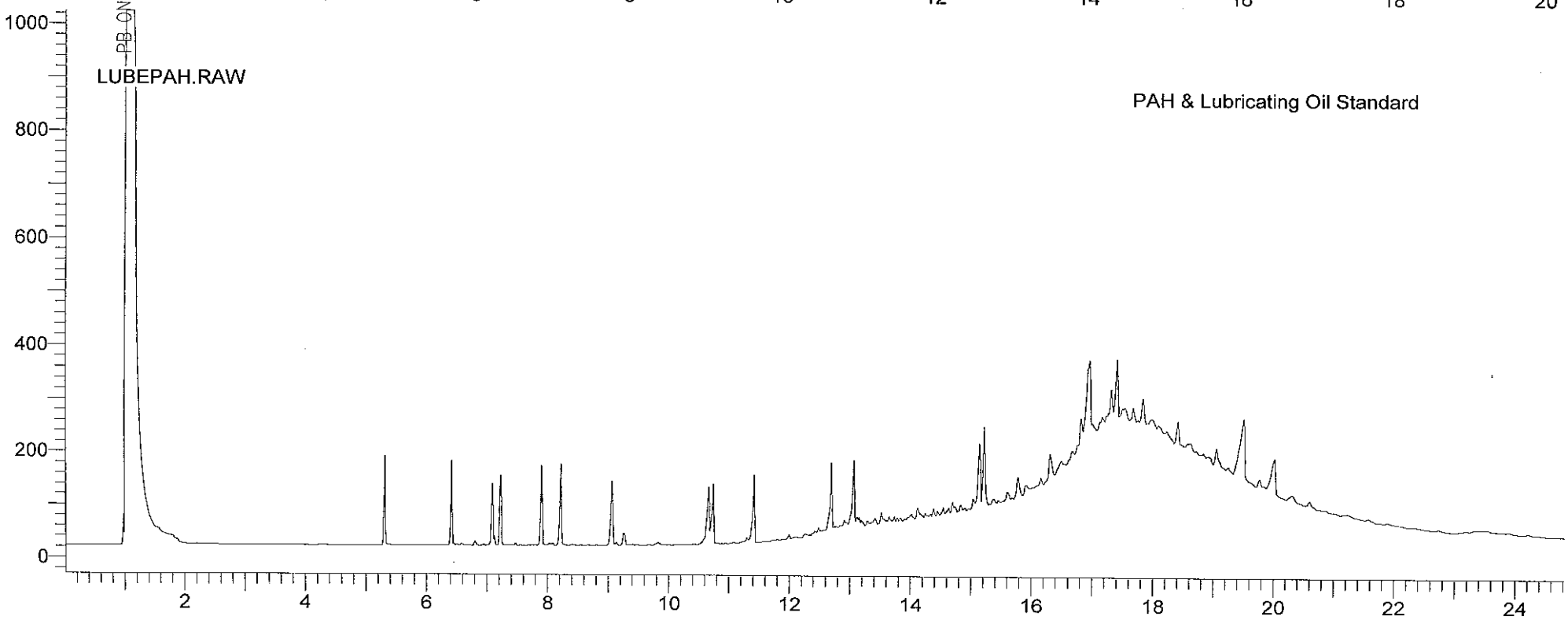
45684-07
250
200
150
100
50
2
4
6
8
10
12
14
16
18
20


PB ONPA ON
LUBEPAH.RAW
PAH & Lubricating Oil Standard
1000
800
600
400
200
0
2
4
6
8
10
12
14
16
18
20
22
24

Woods Hole Group
Environmental Laboratories
375 Paramount Drive • Suite 2
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Quality Control Report

Lab ID Number: PS0418B1

Sample ID: Method Blank							
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	4/18/01	4/20/01	MLS	1	SOIL	N/A	100%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	< 2.0
C19-C36 Hydrocarbons	< 2.0
Total Petroleum Hydrocarbons	< 2.0

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	95%	25%-120%

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Phone: 508-822-9300
Fax: 508-822-3288

Total Petroleum Hydrocarbons by GC/FID

Sample ID:	PS0418L2	Laboratory Control Spike					
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	4/18/01	4/20/01	MLS	1	SOIL	PS0418B1	100%

Parameter	Results in mg/Kg	% Recovery
DIESEL FUEL	178	89%

Amount Spiked: 200 mg/Kg

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	90%	25%-120%

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	BLDG. A-85
ETR:	00145824
Report Date:	05/10/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45824
Project: BLDG. A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerard R. Graham Date: 5-10-01
Woods Hole Group Environmental Laboratories

\\WGHLAB\SYS\REPORT\NARRTEMP\FOSWHE\45824.dot

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Chain-of-Custody Record

Woods Hole Group
Environmental Laboratories

375 Paramount Drive
Raynham, MA 02767

TEL: (508) 822-9300
FAX: (508) 822-3288

45824

PAGE 1 OF 1

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA. 02110
Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-0634
Contact Name: SUE LEACH / KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 4/5/01
Quote #:

TAT ✓ ~~10 Day~~ 5 Day 3 Day 48 Hr 24 Hr Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	40 mL / VOA / NaHSO4	40 mL / VOA / MEOH				NUMBER OF CONTAINERS
~~45824-1~~	~~SBW14-SW-WSS~~	~~4/5/01~~	~~1030~~	~~COMPOSITE~~	~~SOIL~~	~~TPH (IR), VOC, SVOC, PCB, RCRA8, PWS-Ni, Cu, Zn~~	1	2	1				
~~-2~~	~~SW-FSS~~	↓	~~1045~~	↓	↓								
~~-3~~	~~BCC-1~~		~~1100~~	~~GRAB~~	~~SOLID~~								
45824-01	BCC-2		1115			SPLP Cr							
-02	BCF-1		1130			SPLP Cr Pb							
-03	BCF-2		1145			SPLP Cr Pb							
-04	BCF-3	↓	1200	↓	↓	SPLP Cr Pb							

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. Whites	4/5/01	1600	G. R. Graham
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
~~TRIP BLANK INCLUDED~~ Per Sue Leach 5/3/01

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145824
Project: BLDG. A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145824-01	SBNL14-BCC-2	SOLID	04/05/2001 11:15:00 AM	05/03/2001 2:38:00 PM
	Lab Testing: Chromium, SPLP; Digestion, 3010:1T TCLP; SPLP Metals Extraction			
0145824-02	SBNL14-BCF-1	SOLID	04/05/2001 11:30:00 AM	05/03/2001 2:38:00 PM
	Lab Testing: Chromium, SPLP; Digestion, 3010:1T TCLP; Lead, SPLP; SPLP Metals Extraction			
0145824-03	SBNL14-BCF-2	SOLID	04/05/2001 11:45:00 AM	05/03/2001 2:38:00 PM
	Lab Testing: Chromium, SPLP; Digestion, 3010:1T TCLP; Lead, SPLP; SPLP Metals Extraction			
0145824-04	SBNL14-BCF-3	SOLID	04/05/2001 12:00:00 PM	05/03/2001 2:38:00 PM
	Lab Testing: Chromium, SPLP; Digestion, 3010:1T TCLP; Lead, SPLP; SPLP Metals Extraction			

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145824
Project: BLDG. A-85

Sample ID: SBNL14-BCC-2
Lab ID: 0145824-01
Matrix: SOLID
% SOLIDS: 0%
Date Collected: 04/05/2001
Date Received: 05/03/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, SPLP	20	U	µg/L	1	20	6010B	05/08/2001	05/09/2001	DJL

Sample ID: SBNL14-BCF-1
Lab ID: 0145824-02
Matrix: SOLID
% SOLIDS: 0%
Date Collected: 04/05/2001
Date Received: 05/03/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, SPLP	20	U	µg/L	1	20	6010B	05/08/2001	05/09/2001	DJL
Lead, SPLP	200	U	µg/L	1	200	6010B	05/08/2001	05/09/2001	DJL

Sample ID: SBNL14-BCF-2
Lab ID: 0145824-03
Matrix: SOLID
% SOLIDS: 0%
Date Collected: 04/05/2001
Date Received: 05/03/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, SPLP	20	U	µg/L	1	20	6010B	05/08/2001	05/09/2001	DJL
Lead, SPLP	200	U	µg/L	1	200	6010B	05/08/2001	05/09/2001	DJL

Sample ID: SBNL14-BCF-3
Lab ID: 0145824-04
Matrix: SOLID
% SOLIDS: 0%
Date Collected: 04/05/2001
Date Received: 05/03/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Chromium, SPLP	20	U	µg/L	1	20	6010B	05/08/2001	05/09/2001	DJL
Lead, SPLP	200	U	µg/L	1	200	6010B	05/08/2001	05/09/2001	DJL

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: BLDG. A-85
ETR: 45824 SPLP

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (µg/L)	RPD of duplicates	MS added (µg/L)	%recovery matrix spike	LCS conc. (µg/L)	% recovery LCS	Qualifier
Chromium	45824-01	05/09/01	<20	<20	0	1000	92	1000	92	
Lead	45824-01	05/09/01	<200	<200	0	1000	92	1000	94	

Qualifiers & Notes:
B = Reported QC is for associated batch
RPD = relative percent difference
C= Not spiked >1/4 of sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

Woods Hole Group
Environmental Laboratories

FAX

Date: Monday, June 04, 2001

To: Foster Wheeler Environmental Corp.
Susan Leach
Fax: 617-457-8498

From: Woods Hole Group Environmental Labs
Jerry Zschau
Phone: 508-822-9300
Fax: 508-822-3288

Pages: 9

Subject: 8270 RESULTS - BLDG A85
ETR # 45928

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375 PARAMOUNT DRIVE, SUITE B, RAYNHAM, MA. 02767. TEL: 508-822-9300, FAX: 508-822-3288

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	BLDG A-85
ETR:	00145928
Report Date:	06/04/2001

Certificates
Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45928
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Semi-Volatile Organics by GC/MS

1. Due to the basic nature of the concrete matrix of sample SBNL14-BCF-1-A (45928-01) the acid surrogate 2-Fluorophenol was recovered low at 24% (limit 25%).

2. Sample SBNL14-BCF-1-A (45928-01) was analyzed two times, one analysis was without dilution to obtain the lowest possible reporting limits. The undiluted analysis resulted in the compound bis(2-Ethylhexyl)phthalate exceeding the instrument calibration range. The second analysis was at a 1:250 dilution based on historical data. The 1:250 analysis resulted in all compounds being within the instrument calibration range however, due to the high dilution all surrogates were diluted out and were reported with "DL" qualifiers on the report. Both analyses were reported for review.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerard R. Gelber Date: 6-4-01
Woods Hole Group Environmental Laboratories

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Chain-of-Custody Record

Woods Hole Group
375 Paramount Drive
Raynham, MA 02767
TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA. 02110
Telephone: 617-457-8240
Facsimile: 617-457-8499
Contact Name: SUE LEACH

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG A-85
Project Number: D.O. #14
P.O. # 032831
Sampler Name(s): KEVIN WHITE

SHIPPING INFORMATION

Carrier: FWENC
Airbill Number:
Date Shipped: 5/31/01
Quote #:

(TAT IS IN BUSINESS DAYS)
CIRCLE TAT: 10 Day 5 Day 3 Day (48 Hr) 24 Hr Other (IF OTHER NOTE BELOW)

SAMPLE CONTAINERS (NOTE 4)

PRESERVATIVE	N/A					
CONTAINER TYPE	GLASS					
VOLUME	4oz					

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE OR GRAB	MATRIX	ANALYSIS/REMARKS (NOTES 2, 3)	SAMPLER(S) INITIALS	NUMBER OF CONTAINERS					
45925-1	SBNL14-BCF-1-A	5/31/01	1230	GRAB	SOLID	SVOC 8270C	KJW	1					

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. White	5/31/01	3:40	C. R. Jackson
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER(S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145928
Project: BLDG A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145928-01	SBNL14- BCF-1-A	SOIL	05/31/2001 12:30:00 PM	05/31/2001 4:16:00 PM

Lab Testing:

8270C Semivolatile Organics by GC/MS

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- BCF-1-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145928**
Lab ID: **45928-01**
Associated Blank: **SS0531B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
05/31/01	05/31/01	05/31/01	06/01/01	98.3	20.28	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-Chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
n-Nitroso-di-n-propylamine	100	U
4-Methylphenol	100	U
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	100	U
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	100	U
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	200	U
2-Chloronaphthalene	100	U
2-Nitroaniline	200	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	100	U
3-Nitroaniline	200	U

Parameter	Result	
2,4-Dinitrophenol	200	U
Dibenzofuran	100	U
2,4-Dinitrotoluene	100	U
4-Nitrophenol	200	U
Fluorene	81	J
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	98	J
4-Nitroaniline	200	U
4,6-Dinitro-2-methylphenol	200	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	200	U
Phenanthrene	1300	
Anthracene	95	J
Di-n-butylphthalate	100	
Fluoranthene	2100	
Pyrene	1200	
Butylbenzylphthalate	51	J
3,3'-Dichlorobenzidine	100	U
Carbazole	180	
Benz[a]anthracene	400	
Chrysene	590	
bis(2-Ethylhexyl)phthalate	100000	BE
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	660	
Benzo[k]fluoranthene	350	
Benzo[a]pyrene	260	
Indeno[1,2,3-cd]pyrene	200	
Dibenz[a,h]anthracene	100	U
Benzo[g,h,i]perylene	180	

Surrogate	% Recovery		Acceptance Range (%)
2-Fluorophenol	24	§	25-121
Phenol-d5	53		24-113
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	74		30-115
2,4,6-Tribromophenol	28		19-122
Terphenyl-d14	93		18-137

§ - Surrogate value outside of acceptable range.
B - Found in associated blank as well as sample.
E - Estimated value, exceeds the upper limit of calibration.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- BCF-1-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145928**
Lab ID: **45928-01E**
Associated Blank: **SS0531B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
05/31/01	05/31/01	05/31/01	06/01/01	98.3	20.28	1	250	CLM

Parameter	Result		Parameter	Result	
bis(2-Chloroethyl)ether	25000	U	2,4-Dinitrophenol	50000	U
Phenol	25000	U	Dibenzofuran	25000	U
2-Chlorophenol	25000	U	2,4-Dinitrotoluene	25000	U
1,3-Dichlorobenzene	25000	U	4-Nitrophenol	50000	U
1,4-Dichlorobenzene	25000	U	Fluorene	25000	U
1,2-Dichlorobenzene	25000	U	4-Chlorophenyl-phenylether	25000	U
bis(2-Chloroisopropyl)ether	25000	U	Diethylphthalate	25000	U
2-Methylphenol	25000	U	4-Nitroaniline	50000	U
Hexachloroethane	25000	U	4,6-Dinitro-2-methylphenol	50000	U
n-Nitroso-di-n-propylamine	25000	U	n-Nitrosodiphenylamine	25000	U
4-Methylphenol	25000	U	4-Bromophenyl-phenylether	25000	U
Nitrobenzene	25000	U	Hexachlorobenzene	25000	U
Isophorone	25000	U	Pentachlorophenol	50000	U
2-Nitrophenol	25000	U	Phenanthrene	25000	U
2,4-Dimethylphenol	25000	U	Anthracene	25000	U
bis(2-Chloroethoxy)methane	25000	U	Di-n-butylphthalate	25000	U
2,4-Dichlorophenol	25000	U	Fluoranthene	25000	U
1,2,4-Trichlorobenzene	25000	U	Pyrene	25000	U
Naphthalene	25000	U	Butylbenzylphthalate	25000	U
4-Chloroaniline	25000	U	3,3'-Dichlorobenzidine	25000	U
Hexachlorobutadiene	25000	U	Carbazole	25000	U
4-Chloro-3-methylphenol	25000	U	Benz[a]anthracene	25000	U
2-Methylnaphthalene	25000	U	Chrysene	25000	U
Hexachlorocyclopentadiene	25000	U	bis(2-Ethylhexyl)phthalate	**480000**	**B**
2,4,6-Trichlorophenol	25000	U	Di-n-octylphthalate	25000	U
2,4,5-Trichlorophenol	50000	U	Benzo[b]fluoranthene	25000	U
2-Chloronaphthalene	25000	U	Benzo[k]fluoranthene	25000	U
2-Nitroaniline	50000	U	Benzo[a]pyrene	25000	U
Acenaphthylene	25000	U	Indeno[1,2,3-cd]pyrene	25000	U
Dimethylphthalate	25000	U	Dibenz[a,h]anthracene	25000	U
2,6-Dinitrotoluene	25000	U	Benzo[g,h,i]perylene	25000	U
Acenaphthene	25000	U			
3-Nitroaniline	50000	U			

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	DL	25-121
Phenol-d5	DL	24-113
Nitrobenzene-d5	DL	23-120
2-Fluorobiphenyl	DL	30-115
2,4,6-Tribromophenol	DL	19-122
Terphenyl-d14	DL	18-137

B - Found in associated blank as well as sample.
U - The analyte was analyzed for but not detected at the sample specific level reported.
DL - Surrogate diluted out of sample.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: N/A
Client ID: **Method Blank**
Matrix: Soil

Lab Code: **M-MA030**
ETR: **00145928**
Lab ID: **SS0531B2**
Associated Blank: N/A
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	05/31/01	06/01/01	100	20.00	1	1	CLM

Parameter	Result		Parameter	Result	
bis(2-Chloroethyl)ether	100	U	2,4-Dinitrophenol	200	U
Phenol	100	U	Dibenzofuran	100	U
2-Chlorophenol	100	U	2,4-Dinitrotoluene	100	U
1,3-Dichlorobenzene	100	U	4-Nitrophenol	200	U
1,4-Dichlorobenzene	100	U	Fluorene	100	U
1,2-Dichlorobenzene	100	U	4-Chlorophenyl-phenylether	100	U
bis(2-Chloroisopropyl)ether	100	U	Diethylphthalate	100	U
2-Methylphenol	100	U	4-Nitroaniline	200	U
Hexachloroethane	100	U	4,6-Dinitro-2-methylphenol	200	U
n-Nitroso-di-n-propylamine	100	U	n-Nitrosodiphenylamine	100	U
4-Methylphenol	100	U	4-Bromophenyl-phenylether	100	U
Nitrobenzene	100	U	Hexachlorobenzene	100	U
Isophorone	100	U	Pentachlorophenol	200	U
2-Nitrophenol	100	U	Phenanthrene	100	U
2,4-Dimethylphenol	100	U	Anthracene	100	U
bis(2-Chloroethoxy)methane	100	U	Di-n-butylphthalate	100	U
2,4-Dichlorophenol	100	U	Fluoranthene	100	U
1,2,4-Trichlorobenzene	100	U	Pyrene	100	U
Naphthalene	100	U	Butylbenzylphthalate	100	U
4-Chloroaniline	100	U	3,3'-Dichlorobenzidine	100	U
Hexachlorobutadiene	100	U	Carbazole	100	U
4-Chloro-3-methylphenol	100	U	Benz[a]anthracene	100	U
2-Methylnaphthalene	100	U	Chrysene	100	U
Hexachlorocyclopentadiene	100	U	bis(2-Ethylhexyl)phthalate	86	J
2,4,6-Trichlorophenol	100	U	Di-n-octylphthalate	100	U
2,4,5-Trichlorophenol	200	U	Benzo[b]fluoranthene	100	U
2-Chloronaphthalene	100	U	Benzo[k]fluoranthene	100	U
2-Nitroaniline	200	U	Benzo[a]pyrene	100	U
Acenaphthylene	100	U	Indeno[1,2,3-cd]pyrene	100	U
Dimethylphthalate	100	U	Dibenz[a,h]anthracene	100	U
2,6-Dinitrotoluene	100	U	Benzo[g,h,i]perylene	100	U
Acenaphthene	100	U			
3-Nitroaniline	200	U			

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	70	25-121
Phenol-d5	72	24-113
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	62	19-122
Terphenyl-d14	97	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145928**
Lab ID: **SS0531L5**
Associated Blank: **SS0531B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	05/31/01	100	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	7000	70	26-90
2-Chlorophenol	7600	76	25-102
1,4-Dichlorobenzene	2800	57	28-104
n-Nitroso-di-n-propylamine	3900	77	41-126
1,2,4-Trichlorobenzene	3000	61	38-107
4-Chloro-3-methylphenol	7300	73	26-103
Acenaphthene	3400	67	31-137
2,4-Dinitrotoluene	3700	75	28-89
4-Nitrophenol	7700	77	11-114
Pentachlorophenol	7700	77	17-109
Pyrene	4200	85	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	73	25-121
Phenol-d5	76	24-113
Nitrobenzene-d5	67	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	76	19-122
Terphenyl-d14	92	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	BLDG A-85
ETR:	00145928
Report Date:	06/04/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45928
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Semi-Volatile Organics by GC/MS

1. Due to the basic nature of the concrete matrix of sample SBNL14-BCF-1-A (45928-01) the acid surrogate 2-Fluorophenol was recovered low at 24% (limit 25%).

2. Sample SBNL14-BCF-1-A (45928-01) was analyzed two times, one analysis was without dilution to obtain the lowest possible reporting limits. The undiluted analysis resulted in the compound bis(2-Ethylhexyl)phthalate exceeding the instrument calibration range. The second analysis was at a 1:250 dilution based on historical data. The 1:250 analysis resulted in all compounds being within the instrument calibration range however, due to the high dilution all surrogates were diluted out and were reported with "DL" qualifiers on the report. Both analyses were reported for review.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerald R. Tucker Date: 6-4-01
Woods Hole Group Environmental Laboratories

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Chain-of-Custody Record

Woods Hole Group

375 Paramount Drive
Raynham, MA 02767

TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA. 02110
Telephone: 617-457-8240
Facsimile: 617-457-8499
Contact Name: SUE LEACH

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG A-85
Project Number: D.O. #14
P.O. # 032831
Sampler Name(s): KEVIN WHITE

SHIPPING INFORMATION

Carrier: FWENC
Airbill Number:
Date Shipped: 5/31/01
Quote #:

(TAT IS IN BUSINESS DAYS)
CIRCLE TAT: 10 Day 5 Day 3 Day (48 Hr) 24 Hr Other (IF OTHER NOTE BELOW)

SAMPLE CONTAINERS (NOTE 4)

PRESERVATIVE	N/A					
CONTAINER TYPE	GLASS					
VOLUME	4oz					

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE OR GRAB	MATRIX	ANALYSIS/REMARKS (NOTES 2, 3)	SAMPLER(S) INTIALS	NUMBER OF CONTAINERS					
45928-1	SBNL14-BCF-1-A	5/31/01	1230	GRAB	SOLID	SVOC 8270C	KJW	1					

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
[signature]	5/31/01	3:40	[signature]
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER(S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145928
Project: BLDG A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145928-01	SBNL14- BCF-1-A	SOIL	05/31/2001 12:30:00 PM	05/31/2001 4:16:00 PM

Lab Testing:

8270C Semivolatile Organics by GC/MS

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- BCF-1-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145928**
Lab ID: **45928-01**
Associated Blank: **SS0531B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
05/31/01	05/31/01	05/31/01	06/01/01	98.3	20.28	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-Chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
n-Nitroso-di-n-propylamine	100	U
4-Methylphenol	100	U
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	100	U
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	100	U
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	200	U
2-Chloronaphthalene	100	U
2-Nitroaniline	200	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	100	U
3-Nitroaniline	200	U

Parameter	Result	
2,4-Dinitrophenol	200	U
Dibenzofuran	100	U
2,4-Dinitrotoluene	100	U
4-Nitrophenol	200	U
Fluorene	**81**	J
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	**98**	J
4-Nitroaniline	200	U
4,6-Dinitro-2-methylphenol	200	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	200	U
Phenanthrene	**1300**	
Anthracene	**95**	J
Di-n-butylphthalate	**100**	
Fluoranthene	**2100**	
Pyrene	**1200**	
Butylbenzylphthalate	**51**	J
3,3'-Dichlorobenzidine	100	U
Carbazole	**180**	
Benz[a]anthracene	**400**	
Chrysene	**590**	
bis(2-Ethylhexyl)phthalate	**100000**	BE
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	**660**	
Benzo[k]fluoranthene	**350**	
Benzo[a]pyrene	**260**	
Indeno[1,2,3-cd]pyrene	**200**	
Dibenz[a,h]anthracene	100	U
Benzo[g,h,i]perylene	**180**	

Surrogate	% Recovery		Acceptance Range (%)
2-Fluorophenol	24	§	25-121
Phenol-d5	53		24-113
Nitrobenzene-d5	64		23-120
2-Fluorobiphenyl	74		30-115
2,4,6-Tribromophenol	28		19-122
Terphenyl-d14	93		18-137

§ - Surrogate value outside of acceptable range.
B - Found in associated blank as well as sample.
E - Estimated value, exceeds the upper limit of calibration.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- BCF-1-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145928**
Lab ID: **45928-01E**
Associated Blank: **SS0531B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
05/31/01	05/31/01	05/31/01	06/01/01	98.3	20.28	1	250	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	25000	U
Phenol	25000	U
2-Chlorophenol	25000	U
1,3-Dichlorobenzene	25000	U
1,4-Dichlorobenzene	25000	U
1,2-Dichlorobenzene	25000	U
bis(2-Chloroisopropyl)ether	25000	U
2-Methylphenol	25000	U
Hexachloroethane	25000	U
n-Nitroso-di-n-propylamine	25000	U
4-Methylphenol	25000	U
Nitrobenzene	25000	U
Isophorone	25000	U
2-Nitrophenol	25000	U
2,4-Dimethylphenol	25000	U
bis(2-Chloroethoxy)methane	25000	U
2,4-Dichlorophenol	25000	U
1,2,4-Trichlorobenzene	25000	U
Naphthalene	25000	U
4-Chloroaniline	25000	U
Hexachlorobutadiene	25000	U
4-Chloro-3-methylphenol	25000	U
2-Methylnaphthalene	25000	U
Hexachlorocyclopentadiene	25000	U
2,4,6-Trichlorophenol	25000	U
2,4,5-Trichlorophenol	50000	U
2-Chloronaphthalene	25000	U
2-Nitroaniline	50000	U
Acenaphthylene	25000	U
Dimethylphthalate	25000	U
2,6-Dinitrotoluene	25000	U
Acenaphthene	25000	U
3-Nitroaniline	50000	U

Parameter	Result	
2,4-Dinitrophenol	50000	U
Dibenzofuran	25000	U
2,4-Dinitrotoluene	25000	U
4-Nitrophenol	50000	U
Fluorene	25000	U
4-Chlorophenyl-phenylether	25000	U
Diethylphthalate	25000	U
4-Nitroaniline	50000	U
4,6-Dinitro-2-methylphenol	50000	U
n-Nitrosodiphenylamine	25000	U
4-Bromophenyl-phenylether	25000	U
Hexachlorobenzene	25000	U
Pentachlorophenol	50000	U
Phenanthrene	25000	U
Anthracene	25000	U
Di-n-butylphthalate	25000	U
Fluoranthene	25000	U
Pyrene	25000	U
Butylbenzylphthalate	25000	U
3,3'-Dichlorobenzidine	25000	U
Carbazole	25000	U
Benz[a]anthracene	25000	U
Chrysene	25000	U
bis(2-Ethylhexyl)phthalate	**480000**	B
Di-n-octylphthalate	25000	U
Benzo[b]fluoranthene	25000	U
Benzo[k]fluoranthene	25000	U
Benzo[a]pyrene	25000	U
Indeno[1,2,3-cd]pyrene	25000	U
Dibenz[a,h]anthracene	25000	U
Benzo[g,h,i]perylene	25000	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	DL	25-121
Phenol-d5	DL	24-113
Nitrobenzene-d5	DL	23-120
2-Fluorobiphenyl	DL	30-115
2,4,6-Tribromophenol	DL	19-122
Terphenyl-d14	DL	18-137

B - Found in associated blank as well as sample.
U - The analyte was analyzed for but not detected at the sample specific level reported.
DL - Surrogate diluted out of sample.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145928**
Lab ID: **SS0531B2**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	05/31/01	06/01/01	100	20.00	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	100	U
Phenol	100	U
2-Chlorophenol	100	U
1,3-Dichlorobenzene	100	U
1,4-Dichlorobenzene	100	U
1,2-Dichlorobenzene	100	U
bis(2-Chloroisopropyl)ether	100	U
2-Methylphenol	100	U
Hexachloroethane	100	U
n-Nitroso-di-n-propylamine	100	U
4-Methylphenol	100	U
Nitrobenzene	100	U
Isophorone	100	U
2-Nitrophenol	100	U
2,4-Dimethylphenol	100	U
bis(2-Chloroethoxy)methane	100	U
2,4-Dichlorophenol	100	U
1,2,4-Trichlorobenzene	100	U
Naphthalene	100	U
4-Chloroaniline	100	U
Hexachlorobutadiene	100	U
4-Chloro-3-methylphenol	100	U
2-Methylnaphthalene	100	U
Hexachlorocyclopentadiene	100	U
2,4,6-Trichlorophenol	100	U
2,4,5-Trichlorophenol	200	U
2-Chloronaphthalene	100	U
2-Nitroaniline	200	U
Acenaphthylene	100	U
Dimethylphthalate	100	U
2,6-Dinitrotoluene	100	U
Acenaphthene	100	U
3-Nitroaniline	200	U

Parameter	Result	
2,4-Dinitrophenol	200	U
Dibenzofuran	100	U
2,4-Dinitrotoluene	100	U
4-Nitrophenol	200	U
Fluorene	100	U
4-Chlorophenyl-phenylether	100	U
Diethylphthalate	100	U
4-Nitroaniline	200	U
4,6-Dinitro-2-methylphenol	200	U
n-Nitrosodiphenylamine	100	U
4-Bromophenyl-phenylether	100	U
Hexachlorobenzene	100	U
Pentachlorophenol	200	U
Phenanthrene	100	U
Anthracene	100	U
Di-n-butylphthalate	100	U
Fluoranthene	100	U
Pyrene	100	U
Butylbenzylphthalate	100	U
3,3'-Dichlorobenzidine	100	U
Carbazole	100	U
Benz[a]anthracene	100	U
Chrysene	100	U
bis(2-Ethylhexyl)phthalate	**86**	J
Di-n-octylphthalate	100	U
Benzo[b]fluoranthene	100	U
Benzo[k]fluoranthene	100	U
Benzo[a]pyrene	100	U
Indeno[1,2,3-cd]pyrene	100	U
Dibenz[a,h]anthracene	100	U
Benzo[g,h,i]perylene	100	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	70	25-121
Phenol-d5	72	24-113
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	60	30-115
2,4,6-Tribromophenol	62	19-122
Terphenyl-d14	97	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145928**
Lab ID: **SS0531L5**
Associated Blank: **SS0531B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	05/31/01	100	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	7000	70	26-90
2-Chlorophenol	7600	76	25-102
1,4-Dichlorobenzene	2800	57	28-104
n-Nitroso-di-n-propylamine	3900	77	41-126
1,2,4-Trichlorobenzene	3000	61	38-107
4-Chloro-3-methylphenol	7300	73	26-103
Acenaphthene	3400	67	31-137
2,4-Dinitrotoluene	3700	75	28-89
4-Nitrophenol	7700	77	11-114
Pentachlorophenol	7700	77	17-109
Pyrene	4200	85	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	73	25-121
Phenol-d5	76	24-113
Nitrobenzene-d5	67	23-120
2-Fluorobiphenyl	68	30-115
2,4,6-Tribromophenol	76	19-122
Terphenyl-d14	92	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	BLDG A-85
ETR:	00146053
Report Date:	07/10/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 46053
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Semi-Volatile Organics by GC/MS

1. Sample BCFI-B (46053-03) was initially analyzed without dilution resulting in Isophorone exceeding the instrument calibration range. The sample was re-analyzed at a 1:10 dilution. Both analyses were reported to obtain the lowest possible reporting limits.

2. Due to the basic nature of the concrete matrix of sample BCFI-B (46053-03) the acid surrogates 2-Fluorophenol, Phenol-d5 and 2,4,6-Tribromophenol were recovered below QC limits in both analyses.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerard R. Parker Date: 7-10-01
Woods Hole Group Environmental Laboratories

Chain-of-Custody Record

Woods Hole Group

375 Paramount Drive
Raynham, MA 02767

TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: Foster Wheeler Environmental
Address: 133 Federal St. 6th floor
Boston, MA 02110
Telephone: (617) 457-8240
Facsimile: (617) 457-8488
Contact Name: Sue Leach

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name:
Project Number:
P.O. #
Sampler Name(s):

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped:
Quote #:

(TAT IS IN BUSINESS DAYS) (IF OTHER NOTE BELOW)
CIRCLE TAT: 10 Day 5 Day 3 Day 48 Hr 24 Hr Other

SAMPLE CONTAINERS (NOTE 4)

PRESERVATIVE	N/A
CONTAINER TYPE	Glass
VOLUME	4oz

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE OR GRAB	MATRIX	ANALYSIS/REMARKS (NOTES 2, 3)	SAMPLER(S) INTIALS	NUMBER OF CONTAINERS
46053-1	A1-1NESW-A	6-29-01	1200		SOIL	SPLP Arsenic	SH	1
2	A1-1NSW-A	6-29-01	1200		SOIL	Arsenic + Lead	SH	1
3	BCF1-B	6-29-01	1210		CONCRETE	SVOCs, SPLP Lead	SH	1
4	BCF2-A	6-29-01	1220		CONCRETE	SPLP Lead, SPLP Mercury, SPLP Silver	SH	1
5	BCF3-A	6-29-01	1230		CONCRETE	SPLP Lead, SPLP Mercury, SPLP Silver	SH	1

FED EX

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Sue Hoth	6-29-01	1500	Mana Rose
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
FED EX	6/30	9:00	
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER(S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:
5 day turnaround time

We cannot accept verbal changes. Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00146053
Project: BLDG A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0146053-01	A1-1NESW-A	SOIL	06/29/201 12:00:00 PM	06/30/2001 9:00:00 AM

Lab Testing:

Arsenic, SPLP
Digestion, 3010:1T TCLP
SPLP Metals Extraction

0146053-02	A1-1NSW-A	SOIL	06/29/201 12:00:00 PM	06/30/2001 9:00:00 AM

Lab Testing:

Arsenic - 6010B
Digestion - 3050:1T
Lead - 6010B

0146053-03	BCF1-B	SOLID	06/29/201 12:10:00 PM	06/30/2001 9:00:00 AM

Lab Testing:

8270C Semivolatile Organics by GC/MS
Digestion, 3010:1T TCLP
Lead, SPLP
SPLP Metals Extraction

0146053-04	BCF2-A	SOLID	06/29/201 12:20:00 PM	06/30/2001 9:00:00 AM

Lab Testing:

Digestion, 3010:1T TCLP
Lead, SPLP
Mercury, SPLP
Silver, SPLP
SPLP Metals Extraction

0146053-05	BCF3-A	SOLID	06/29/201 12:30:00 PM	06/30/2001 9:00:00 AM

Lab Testing:

Digestion, 3010:1T TCLP
Lead, SPLP
Mercury, SPLP
Silver, SPLP
SPLP Metals Extraction

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **BCF1-B**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00146053**
Lab ID: **46053-03**
Associated Blank: **SS0703B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/29/01	06/30/01	07/03/01	07/05/01	97.8	20.26	1	1	AJA

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-Chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
n-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	**29000**	E
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	500	U

Parameter	Result	
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	**100**	J
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	**150**	J
Pyrene	**120**	J
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	**68**	J
Chrysene	**68**	J
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	**64**	J
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	**56**	J
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery		Acceptance Range (%)
2-Fluorophenol	8	§	25-121
Phenol-d5	23	§	24-113
Nitrobenzene-d5	69		23-120
2-Fluorobiphenyl	73		30-115
2,4,6-Tribromophenol	0	§	19-122
Terphenyl-d14	75		18-137

§ - Surrogate value outside of acceptable range.
E - Estimated value, exceeds the upper limit of calibration.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

07/05/01 13:55

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **BCF1-B**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00146053**
Lab ID: **46053-03E**
Associated Blank: **SS0703B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
06/29/01	06/30/01	07/03/01	07/05/01	97.8	20.26	1	10	AJA

Parameter	Result	
bis(2-Chloroethyl)ether	2500	U
Phenol	2500	U
2-Chlorophenol	2500	U
1,3-Dichlorobenzene	2500	U
1,4-Dichlorobenzene	2500	U
1,2-Dichlorobenzene	2500	U
bis(2-Chloroisopropyl)ether	2500	U
2-Methylphenol	2500	U
Hexachloroethane	2500	U
n-Nitroso-di-n-propylamine	2500	U
4-Methylphenol	2500	U
Nitrobenzene	2500	U
Isophorone	**46000**	
2-Nitrophenol	2500	U
2,4-Dimethylphenol	2500	U
bis(2-Chloroethoxy)methane	2500	U
2,4-Dichlorophenol	2500	U
1,2,4-Trichlorobenzene	2500	U
Naphthalene	2500	U
4-Chloroaniline	2500	U
Hexachlorobutadiene	2500	U
4-Chloro-3-methylphenol	2500	U
2-Methylnaphthalene	2500	U
Hexachlorocyclopentadiene	2500	U
2,4,6-Trichlorophenol	2500	U
2,4,5-Trichlorophenol	5000	U
2-Chloronaphthalene	2500	U
2-Nitroaniline	5000	U
Acenaphthylene	2500	U
Dimethylphthalate	2500	U
2,6-Dinitrotoluene	2500	U
Acenaphthene	2500	U
3-Nitroaniline	5000	U

Parameter	Result	
2,4-Dinitrophenol	5000	U
Dibenzofuran	2500	U
2,4-Dinitrotoluene	2500	U
4-Nitrophenol	5000	U
Fluorene	2500	U
4-Chlorophenyl-phenylether	2500	U
Diethylphthalate	2500	U
4-Nitroaniline	5000	U
4,6-Dinitro-2-methylphenol	5000	U
n-Nitrosodiphenylamine	2500	U
4-Bromophenyl-phenylether	2500	U
Hexachlorobenzene	2500	U
Pentachlorophenol	5000	U
Phenanthrene	2500	U
Anthracene	2500	U
Di-n-butylphthalate	2500	U
Fluoranthene	2500	U
Pyrene	2500	U
Butylbenzylphthalate	2500	U
3,3'-Dichlorobenzidine	2500	U
Carbazole	2500	U
Benz[a]anthracene	2500	U
Chrysene	2500	U
bis(2-Ethylhexyl)phthalate	2500	U
Di-n-octylphthalate	2500	U
Benzo[b]fluoranthene	2500	U
Benzo[k]fluoranthene	2500	U
Benzo[a]pyrene	2500	U
Indeno[1,2,3-cd]pyrene	2500	U
Dibenz[a,h]anthracene	2500	U
Benzo[g,h,i]perylene	2500	U

Surrogate	% Recovery		Acceptance Range (%)
2-Fluorophenol	0	§	25-121
Phenol-d5	21	§	24-113
Nitrobenzene-d5	66		23-120
2-Fluorobiphenyl	71		30-115
2,4,6-Tribromophenol	0	§	19-122
Terphenyl-d14	76		18-137

§ - Surrogate value outside of acceptable range.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

07/05/01 14:23

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00146053**
Lab ID: **SS0703B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	07/03/01	07/05/01	100	20.00	1	1	AJA

Parameter	Result		Parameter	Result	
bis(2-Chloroethyl)ether	250	U	2,4-Dinitrophenol	500	U
Phenol	250	U	Dibenzofuran	250	U
2-Chlorophenol	250	U	2,4-Dinitrotoluene	250	U
1,3-Dichlorobenzene	250	U	4-Nitrophenol	500	U
1,4-Dichlorobenzene	250	U	Fluorene	250	U
1,2-Dichlorobenzene	250	U	4-Chlorophenyl-phenylether	250	U
bis(2-Chloroisopropyl)ether	250	U	Diethylphthalate	250	U
2-Methylphenol	250	U	4-Nitroaniline	500	U
Hexachloroethane	250	U	4,6-Dinitro-2-methylphenol	500	U
n-Nitroso-di-n-propylamine	250	U	n-Nitrosodiphenylamine	250	U
4-Methylphenol	250	U	4-Bromophenyl-phenylether	250	U
Nitrobenzene	250	U	Hexachlorobenzene	250	U
Isophorone	250	U	Pentachlorophenol	500	U
2-Nitrophenol	250	U	Phenanthrene	250	U
2,4-Dimethylphenol	250	U	Anthracene	250	U
bis(2-Chloroethoxy)methane	250	U	Di-n-butylphthalate	250	U
2,4-Dichlorophenol	250	U	Fluoranthene	250	U
1,2,4-Trichlorobenzene	250	U	Pyrene	250	U
Naphthalene	250	U	Butylbenzylphthalate	250	U
4-Chloroaniline	250	U	3,3'-Dichlorobenzidine	250	U
Hexachlorobutadiene	250	U	Carbazole	250	U
4-Chloro-3-methylphenol	250	U	Benz[a]anthracene	250	U
2-Methylnaphthalene	250	U	Chrysene	250	U
Hexachlorocyclopentadiene	250	U	bis(2-Ethylhexyl)phthalate	250	U
2,4,6-Trichlorophenol	250	U	Di-n-octylphthalate	250	U
2,4,5-Trichlorophenol	500	U	Benzo[b]fluoranthene	250	U
2-Chloronaphthalene	250	U	Benzo[k]fluoranthene	250	U
2-Nitroaniline	500	U	Benzo[a]pyrene	250	U
Acenaphthylene	250	U	Indeno[1,2,3-cd]pyrene	250	U
Dimethylphthalate	250	U	Dibenz[a,h]anthracene	250	U
2,6-Dinitrotoluene	250	U	Benzo[g,h,i]perylene	250	U
Acenaphthene	250	U			
3-Nitroaniline	500	U			

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	80	25-121
Phenol-d5	79	24-113
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	74	30-115
2,4,6-Tribromophenol	84	19-122
Terphenyl-d14	81	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

07/05/01 13:54

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00146053**
Lab ID: **SS0703L1**
Associated Blank: **SS0703B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	07/03/01	100	AJA

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	6800	68	26-90
2-Chlorophenol	7500	75	25-102
1,4-Dichlorobenzene	3100	63	28-104
n-Nitroso-di-n-propylamine	3700	75	41-126
1,2,4-Trichlorobenzene	3600	72	38-107
4-Chloro-3-methylphenol	7400	74	26-103
Acenaphthene	3400	69	31-137
2,4-Dinitrotoluene	3500	70	28-89
4-Nitrophenol	6700	67	11-114
Pentachlorophenol	6800	68	17-109
Pyrene	3600	72	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	76	25-121
Phenol-d5	73	24-113
Nitrobenzene-d5	72	23-120
2-Fluorobiphenyl	67	30-115
2,4,6-Tribromophenol	78	19-122
Terphenyl-d14	75	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

07/05/01 13:55

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	BLDG A-85
ETR:	00146053
Report Date:	07/12/2001

Certificates
Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00146053
Project: BLDG A-85

Sample ID: A1-1NESW-A
Lab ID: 0146053-01
Matrix: SOIL
% SOLIDS: 96%
Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Extractable	200	U	µg/L	1	200	6010B	07/06/2001	07/06/2001	DJL

Sample ID: A1-1NSW-A
Lab ID: 0146053-02
Matrix: SOIL
% SOLIDS: 94%
Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	10	U	mg/kg dry	1	10	6010B	07/03/2001	07/12/2001	CLM
Lead, Total	16	U	mg/kg dry	1	16	6010B	07/03/2001	07/06/2001	CLM

Sample ID: BCF1-B
Lab ID: 0146053-03
Matrix: SOLID
% SOLIDS: 98%
Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, SPLP	150	U	µg/L	1	150	6010B	07/06/2001	07/12/2001	DJL

Sample ID: BCF2-A
Lab ID: 0146053-04
Matrix: SOLID
% SOLIDS: 95%
Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, SPLP	150	U	µg/L	1	150	6010B	07/06/2001	07/12/2001	DJL
Mercury, Extractable	.20	U	µg/L	2	0.20	7470	07/06/2001	07/06/2001	CCW
Silver, Extractable	20	U	µg/L	1	20	6010B	07/06/2001	07/06/2001	DJL

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00146053
Project: BLDG A-85

Sample ID: BCF3-A
Lab ID: 0146053-05

Matrix: SOLID
% SOLIDS: 98%

Date Collected: 06/29/201
Date Received: 06/30/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, SPLP	150	U	µg/L	1	150	6010B	07/06/2001	07/12/2001	DJL
Mercury, Extractable	0.20	U	µg/L	2	0.20	7470	07/06/2001	07/06/2001	CCW
Silver, Extractable	22		µg/L	1	20	6010B	07/06/2001	07/06/2001	DJL

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Woods Hole Group
Environmental Laboratories

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: BLDG A-85
ETR: 46053

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	Qualifier
Arsenic	46046-01	07/06/01	<200	<10	0	322	88	47.5	95	B
Lead	46046-01	07/06/01	<150	<16	0	322	87	186	95	B

Qualifiers & Notes:
B = Reported QC is for associated batch
LCS = laboratory control standard
RPD = relative percent difference
C= Not spiked >1/4 sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

Woods Hole Group
Environmental Laboratories

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: BLDG A-85
ETR: 46053

SPLP

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (µg/L)	RPD of duplicates	MS added (µg/L)	%recovery matrix spike	LCS conc. (µg/L)	% recovery LCS	Qualifier
Arsenic	46053-05	07/06/01	<200	<200	0	1000	118	1000	92	
Lead	46053-05	07/06/01	<150	<150	0	1000	114	1000	90	
Mercury	46053-05	07/06/01	<0.20	<0.20	0	20	113	8.0	114	
Silver	46053-05	07/06/01	<20	22	4	400	109	400	104	

Qualifiers & Notes:
B = Reported QC is for associated batch
RPD = relative percent difference
C= Not spiked >1/4 of sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

Appendix E-1

Waste Characterization Laboratory Analytical Results
Building A-85 Bunker Concrete Demolition Debris (CP)

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project: BLDG A-85

ETR: 00145542

Report Date: 03/12/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45542
Project: BLDG A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Metals

1. Sample SBNL14 CP (45542-01) was digested and analyzed in duplicate with a matrix spike. All QC measures were within acceptance criteria except for the following:

   Arsenic: The RPD between duplicates was 43% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: _____ Date: 3-12-01
Woods Hole Group Environmental Laboratories

\\WGHLAB\SYS\SHARED\NARRTEMP\45542.dot

Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767
TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA. 02110
Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: S. LEACH / K. WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG A-85
Project Number: D.O. 14
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/8/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	40ml / VOA / MEOH	40ml / VOA / NaHSO4			
45542-1 ~~45542-1~~ NAK 3/8/01	SBNL14 CP	3/8/01	1115	COMP.	SOLID	VOC		2	1			
↓	SBNL14 CP	3/8/01	1115	COMP	SOLID	PCB, SVOC, RCRA METALS	1					

NUMBER OF CONTAINERS

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. Whitt	3/8/01	14:10	K. Bates
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145542
Project: BLDG A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145542-01	SBNL14 CP	SOLID	03/08/2001 11:15:00 AM	03/08/2001 2:10:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Arsenic - 6020
Barium - 6010B
Cadmium - 6010B
Chromium - 6010B
Digestion - 3050:1T
Digestion - 3050:2T
Lead - 6010B
Mercury - 7471
Metals Analysis
Selenium - 6020
Silver - 6010B

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145542
Project: BLDG A-85

Sample ID: SBNL14 CP
Lab ID: 0145542-01

Matrix: SOLID
% SOLIDS: 87%

Date Collected: 03/08/2001
Date Received: 03/08/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	5.6		mg/kg dry	5	0.16	6020	03/08/2001	03/09/2001	LMR
Barium, Total	58		mg/kg dry	1	1.4	6010B	03/09/2001	03/09/2001	CLM
Cadmium, Total	0.72	U	mg/kg dry	1	0.72	6010B	03/09/2001	03/09/2001	CLM
Chromium, Total	38		mg/kg dry	1	1.4	6010B	03/09/2001	03/09/2001	CLM
Lead, Total	14	U	mg/kg dry	1	14	6010B	03/09/2001	03/09/2001	CLM
Mercury, Total	0.010	U	mg/kg dry	1	0.010	7471	03/08/2001	03/09/2001	DJL
Selenium, Total	0.16	U	mg/kg dry	5	0.16	6020	03/08/2001	03/12/2001	LMR
Silver, Total	14	U	mg/kg dry	10	14	6010B	03/09/2001	03/09/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: BLDG A-85
ETR: 45542

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	quali -fier
Arsenic	45542-01	03/09/01	<2.5	5.6	43	3.17	79	136	97	N
Barium	45542-01	03/09/01	<20	58	0	301	93	124	95	
Cadmium	45542-01	03/09/01	<10	<0.72	0	150	84	118	97	
Chromium	45542-01	03/09/01	<20	38	15	301	87	89.3	99	
Lead	45542-01	03/09/01	<200	<14	0	301	82	138	93	
Mercury	45542-01	03/09/01	<0.2	<0.010	0	0.24	104	2.48	113	
Selenium	45542-01	03/12/01	<2.5	<0.16	0	3.17	96	95.0	105	
Silver	45542-01	03/09/01	<20	<14	0	30.1	102	119	93	

Qualifiers & Notes:
B = Reported QC is for associated batch
LCS = laboratory control standard
RPD = relative percent difference
C= Not spiked >1/4 sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 CP**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145542**
Lab ID: **45542-01**
Associated Blank: **B2030802**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/08/01	03/08/01	03/08/01	87.1	4.19	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.7	U	2-Hexanone	2.7	U
Chloromethane	2.7	U	Tetrachloroethene	2.7	U
Vinyl chloride	2.7	U	1,3-Dichloropropane	2.7	U
Bromomethane	2.7	U	Dibromochloromethane	2.7	U
Chloroethane	2.7	U	1,2-Dibromoethane	2.7	U
Trichlorofluoromethane	2.7	U	Chlorobenzene	2.7	U
Acetone	**26**	B	1,1,1,2-Tetrachloroethane	2.7	U
1,1-Dichloroethene	2.7	U	Ethylbenzene	2.7	U
Carbon disulfide	2.7	U	p/m-Xylene	2.7	U
Methylene chloride	**5.1**	JB	o-Xylene	2.7	U
Methyl tert-butyl ether (MTBE)	2.7	U	Styrene	2.7	U
trans-1,2-Dichloroethene	2.7	U	Bromoform	2.7	U
1,1-Dichloroethane	2.7	U	Isopropylbenzene	2.7	U
Vinyl acetate	2.7	U	1,1,2,2-Tetrachloroethane	2.7	U
2-Butanone (MEK)	2.7	U	Bromobenzene	2.7	U
cis-1,2-Dichloroethene	2.7	U	1,2,3-Trichloropropane	2.7	U
2,2-Dichloropropane	2.7	U	n-Propylbenzene	2.7	U
Chloroform	2.7	U	2-Chlorotoluene	2.7	U
1,1,1-Trichloroethane	2.7	U	1,3,5-Trimethylbenzene	2.7	U
1,1-Dichloropropene	2.7	U	4-Chlorotoluene	2.7	U
Carbon tetrachloride	2.7	U	tert-Butylbenzene	2.7	U
Benzene	2.7	U	1,2,4-Trimethylbenzene	2.7	U
1,2-Dichloroethane	2.7	U	sec-Butylbenzene	2.7	U
Trichloroethene	2.7	U	1,3-Dichlorobenzene	2.7	U
1,2-Dichloropropane	2.7	U	p-Isopropyltoluene	2.7	U
Dibromomethane	2.7	U	1,4-Dichlorobenzene	2.7	U
Bromodichloromethane	2.7	U	n-Butylbenzene	2.7	U
2-Chloroethylvinyl ether	2.7	U	1,2-Dichlorobenzene	2.7	U
Methyl isobutyl ketone (MIBK)	2.7	U	1,2-Dibromo-3-chloropropane	2.7	U
cis-1,3-Dichloropropene	2.7	U	1,2,4-Trichlorobenzene	2.7	U
Toluene	2.7	U	Hexachlorobutadiene	2.7	U
trans-1,3-Dichloropropene	2.7	U	Naphthalene	**2.3**	J
1,1,2-Trichloroethane	2.7	U	1,2,3-Trichlorobenzene	2.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	78-118
Toluene-d8	101	87-113
4-Bromofluorobenzene	97	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145542**
Lab ID: **B2030802**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/08/01	100	5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**2.3**	J	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	2.0	U
Methylene chloride	**4.0**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	101	78-118
Toluene-d8	101	87-113
4-Bromofluorobenzene	98	76-120

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145542**
Lab ID: **See Below**
Associated Blank: **B2030802**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	AL

Lab ID:	B2030802		Q2030801		Q2030802				
Parameter	**Method Blank Conc.**		**Blank Spike Conc.**	**% Recovery**	**Blank Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
1,1-Dichloroethene	2.0	U	20	102	21	103	1	30	60-142
Benzene	2.0	U	20	101	20	101	1	30	56-143
Trichloroethene	2.0	U	20	101	21	103	2	26	76-127
Toluene	2.0	U	20	99	20	101	2	27	52-147
Chlorobenzene	2.0	U	19	97	20	100	3	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	100	100	78-118
Toluene-d8	100	101	87-113
4-Bromofluorobenzene	100	101	76-120

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Polychlorinated Biphenyls by GC/ECD

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 CP**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145542**
Lab ID: **45542-01**
Associated Blank: **PS0309B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/08/01	03/08/01	03/09/01	03/09/01	87.1	20.55	10	1	DMB

Parameter	Result
Aroclor 1016	28 U
Aroclor 1221	28 U
Aroclor 1232	28 U
Aroclor 1242	28 U
Aroclor 1248	28 U
Aroclor 1254	28 U
Aroclor 1260	28 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	75	30-150
Tetrachloro-meta-xylene	94	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145542**
Lab ID: **PS0309B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/09/01	03/09/01	100	20	10	1	DMB

Parameter	Result
Aroclor 1016	25 U
Aroclor 1221	25 U
Aroclor 1232	25 U
Aroclor 1242	25 U
Aroclor 1248	25 U
Aroclor 1254	25 U
Aroclor 1260	25 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	87	30-150
Tetrachloro-meta-xylene	75	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145542**
Lab ID: **PS0309L1**
Associated Blank: **PS0309B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/09/01	100	DMB

Parameter	Conc.	% Recovery	% Recovery Limits
Aroclor 1016	390	79	30-150
Aroclor 1260	420	83	30-150

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	88	30-150
Tetrachloro-meta-xylene	64	30-150

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 CP**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145542**
Lab ID: **45542-01**
Associated Blank: **SS0309B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/08/01	03/08/01	03/09/01	03/12/01	87.1	20.41	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	280	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	280	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	280	U
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	280	U
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	280	U
2-Chloronaphthalene	280	U
2-Nitroaniline	280	U
Acenaphthylene	280	U
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	280	U

Parameter	Result	
3-Nitroaniline	280	U
2,4-Dinitrophenol	560	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	280	U
Fluorene	280	U
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	280	U
4,6-Dinitro-2-methylphenol	280	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	280	U
Phenanthrene	280	U
Anthracene	280	U
Di-n-butylphthalate	280	U
Fluoranthene	280	U
Pyrene	280	U
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	280	U
Benz[a]anthracene	280	U
Chrysene	280	U
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	280	U
Benzo[k]fluoranthene	280	U
Benzo[a]pyrene	280	U
Indeno[1,2,3-cd]pyrene	280	U
Dibenz[a,h]anthracene	280	U
Benzo[g,h,i]perylene	280	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	38	25-121
Phenol-d5	67	24-113
Nitrobenzene-d5	68	23-120
2-Fluorobiphenyl	70	30-115
2,4,6-Tribromophenol	46	19-122
Terphenyl-d14	73	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145542**
Lab ID: **SS0309B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/09/01	03/11/01	100	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
Benzyl alcohol	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
Benzoic acid	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	250	U
2-Chloronaphthalene	250	U
2-Nitroaniline	250	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U

Parameter	Result	
3-Nitroaniline	250	U
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	250	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	250	U
4,6-Dinitro-2-methylphenol	250	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	250	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	76	25-121
Phenol-d5	77	24-113
Nitrobenzene-d5	78	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	61	19-122
Terphenyl-d14	77	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Solid**

Lab Code: **M-MA030**
ETR: **00145542**
Lab ID: **SS0309L1**
Associated Blank: **SS0309B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/09/01	100	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	7600	76	26-90
2-Chlorophenol	8100	81	25-102
1,4-Dichlorobenzene	3300	66	28-104
N-Nitroso-di-n-propylamine	3700	74	41-126
1,2,4-Trichlorobenzene	3700	74	38-107
4-Chloro-3-methylphenol	8500	85	26-103
Acenaphthene	3700	75	31-137
2,4-Dinitrotoluene	4100	82	28-89
4-Nitrophenol	8500	85	11-114
Pentachlorophenol	6600	66	17-109
Pyrene	3900	77	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	78	25-121
Phenol-d5	77	24-113
Nitrobenzene-d5	75	23-120
2-Fluorobiphenyl	76	30-115
2,4,6-Tribromophenol	82	19-122
Terphenyl-d14	78	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Woods Hole Group

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767

INFORMATIONAL BULLETIN #1

Analytical Method Revisions to the Massachusetts Contingency Plan (MCP)

In the coming months there will be many significant changes in the requirements for the analysis of environmental samples in support of MCP actions. From time to time, Woods Hole Group, Inc. will be developing a series of "Informational Notes" which will be forwarded to our clients in an effort to keep them on the cusp of new analytical developments.

The Massachusetts Department of Environmental Protection (MADEP) is assisting the environmental professional community in their evaluation of information for decision making at MCP sites. The DEP has formed a work group, known as the "Data Summit", which Woods Hole Group is an active voice. The groups' goal is to standardize the information reported to data users from various laboratories, for a parallel comparison in determining appropriate actions of MCP sites. The summit is utilizing EPA SW-846 methodologies as the guideline to define the minimal standards of performance in laboratory data quality. The Data Summit is comprised of the DEP, the Licensed Site Professional Association (LSPA), the Independent Testing Laboratory Association (ITLA), and various independent data validators.

The first methods being standardized are 8260B for volatile organic compounds and 6010B for inorganic analysis. Minimum data quality objectives (DQO) are being identified throughout the analytical process. These DQOs must be maintained to produce data of acceptable quality for MCP use. Confirmation of the DQO obtained may be required by the DEP in any audit process. Woods Hole Group will be able to provide validatable data packages when the audits occur.

Some of the standards of performance that will be defined in the DQOs are as follows:

- Expanded analyte lists for both 8260B and 6010B
- Laboratory control spikes with all target analytes for each batch of samples
- Standardized instrument calibration criteria
- Reporting limits defined by the concentration of the low-level standard
- Tentatively identified compounds (TICs) on initial site investigations and when warranted by site specific conditions

The draft document containing these criteria is available on the DEP web-site, www.state.ma.us/dep/bwsc/. Click on "Policies-draft". The initial release is for public comment. Methods for the semi-volatile organic compounds and mercury are currently under review by the Data Summit group and are expected to follow soon.

In addition to the method specific sections, a separate general reporting section for the MCP is being drafted as well. This will clearly define the minimal data deliverables a laboratory must produce and what data must be available for validation during an audit. The general reporting area does stress the need for communication between data users and data producers before actual samples are taken in the field. Woods Hole Group supports this philosophy that will ensure MCP acceptable data for decision making.

Case narratives for each analytical report will also be required. The narrative must include comments on any anomalous conditions noted for any sample(s) received and analyzed by the laboratory. Any DQO defined in the MCP guidance document for a specific method that is not obtained must be documented in the narrative.

Some of these changes will be internal to the laboratory, and you, the data user will not be aware of them through the generation of a final laboratory report. Other changes will greatly effect the data that you receive and how you must respond to it. In many cases Woods Hole Group Inc. is already providing this information, and other changes will be implemented as they are released. This program is on a fast track and changes will come quickly, we are here to help you weather the changes and answer your questions. Please give us your feed back on these changes and stay tuned for future announcements.

(508) 822-9300 / (508) 822-3288 (fax) / whale@ultranet.com / www.whgrp.com

Appendix E-2

Waste Characterization Laboratory Analytical Results
Wooden Shed Debris (WS)/Stockpile (SP)/Potential Backfill (BF)

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	BLDG A-85
ETR:	00145640
Report Date:	04/04/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45640
Project: BLDG A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Polychlorinated Biphenyls by GC/ECD

1. The samples SBNL14-SP-7-A (45640-01) and SBNL14-SP-8-A (45640-02) were analyzed on 4/4/01. The opening continuing calibration (C2040401) was compliant. The ending continuing calibration (C2040402) had a high bias for the aroclors 1016, 1260 and a low bias for DCB. The samples were non-detect for all aroclors and the surrogate was within QC limits for all samples and associated QC.

Semi-Volatile Organics by GC/MS

1. The Laboratory Control Sample (SS0403L3) had high recoveries for the compounds Phenol, 2,4-Dintrotoluene and Pentachlorophenol. These compounds were not detected in the associated samples SBNL14-SP-7-A (45640-01) and SBNL14-SP-8-A (45640-02).

Metals

1. Sample SBNL14-SP-7-A (45640-01) was digested and analyzed in duplicate with a matrix spike. All QC measures were within acceptance criteria except for the following:

   Barium: The RPD between duplicates was 30% and exceeds the method acceptance criteria of 20%. This may be due to sample non-homogeneity.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerard R. Bickers Date: 4-6-01
Woods Hole Group Environmental Laboratories

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Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767

TEL: (508) 822-9300
FAX: (508) 822-3288

PAGE 1 OF 1

COMPANY INFORMATION

Name: Foster Wheeler
Address: 133 Federal St.
Boston, MA 02110

Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: Joe Leach / Kevin White

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: Bldg. A-85
Project Number: BOIM
P.O. # 032831
Sampler Name(s): K. White

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 4/2/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8 oz / GLASS / ICE	40 mL / VOA / NAHSO4	40 mL / VOA / MEOH				NUMBER OF CONTAINERS
45640-1	SBNL14-SP-7-A	4/2/01	0730	Composite	Soil	TPH(GC) VOC, SVOC, RCRA 8, Flashpoint, PCB Corrosivity (pH) Reactivity	1	2	1				
-2	SBNL14-SP-8-A	4/2/01	0735	Composite	Soil	↓ ↓	1	2	1				

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
[signature]	4/2/01	1000	Nancy A Rose.
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145640
Project: BLDG A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145640-01	SBNL14- SP-7-A	SOIL	04/02/2001 7:30:00 AM	04/02/2001 10:00:00 AM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Reactivity
Total Petroleum Hydrocarbons by GC/FID
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Corrosivity, pH
Digestion - 3050:2T
Ignitability
Lead - 6020
Mercury - 7471
Metals Analysis
Selenium - 6020
Silver - 6020

0145640-02	SBNL14- SP-8-A	SOIL	04/02/2001 7:35:00 AM	04/02/2001 10:00:00 AM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Reactivity
Total Petroleum Hydrocarbons by GC/FID
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Corrosivity, pH
Digestion - 3050:2T
Ignitability
Lead - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145640
Project: BLDG A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Mercury - 7471			
	Metals Analysis			
	Selenium - 6020			
	Silver - 6020			

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145640
Project: BLDG A-85

Sample ID: SBNL14- SP-7-A
Lab ID: 0145640-01

Matrix: SOIL
% SOLIDS: 86%

Date Collected: 04/02/2001
Date Received: 04/02/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	25		mg/kg dry	5	0.20	6020	04/02/2001	04/03/2001	BHH
Barium, Total	44		mg/kg dry	5	0.079	6020	04/02/2001	04/03/2001	BHH
Cadmium, Total	0.11		mg/kg dry	5	0.079	6020	04/02/2001	04/03/2001	BHH
Chromium, Total	12		mg/kg dry	5	0.20	6020	04/02/2001	04/03/2001	BHH
Lead, Total	15		mg/kg dry	5	0.40	6020	04/02/2001	04/03/2001	BHH
Mercury, Total	0.017		mg/kg dry	1	0.012	7471	04/02/2001	04/03/2001	DJL
Selenium, Total	0.20	U	mg/kg dry	5	0.20	6020	04/02/2001	04/03/2001	BHH
Silver, Total	0.033	U	mg/kg dry	5	0.033	6020	04/02/2001	04/02/2001	CLM

Sample ID: SBNL14- SP-8-A
Lab ID: 0145640-02

Matrix: SOIL
% SOLIDS: 85%

Date Collected: 04/02/2001
Date Received: 04/02/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	24		mg/kg dry	5	0.19	6020	04/02/2001	04/03/2001	BHH
Barium, Total	38		mg/kg dry	5	0.076	6020	04/02/2001	04/03/2001	BHH
Cadmium, Total	0.11		mg/kg dry	5	0.076	6020	04/02/2001	04/03/2001	BHH
Chromium, Total	13		mg/kg dry	5	0.19	6020	04/02/2001	04/03/2001	BHH
Lead, Total	11		mg/kg dry	5	0.38	6020	04/02/2001	04/03/2001	BHH
Mercury, Total	0.022		mg/kg dry	1	0.013	7471	04/02/2001	04/03/2001	DJL
Selenium, Total	0.29		mg/kg dry	5	0.19	6020	04/02/2001	04/03/2001	BHH
Silver, Total	0.046	U	mg/kg dry	5	0.046	6020	04/02/2001	04/02/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: Bldg A-85
ETR: 45640

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	Qualifier
Arsenic	45640-01	04/03/01	<2.5	25	0	274	89	52.4	110	
Barium	45640-01	04/03/01	<1.0	44	30	274	96	266	116	N
Cadmium	45640-01	04/03/01	<1.0	0.11	0	2.98	100	59.7	108	
Chromium	45640-01	04/03/01	<2.5	12	0	274	106	30.9	108	
Lead	45640-01	04/03/01	9.0	15	6	274	101	74.3	106	D
Mercury	45640-01	04/03/01	<0.2	0.017	6	0.26	78	3.94	107	
Selenium	45640-01	04/03/01	<2.5	<0.20	X	2.98	101	53.2	115	
Silver	45640-01	04/02/01	<0.5	<0.033	0	3.33	100	54.5	103	

Qualifiers & Notes:
B = Reported QC is for associated batch
LCS = laboratory control standard
RPD = relative percent difference
C= Not spiked >1/4 sample concentration
D = Prep blank is slightly above reporting limit but all samples are 10X higher.
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145640
Project: BLDG A-85

Sample ID: SBNL14- SP-7-A
Lab ID: 0145640-01

Matrix: SOIL
% SOLIDS: 86%

Date Collected: 04/02/2001
Date Received: 04/02/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Corrosivity, pH	7.4		pH units	1	N/A	1110	04/03/2001	MAK
Ignitibility	>210		F	1	N/A	1010	04/03/2001	MAK

Reactivity

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Reactive Cyanide	10	U	mg/kg wet	1	10	SW846 CH.7	04/02/2001	MAK
Reactive Sulfide	10	U	mg/kg wet	1	10	SW846 CH.7	04/02/2001	MAK

Sample ID: SBNL14- SP-8-A
Lab ID: 0145640-02

Matrix: SOIL
% SOLIDS: 85%

Date Collected: 04/02/2001
Date Received: 04/02/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Corrosivity, pH	5.7		pH units	1	N/A	1110	04/03/2001	MAK
Ignitibility	>210		F	1	N/A	1010	04/03/2001	MAK

Reactivity

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Reactive Cyanide	10	U	mg/kg wet	1	10	SW846 CH.7	04/02/2001	MAK
Reactive Sulfide	10	U	mg/kg wet	1	10	SW846 CH.7	04/02/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: Charles River Park
ETR #: 45640

Parameter	sample ID	analysis date	blank (mg/Kg)	sample result (mg/Kg)	RPD of duplicates	MS conc added (mg/Kg)	%recovery matrix spike	LCS conc added (mg/Kg)	% recovery LCS	qualifier
pH	45640-1	04/03/2001	6.8	7.4	0	N/A	N/A	8.6	99	
Ignitability	45640-1	04/03/2001	N/A	>210	0	N/A	N/A	81	100	
Reactive Cyanide	45622-2	04/02/2001	<10	<10	0	2.4	18	5.1	21	B
Reactive Sulfide	45622-2	04/02/2001	<10	<10	0	230	89	5	89	B

Qualifiers & Notes:
LCS = Laboratory control standard
RPD = Relative percent difference
B = Reported QC is for associated batch
N = See narrative
A = Recovery is for method standard in place of matrix spike.
R = RPD criteria not applicable to results <5X the detection limit.

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- SP-7-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **45640-01**
Associated Blank: **B2040302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/02/01	04/02/01	04/03/01	85.8	4.97	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**30**		1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.7	U
Methylene chloride	**2.0**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	2.3	U	Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	2.3	U
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	88	84-108
Toluene-d8	98	87-108
4-Bromofluorobenzene	92	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- SP-8-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **45640-02**
Associated Blank: **B2040302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/02/01	04/02/01	04/03/01	84.7	5.09	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.3	U	2-Hexanone	2.3	U
Chloromethane	2.3	U	Tetrachloroethene	2.3	U
Vinyl chloride	2.3	U	1,3-Dichloropropane	2.3	U
Bromomethane	2.3	U	Dibromochloromethane	2.3	U
Chloroethane	2.3	U	1,2-Dibromoethane	2.3	U
Trichlorofluoromethane	2.3	U	Chlorobenzene	2.3	U
Acetone	**70**		1,1,1,2-Tetrachloroethane	2.3	U
1,1-Dichloroethene	2.3	U	Ethylbenzene	2.3	U
Carbon disulfide	2.3	U	p/m-Xylene	4.6	U
Methylene chloride	**2.3**	JB	o-Xylene	2.3	U
Methyl tert-butyl ether (MTBE)	2.3	U	Styrene	2.3	U
trans-1,2-Dichloroethene	2.3	U	Bromoform	2.3	U
1,1-Dichloroethane	2.3	U	Isopropylbenzene	2.3	U
Vinyl acetate	2.3	U	1,1,2,2-Tetrachloroethane	2.3	U
2-Butanone (MEK)	**7.3**		Bromobenzene	2.3	U
cis-1,2-Dichloroethene	2.3	U	1,2,3-Trichloropropane	2.3	U
2,2-Dichloropropane	2.3	U	n-Propylbenzene	2.3	U
Chloroform	2.3	U	2-Chlorotoluene	2.3	U
1,1,1-Trichloroethane	2.3	U	1,3,5-Trimethylbenzene	2.3	U
1,1-Dichloropropene	2.3	U	4-Chlorotoluene	2.3	U
Carbon tetrachloride	2.3	U	tert-Butylbenzene	2.3	U
Benzene	2.3	U	1,2,4-Trimethylbenzene	2.3	U
1,2-Dichloroethane	2.3	U	sec-Butylbenzene	2.3	U
Trichloroethene	2.3	U	1,3-Dichlorobenzene	2.3	U
1,2-Dichloropropane	2.3	U	p-Isopropyltoluene	2.3	U
Dibromomethane	2.3	U	1,4-Dichlorobenzene	2.3	U
Bromodichloromethane	2.3	U	n-Butylbenzene	2.3	U
2-Chloroethylvinyl ether	2.3	U	1,2-Dichlorobenzene	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U	1,2-Dibromo-3-chloropropane	2.3	U
cis-1,3-Dichloropropene	2.3	U	1,2,4-Trichlorobenzene	2.3	U
Toluene	2.3	U	Hexachlorobutadiene	2.3	U
trans-1,3-Dichloropropene	2.3	U	Naphthalene	2.3	U
1,1,2-Trichloroethane	2.3	U	1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	89	84-108
Toluene-d8	100	87-108
4-Bromofluorobenzene	88	77-113

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **B2040302**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	04/03/01	100.0	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	5.0	U	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**2.2**	J	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	84-108
Toluene-d8	101	87-108
4-Bromofluorobenzene	102	77-113

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **See Below**
Associated Blank: **B2040302**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100.0	JAD

Lab ID: B2040302 Q2040301 Q2040302

Parameter	Method Blank Conc.		Blank Spike Conc.	Blank Spike % Recovery	Blank Spike Dup. Conc.	Blank Spike Dup. % Recovery	% RPD	RPD Limit	% Recovery Limits
1,1-Dichloroethene	2.0	U	20	97	19	94	3	30	69-148
Benzene	2.0	U	20	102	21	103	1	30	74-136
Trichloroethene	2.0	U	21	103	20	102	1	26	74-139
Toluene	2.0	U	21	105	21	104	1	27	66-139
Chlorobenzene	2.0	U	20	99	20	99	1	30	78-130

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	99	98	84-108
Toluene-d8	102	102	87-108
4-Bromofluorobenzene	106	103	77-113

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

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Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- SP-7-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **45640-01**
Associated Blank: **PS0403B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/02/01	04/02/01	04/03/01	04/04/01	85.8	20.3	10	1	DMB

Parameter	Result
Aroclor 1016	29 U
Aroclor 1221	29 U
Aroclor 1232	29 U
Aroclor 1242	29 U
Aroclor 1248	29 U
Aroclor 1254	29 U
Aroclor 1260	29 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	57	30-150
Tetrachloro-meta-xylene	75	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Polychlorinated Biphenyls by GC/ECD

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- SP-8-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **45640-02**
Associated Blank: **PS0403B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/02/01	04/02/01	04/03/01	04/04/01	84.7	20.27	10	1	DMB

Parameter	Result
Aroclor 1016	29 U
Aroclor 1221	29 U
Aroclor 1232	29 U
Aroclor 1242	29 U
Aroclor 1248	29 U
Aroclor 1254	29 U
Aroclor 1260	29 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	57	30-150
Tetrachloro-meta-xylene	71	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **PS0403B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	04/03/01	04/04/01	100.0	20	10	1	DMB

Parameter	Result
Aroclor 1016	25 U
Aroclor 1221	25 U
Aroclor 1232	25 U
Aroclor 1242	25 U
Aroclor 1248	25 U
Aroclor 1254	25 U
Aroclor 1260	25 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	52	30-150
Tetrachloro-meta-xylene	67	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **PS0403L1**
Associated Blank: **PS0403B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	04/03/01	100.0	DMB

Parameter	Conc.	% Recovery	% Recovery Limits
Aroclor 1016	460	92	30-150
Aroclor 1260	400	79	30-150

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	55	30-150
Tetrachloro-meta-xylene	63	30-150

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- SP-7-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **45640-01**
Associated Blank: **SS0403B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/02/01	04/02/01	04/03/01	04/05/01	85.8	20.25	1	1	NLJr

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	**55**	J
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	290	U
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	580	U
2-Chloronaphthalene	290	U
2-Nitroaniline	580	U
Acenaphthylene	**270**	J
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	**170**	J
3-Nitroaniline	580	U

Parameter	Result	
2,4-Dinitrophenol	580	U
Dibenzofuran	**120**	J
2,4-Dinitrotoluene	290	U
4-Nitrophenol	580	U
Fluorene	**210**	J
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	580	U
4,6-Dinitro-2-methylphenol	580	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	580	U
Phenanthrene	**2700**	
Anthracene	**600**	
Di-n-butylphthalate	290	U
Fluoranthene	**5000**	
Pyrene	**4500**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	**280**	J
Benz[a]anthracene	**2100**	
Chrysene	**2300**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**2200**	
Benzo[k]fluoranthene	**940**	
Benzo[a]pyrene	**1800**	
Indeno[1,2,3-cd]pyrene	**910**	
Dibenz[a,h]anthracene	**220**	J
Benzo[g,h,i]perylene	**890**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	105	25-121
Phenol-d5	96	24-113
Nitrobenzene-d5	90	23-120
2-Fluorobiphenyl	90	30-115
2,4,6-Tribromophenol	109	19-122
Terphenyl-d14	98	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14- SP-8-A**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **45640-02**
Associated Blank: **SS0403B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
04/02/01	04/02/01	04/03/01	04/05/01	84.7	20.26	1	1	NLJr

Parameter	Result	
bis(2-Chloroethyl)ether	290	U
Phenol	290	U
2-Chlorophenol	290	U
1,3-Dichlorobenzene	290	U
1,4-Dichlorobenzene	290	U
1,2-Dichlorobenzene	290	U
bis(2-chloroisopropyl)ether	290	U
2-Methylphenol	290	U
Hexachloroethane	290	U
N-Nitroso-di-n-propylamine	290	U
4-Methylphenol	290	U
Nitrobenzene	290	U
Isophorone	290	U
2-Nitrophenol	290	U
2,4-Dimethylphenol	290	U
bis(2-Chloroethoxy)methane	290	U
2,4-Dichlorophenol	290	U
1,2,4-Trichlorobenzene	290	U
Naphthalene	290	U
4-Chloroaniline	290	U
Hexachlorobutadiene	290	U
4-Chloro-3-methylphenol	290	U
2-Methylnaphthalene	290	U
Hexachlorocyclopentadiene	290	U
2,4,6-Trichlorophenol	290	U
2,4,5-Trichlorophenol	580	U
2-Chloronaphthalene	290	U
2-Nitroaniline	580	U
Acenaphthylene	**84**	J
Dimethylphthalate	290	U
2,6-Dinitrotoluene	290	U
Acenaphthene	290	U
3-Nitroaniline	580	U

Parameter	Result	
2,4-Dinitrophenol	580	U
Dibenzofuran	290	U
2,4-Dinitrotoluene	290	U
4-Nitrophenol	580	U
Fluorene	290	U
4-Chlorophenyl-phenylether	290	U
Diethylphthalate	290	U
4-Nitroaniline	580	U
4,6-Dinitro-2-methylphenol	580	U
n-Nitrosodiphenylamine	290	U
4-Bromophenyl-phenylether	290	U
Hexachlorobenzene	290	U
Pentachlorophenol	580	U
Phenanthrene	**250**	J
Anthracene	**79**	J
Di-n-butylphthalate	290	U
Fluoranthene	**600**	
Pyrene	**700**	
Butylbenzylphthalate	290	U
3,3'-Dichlorobenzidine	290	U
Carbazole	290	U
Benz[a]anthracene	**360**	
Chrysene	**430**	
bis(2-Ethylhexyl)phthalate	290	U
Di-n-octylphthalate	290	U
Benzo[b]fluoranthene	**400**	
Benzo[k]fluoranthene	**210**	J
Benzo[a]pyrene	**340**	
Indeno[1,2,3-cd]pyrene	**150**	J
Dibenz[a,h]anthracene	290	U
Benzo[g,h,i]perylene	**150**	J

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	99	25-121
Phenol-d5	86	24-113
Nitrobenzene-d5	79	23-120
2-Fluorobiphenyl	78	30-115
2,4,6-Tribromophenol	103	19-122
Terphenyl-d14	94	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **SS0403B2**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	04/03/01	04/04/01	100.0	20	1	1	NLJr

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U
3-Nitroaniline	500	U

Parameter	Result	
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	103	25-121
Phenol-d5	90	24-113
Nitrobenzene-d5	84	23-120
2-Fluorobiphenyl	83	30-115
2,4,6-Tribromophenol	105	19-122
Terphenyl-d14	100	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145640**
Lab ID: **SS0403L3**
Associated Blank: **SS0403B2**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	04/03/01	100.0	NLJr

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	9100	91[a]	26-90
2-Chlorophenol	9400	94	25-102
1,4-Dichlorobenzene	4100	82	28-104
N-Nitroso-di-n-propylamine	3900	78	41-126
1,2,4-Trichlorobenzene	4300	87	38-107
4-Chloro-3-methylphenol	10000	101	26-103
Acenaphthene	4500	90	31-137
2,4-Dinitrotoluene	4500	90[a]	28-89
4-Nitrophenol	9400	94	11-114
Pentachlorophenol	12000	118[a]	17-109
Pyrene	5200	104	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	100	25-121
Phenol-d5	91	24-113
Nitrobenzene-d5	85	23-120
2-Fluorobiphenyl	86	30-115
2,4,6-Tribromophenol	113	19-122
Terphenyl-d14	108	18-137

[a] - Value outside of QC Limits.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the unrounded result.

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Woods Hole Group
Environmental Laboratories

375 Paramount Drive • Suite 2
Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental Corp.

ETR Number: 45640

Lab ID Number: 45640-01

Project: BLDG A-85

Sample ID: SBNL14-SP-7-A

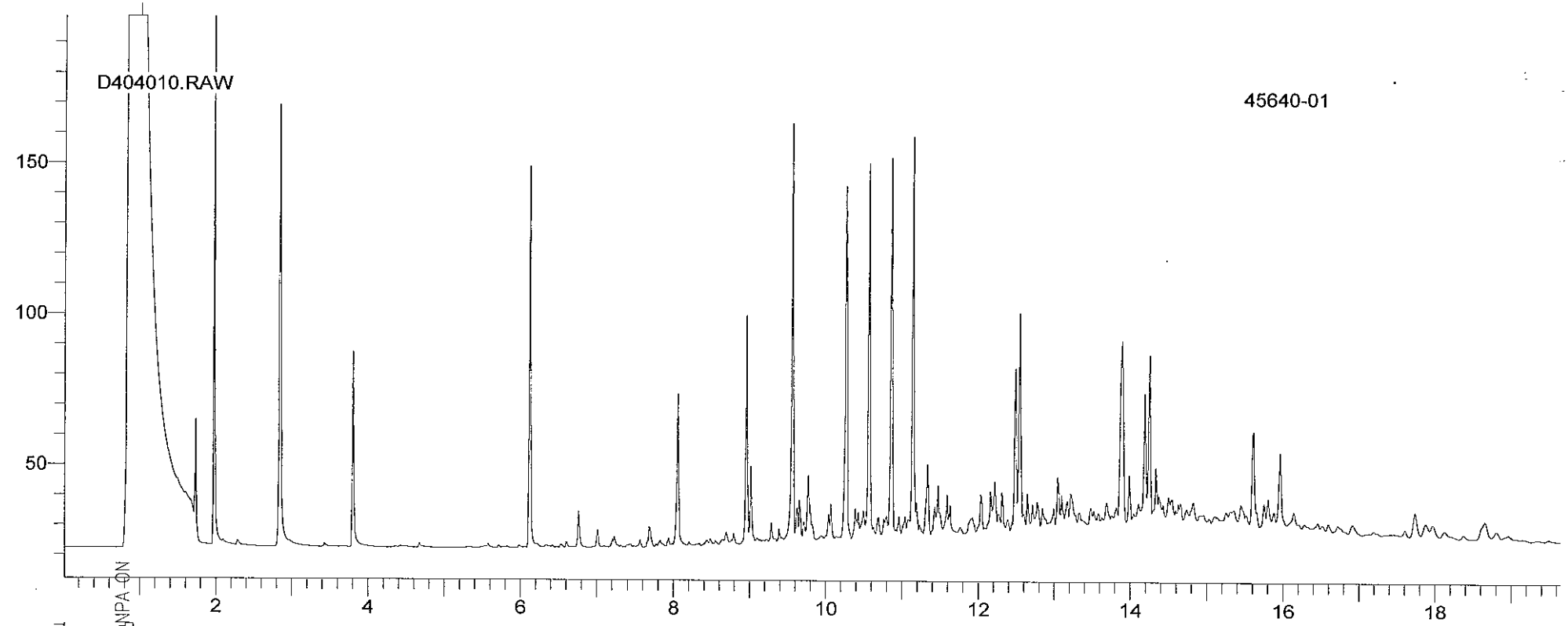
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
04/02/01	04/03/01	04/04/01	MLS	1	SOIL	SS0403B2	86%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	31
C19-C36 Hydrocarbons	110
Total Petroleum Hydrocarbons	140

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	87%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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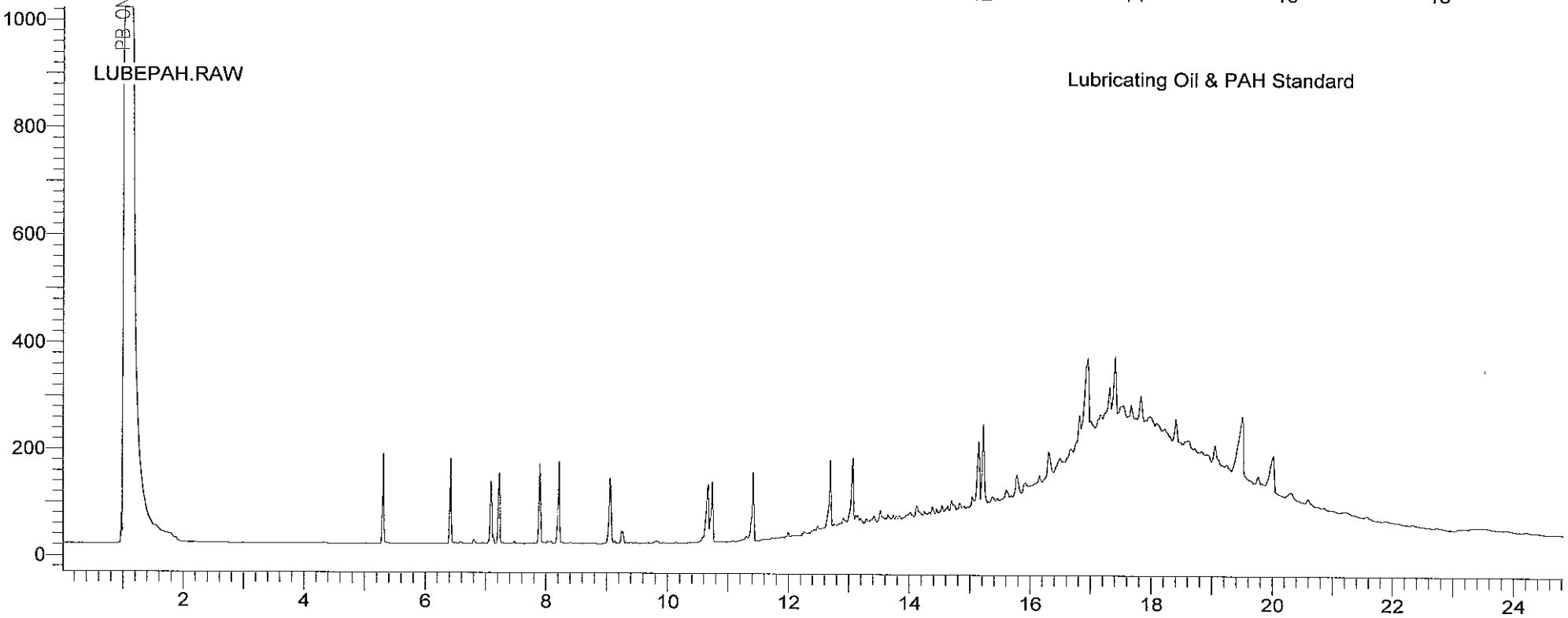
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LUBEPAH.RAW
Lubricating Oil & PAH Standard
1000
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200
0
2
4
6
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16
18
20
22
24

Woods Hole Group
Environmental Laboratories

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TOTAL PETROLEUM HYDROCARBONS by GC/FID

Foster Wheeler Environmental Corp. **ETR Number: 45640**

Lab ID Number: 45640-02

Project: **BLDG A-85**

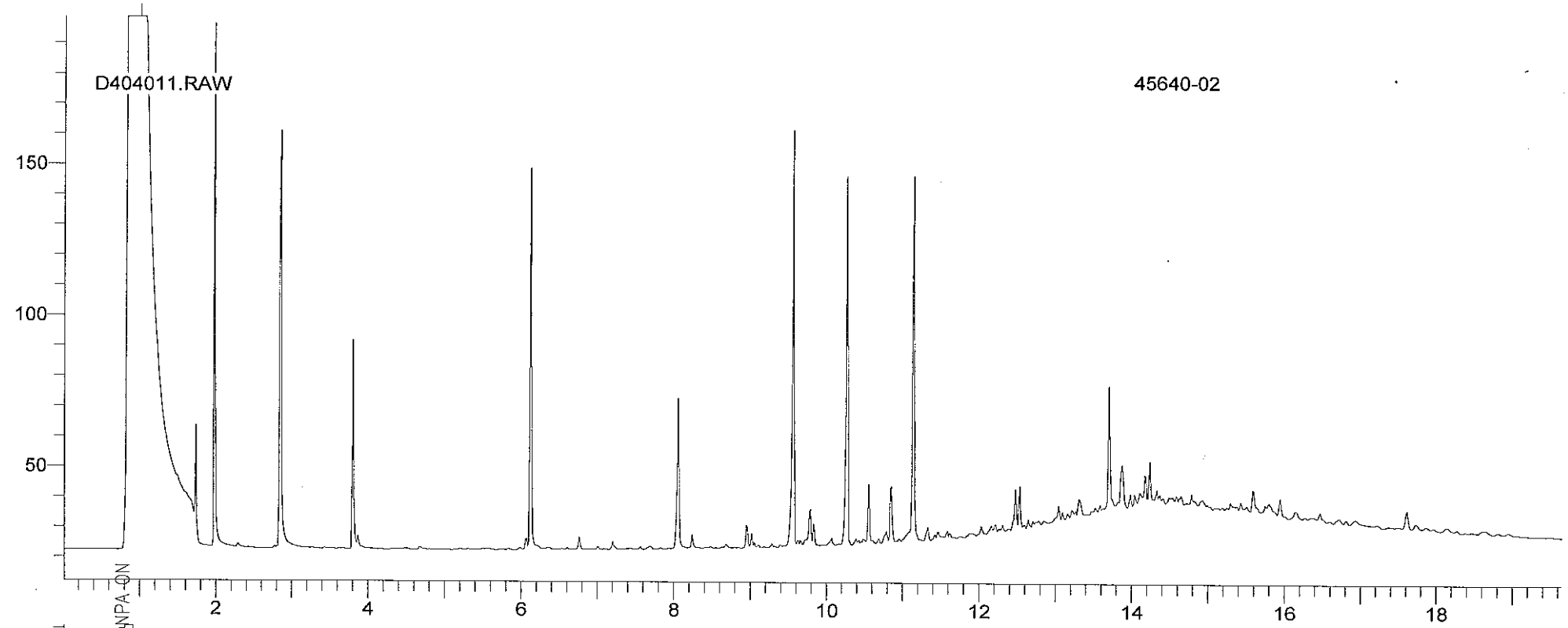
Sample ID:	SBNL14-SP-8-A						
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
04/02/01	04/03/01	04/04/01	MLS	1	SOIL	SS0403B2	85%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	23
C19-C36 Hydrocarbons	79
Total Petroleum Hydrocarbons	100

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	82%	25%-120%

Qualitative Identification Results:

This sample has GC/FID characteristics which are similar to a mixture of high molecular weight components in the lubricating oil range and polynuclear aromatic hydrocarbons.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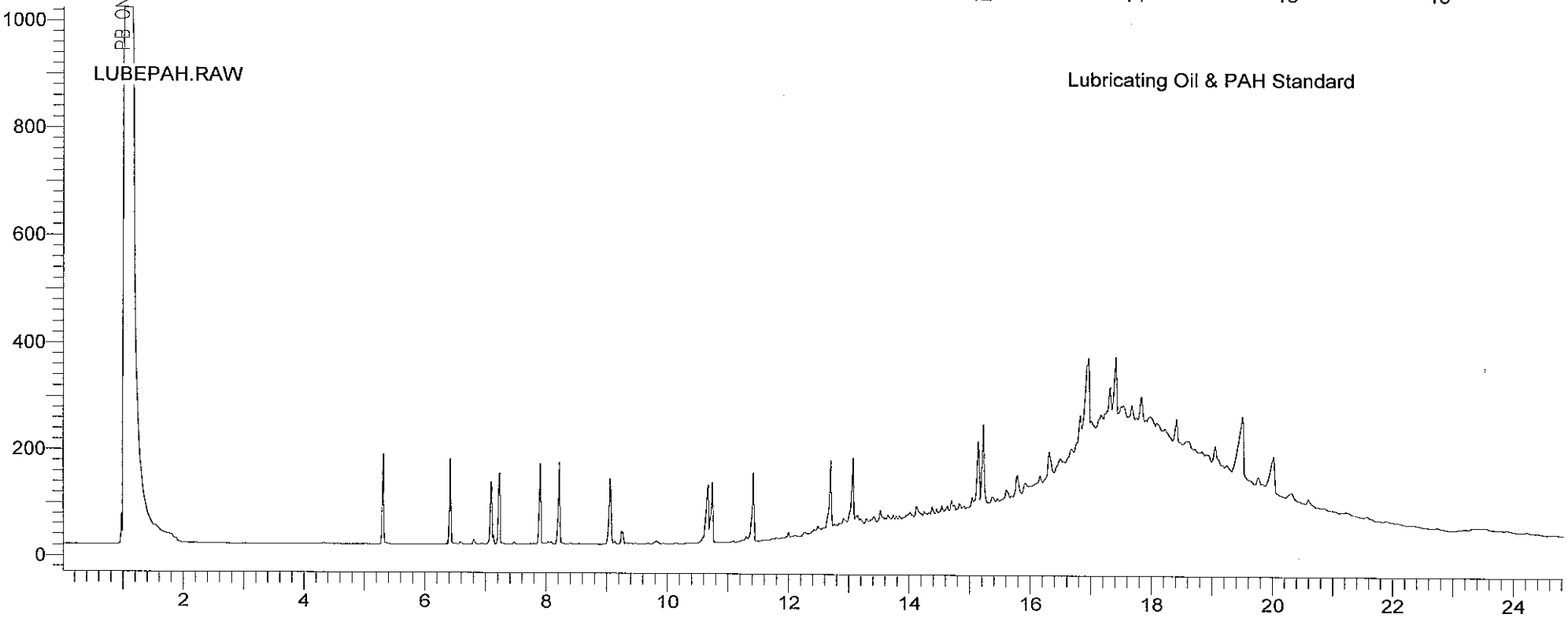
PB ONPA ON
LUBEPAH.RAW
Lubricating Oil & PAH Standard
1000
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600
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12
14
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24

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Raynham, MA 02767-5154 • USA
Phone: 508-822-9300
Fax: 508-822-3288

TOTAL PETROLEUM HYDROCARBONS by GC/FID

Quality Control Report

Lab ID Number: SS0403B2

Sample ID:	Method Blank						
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	4/3/01	4/4/01	MLS	1	SOIL	N/A	100%

Parameter	Results in mg/Kg
C9-C18 Hydrocarbons	< 5.0
C19-C36 Hydrocarbons	< 5.0
Total Petroleum Hydrocarbons	< 5.0

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	75%	25%-120%

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Total Petroleum Hydrocarbons by GC/FID

Sample ID:	TS0403L1 Laboratory Control Spike						
Date Received	Date Extracted	Date Analyzed	Analyzed by	Dilution Factor	Matrix	Associated Blank	% Solids
N/A	4/3/01	4/4/01	MLS	1	soil	TS0403B1	100%

Parameter	Results in mg/Kg	% Recovery
DIESEL FUEL	403	81%

Amount Spiked: 500 mg/Kg

Surrogate	Percent Recovery	QC Advisory Limits
5-alpha androstane	80%	25%-120%

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	BLDG A-85
ETR:	00145527
Report Date:	03/09/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45527
Project: BLDG A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Metals

Client sample ID SBNL14 SP1 (45527-02) was digested and analyzed in duplicate with a matrix spike, preparation blank and solid LCS. All QC measures were within method acceptance limits except the following:

Lead: The RPD between duplicates was 53% and exceeds the method criteria of 20%.

Semi-Volatile Organics by GC/MS

1. The following samples were diluted based on the thick nature of the extract and were reported with the associated elevated reporting limits. Sample SBNL14 SP1 (45527-02) was initially analyzed at a 1:2 dilution resulting in compounds exceeding the instrument calibration range and was re-analyzed at a 1:4 dilution. Both of these analyses were reported;

Sample ID	Lab Sample ID	Dilution
SBNL14 SP1	45527-02	1:2
SBNL14 SP1	45527-02E/02MS/02MSD	1:4
SBNL14 SP2	45527-03	1:2
SBNL14 SP3	45527-04	1:2

2. The matrix spike duplicate sample associated with sample SBNL14 SP1 (45527-02) had a high recovery for the compound Pyrene of 192% (limit 142%). The native sample and the matrix spike sample also had high concentrations of Pyrene present.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Gerard R. Graham Date: 3-9-01
Woods Hole Group Environmental Laboratories

F:\SHARED\NARRTEMP\FOSWHE\45527.dot

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767
TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA 02110
Telephone: (617) 457-8240
Facsimile: (617) 457-8499
Contact Name: SUE LEACH

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG A-85
Project Number: 1284 B014
P.O. # 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/1/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	8 oz / GLASS / ICE	40 mL / VOA / MEOH ICE	40 mL / VOA / NaHSO4 ICE	40 mL / VOA / HCL		
45527	SBNL14 WS ✓	3/1/01	1300	Comp.	SOLID	LEAD EPA METHOD 6020	1					
-2	SBNL14 SP1 ✓	3/1/01	1315	Comp.	SOIL	VOC EPA METHOD 8260B		2	1			
↓	SBNL14 SP1 ✓	3/1/01	1315	Comp	SOIL	PCB, SVOC, RCRA 8, FLASHPOINT, PH (CORROSIVITY) REACTIVITY	1					
-3	SBNL14 SP2 ✓	3/1/01	1330	Comp.	SOIL	VOC EPA METHOD 6020		2	1			
↓	SBNL14 SP2 ✓	3/1/01	1330	Comp.	SOIL	PCB, SVOC, RCRA 8, FLASHPOINT, CORROSIVITY (PH) REACTIVITY	1					
-4	SBNL14 SP3 ✓	3/1/01	1345	Comp.	SOIL	VOC EPA METHOD 6020		2	1			
↓	SBNL14 SP3 ✓	3/1/01	1345	Comp.	SOIL	PCB, SVOC, RCRA 8, FLASHPOINT, CORROSIVITY (PH) REACTIVITY	1					
-5	SBNL14 BF ✓	3/1/01	1415	Comp.	SOIL	VOC EPA METHOD 6020		2	1			
↓	SBNL14 BF ✓	3/1/01	1415	Comp.	SOIL	PCB, SVOC, TPH (IR)	1					
-6	SBNL14 TB ✓	3/1/01	1430	~~Comp~~	AQUEOUS	TRIP BLANK				2		

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
K. J. Whitten	3/1/01	1813	[illegible]
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.: 40ml/glass/H_2SO_4

Notes to Lab:

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145527
Project: BLDG A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145527-01	SBNL14 WS	SOLID	03/01/2001 1:00:00 PM	03/01/2001 6:30:00 PM

Lab Testing:

Digestion - 3050:2T
Lead - 6020
Lead, TCLP
TCLP Metals Extraction

0145527-02	SBNL14 SP1	SOIL	03/01/2001 1:15:00 PM	03/01/2001 6:30:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Reactivity
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Corrosivity, pH
Digestion - 3050:2T
Ignitability
Lead - 6020
Lead, TCLP
Mercury - 7471
Metals Analysis
Selenium - 6020
Silver - 6020
TCLP Metals Extraction

0145527-03	SBNL14 SP2	SOIL	03/01/2001 1:30:00 PM	03/01/2001 6:30:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Reactivity
Arsenic - 6020

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145527
Project: BLDG A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
	Barium - 6020 Cadmium - 6020 Chromium - 6020 Corrosivity, pH Digestion - 3050:2T Ignitability Lead - 6020 Lead, TCLP Mercury - 7471 Metals Analysis Selenium - 6020 Silver - 6020 TCLP Metals Extraction			
0145527-04	SBNL14 SP3	SOIL	03/01/2001 1:45:00 PM	03/01/2001 6:30:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
Reactivity
Arsenic - 6020
Barium - 6020
Cadmium - 6020
Chromium - 6020
Corrosivity, pH
Digestion - 3050:2T
Ignitability
Lead - 6020
Lead, TCLP
Mercury - 7471
Metals Analysis
Selenium - 6020
Silver - 6020
TCLP Metals Extraction

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145527
Project: BLDG A-85

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Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145527-05	SBNL14 BF	SOIL	03/01/2001 2:15:00 PM	03/01/2001 6:30:00 PM

Lab Testing:

8082 PCB as Aroclors
8260B Volatile Organics -- GC/MS
8270C Semivolatile Organics by GC/MS
TPH by IR

0145527-06	SBNL14 TB	SOIL	03/01/2001 2:30:00 PM	03/01/2001 6:30:00 PM

Lab Testing:

8260B Volatile Organics -- GC/MS

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145527
Project: BLDG A-85

Sample ID: SBNL14 WS
Lab ID: 0145527-01
Matrix: SOLID
% SOLIDS: 89%
Date Collected: 3/1/2001
Date Received: 3/1/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Lead, Extractable	730		µg/L	1	200	6010B	03/08/2001	3/9/2001	DJL
Lead, Total	520		mg/kg dry	5	0.84	6020	03/02/2001	3/2/2001	CLM

Sample ID: SBNL14 SP1
Lab ID: 0145527-02
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 3/1/2001
Date Received: 3/1/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	2.6		mg/kg dry	5	0.18	6020	03/02/2001	3/2/2001	CLM
Barium, Total	20		mg/kg dry	5	0.18	6020	03/02/2001	3/2/2001	CLM
Cadmium, Total	0.036	U	mg/kg dry	5	0.036	6020	03/02/2001	3/2/2001	CLM
Chromium, Total	10		mg/kg dry	5	0.18	6020	03/02/2001	3/2/2001	CLM
Lead, Extractable	200	U	µg/L	1	200	6010B	03/08/2001	3/9/2001	DJL
Lead, Total	5.3		mg/kg dry	5	1.1	6020	03/02/2001	3/2/2001	CLM
Mercury, Total	0.012	U	mg/kg dry	1	0.012	7471	03/02/2001	3/5/2001	LMR
Selenium, Total	0.23		mg/kg dry	5	0.18	6020	03/02/2001	3/2/2001	CLM
Silver, Total	0.057		mg/kg dry	5	0.036	6020	03/02/2001	3/5/2001	LMR

Sample ID: SBNL14 SP2
Lab ID: 0145527-03
Matrix: SOIL
% SOLIDS: 91%
Date Collected: 3/1/2001
Date Received: 3/1/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	28		mg/kg dry	5	0.17	6020	03/02/2001	3/2/2001	CLM
Barium, Total	35		mg/kg dry	5	0.17	6020	03/02/2001	3/2/2001	CLM
Cadmium, Total	0.57		mg/kg dry	5	0.034	6020	03/02/2001	3/2/2001	CLM
Chromium, Total	11		mg/kg dry	5	0.17	6020	03/02/2001	3/2/2001	CLM
Lead, Extractable	2400		µg/L	1	200	6010B	03/08/2001	3/9/2001	DJL
Lead, Total	210		mg/kg dry	5	1.0	6020	03/02/2001	3/2/2001	CLM
Mercury, Total	0.98		mg/kg dry	2	0.022	7471	03/02/2001	3/5/2001	LMR
Selenium, Total	0.25		mg/kg dry	5	0.17	6020	03/02/2001	3/2/2001	CLM

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145527
Project: BLDG A-85

Sample ID: SBNL14 SP2
Lab ID: 0145527-03

Matrix: SOIL
% SOLIDS: 91%

Date Collected: 3/1/2001
Date Received: 3/1/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Silver, Total	0.082		mg/kg dry	5	0.034	6020	03/02/2001	3/5/2001	LMR

Sample ID: SBNL14 SP3
Lab ID: 0145527-04

Matrix: SOIL
% SOLIDS: 94%

Date Collected: 3/1/2001
Date Received: 3/1/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Prepared	Date Analyzed	Analyst
Arsenic, Total	20		mg/kg dry	5	0.17	6020	03/02/2001	3/2/2001	CLM
Barium, Total	32		mg/kg dry	5	0.17	6020	03/02/2001	3/2/2001	CLM
Cadmium, Total	0.25		mg/kg dry	5	0.034	6020	03/02/2001	3/2/2001	CLM
Chromium, Total	10		mg/kg dry	5	0.17	6020	03/02/2001	3/2/2001	CLM
Lead, Extractable	4000		µg/L	10	2000	6010B	03/08/2001	3/9/2001	DJL
Lead, Total	580		mg/kg dry	5	1.0	6020	03/02/2001	3/2/2001	CLM
Mercury, Total	0.085		mg/kg dry	1	0.011	7471	03/02/2001	3/5/2001	LMR
Selenium, Total	0.17		mg/kg dry	5	0.17	6020	03/02/2001	3/2/2001	CLM
Silver, Total	0.11		mg/kg dry	5	0.034	6020	03/02/2001	3/5/2001	LMR

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: BLDG A-85
ETR: 45527

TCLP

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (µg/L)	RPD of duplicates	MS added (µg/L)	%recovery matrix spike	LCS conc. (µg/L)	% recovery LCS	Qualifier
Lead	45527-02	03/09/01	<200	<200	0	1000	92	1000	94	

Qualifiers & Notes:
B = Reported QC is for associated batch
RPD = relative percent difference
C= Not spiked >1/4 of sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

Inorganic Quality Control Summary

Client: Foster Wheeler Environmental
Project: BLDG A-85
ETR: 45527

Parameter	sample ID	analysis date	Blank (µg/L)	Sample Result (mg/kg)	RPD of duplicates	MS added (mg/kg)	%recovery matrix spike	LCS conc. (mg/kg)	% recovery LCS	quali -fier
Arsenic	45527-02	03/02/01	<2.5	2.6	0	3.03	97	136	102	
Barium	45527-02	03/02/01	<2.5	20	5	288	96	132	105	
Cadmium	45527-02	03/02/01	<0.5	<0.036	X	3.03	103	121	100	
Chromium	45527-02	03/02/01	<2.5	10	10	288	103	89.7	101	
Lead	45527-02	03/02/01	<15	5.3	53	3.03	115	144	94	N
Mercury	45527-02	03/05/01	<0.2	<0.012	X	0.29	100	2.48	110	
Selenium	45527-02	03/02/01	<2.5	0.23	4	3.03	100	95.0	103	
Silver	45527-02	03/05/01	<0.5	0.057	X	3.03	88	87.1	102	

Qualifiers & Notes:
B = Reported QC is for associated batch
LCS = laboratory control standard
RPD = relative percent difference
C= Not spiked >1/4 sample concentration
N = See narrative
P = Post digestion spike recovery
R = RPD criteria not applicable to results <5X the detection limit.
X = It is not possible to calculate % RPD, result is BDL, duplicate is just above detection.

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145527
Project: BLDG A-85

Sample ID: SBNL14 SP1
Lab ID: 0145527-02
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/01/2001
Date Received: 03/01/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Corrosivity, pH	6.4		pH units	1	N/A	1110	03/06/2001	MAK
Ignitibility	>210F		F	1	N/A	1010	03/03/2001	MAK

Reactivity

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Reactive Cyanide	10	U	mg/kg wet	1	10	SW846 CH.7	03/03/2001	MAK
Reactive Sulfide	10	U	mg/kg wet	1	10	SW846 CH.7	03/03/2001	MAK

Sample ID: SBNL14 SP2
Lab ID: 0145527-03
Matrix: SOIL
% SOLIDS: 91%
Date Collected: 03/01/2001
Date Received: 03/01/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Corrosivity, pH	6.5		pH units	1	N/A	1110	03/06/2001	MAK
Ignitibility	>210F		F	1	N/A	1010	03/03/2001	MAK

Reactivity

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Reactive Cyanide	11	U	mg/kg wet	1	11	SW846 CH.7	03/03/2001	MAK
Reactive Sulfide	10	U	mg/kg wet	1	10	SW846 CH.7	03/03/2001	MAK

Sample ID: SBNL14 SP3
Lab ID: 0145527-04
Matrix: SOIL
% SOLIDS: 94%
Date Collected: 03/01/2001
Date Received: 03/01/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Corrosivity, pH	6.7		pH units	1	N/A	1110	03/06/2001	MAK
Ignitibility	>210F		F	1	N/A	1010	03/03/2001	MAK

Reactivity

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Reactive Cyanide	10	U	mg/kg wet	1	10	SW846 CH.7	03/03/2001	MAK
Reactive Sulfide	10	U	mg/kg wet	1	10	SW846 CH.7	03/03/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

ANALYTICAL REPORT

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145527
Project: BLDG A-85

Sample ID: SBNL14 SP3
Lab ID: 0145527-04
Matrix: SOIL
% SOLIDS: 94%
Date Collected: 03/01/2001
Date Received: 03/01/2001

Sample ID: SBNL14 BF
Lab ID: 0145527-05
Matrix: SOIL
% SOLIDS: 87%
Date Collected: 03/01/2001
Date Received: 03/01/2001

Parameter	Result	Qualifier	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
TPH by IR	25		mg/kg dry	1	2.3	418.1	03/06/2001	MAK

U = The analyte was analyzed for but not detected at the sample specific level reported.

N/A = Not Applicable
RL = Reporting Limit

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP1**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-02**
Associated Blank: **B2030202**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/02/01	87.1	4.31	5	1	AL

Parameter	Result	
Dichlorodifluoromethane	2.7	U
Chloromethane	2.7	U
Vinyl chloride	2.7	U
Bromomethane	2.7	U
Chloroethane	2.7	U
Trichlorofluoromethane	2.7	U
Acetone	**32**	B
1,1-Dichloroethene	2.7	U
Carbon disulfide	2.7	U
Methylene chloride	**5.7**	JB
Methyl tert-butyl ether (MTBE)	2.7	U
trans-1,2-Dichloroethene	2.7	U
1,1-Dichloroethane	2.7	U
Vinyl acetate	2.7	U
2-Butanone (MEK)	2.7	U
cis-1,2-Dichloroethene	2.7	U
2,2-Dichloropropane	2.7	U
Chloroform	2.7	U
1,1,1-Trichloroethane	2.7	U
1,1-Dichloropropene	2.7	U
Carbon tetrachloride	2.7	U
Benzene	2.7	U
1,2-Dichloroethane	2.7	U
Trichloroethene	2.7	U
1,2-Dichloropropane	2.7	U
Dibromomethane	2.7	U
Bromodichloromethane	2.7	U
2-Chloroethylvinyl ether	2.7	U
Methyl isobutyl ketone (MIBK)	2.7	U
cis-1,3-Dichloropropene	2.7	U
Toluene	2.7	U
trans-1,3-Dichloropropene	2.7	U
1,1,2-Trichloroethane	2.7	U

Parameter	Result	
2-Hexanone	2.7	U
Tetrachloroethene	2.7	U
1,3-Dichloropropane	2.7	U
Dibromochloromethane	2.7	U
1,2-Dibromoethane	2.7	U
Chlorobenzene	2.7	U
1,1,1,2-Tetrachloroethane	2.7	U
Ethylbenzene	2.7	U
p/m-Xylene	5.3	U
o-Xylene	2.7	U
Styrene	2.7	U
Bromoform	2.7	U
Isopropylbenzene	2.7	U
1,1,2,2-Tetrachloroethane	2.7	U
Bromobenzene	2.7	U
1,2,3-Trichloropropane	2.7	U
n-Propylbenzene	2.7	U
2-Chlorotoluene	2.7	U
1,3,5-Trimethylbenzene	2.7	U
4-Chlorotoluene	2.7	U
tert-Butylbenzene	2.7	U
1,2,4-Trimethylbenzene	2.7	U
sec-Butylbenzene	2.7	U
1,3-Dichlorobenzene	2.7	U
p-Isopropyltoluene	2.7	U
1,4-Dichlorobenzene	2.7	U
n-Butylbenzene	2.7	U
1,2-Dichlorobenzene	2.7	U
1,2-Dibromo-3-chloropropane	2.7	U
1,2,4-Trichlorobenzene	2.7	U
Hexachlorobutadiene	2.7	U
Naphthalene	**18**	
1,2,3-Trichlorobenzene	2.7	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	104	78-118
Toluene-d8	98	87-113
4-Bromofluorobenzene	92	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP2**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-03**
Associated Blank: **B2030202**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/02/01	91.1	4.97	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.2	U	2-Hexanone	2.2	U
Chloromethane	2.2	U	Tetrachloroethene	2.2	U
Vinyl chloride	2.2	U	1,3-Dichloropropane	2.2	U
Bromomethane	2.2	U	Dibromochloromethane	2.2	U
Chloroethane	2.2	U	1,2-Dibromoethane	2.2	U
Trichlorofluoromethane	2.2	U	Chlorobenzene	2.2	U
Acetone	**35**	B	1,1,1,2-Tetrachloroethane	2.2	U
1,1-Dichloroethene	2.2	U	Ethylbenzene	2.2	U
Carbon disulfide	2.2	U	p/m-Xylene	4.4	U
Methylene chloride	**4.1**	JB	o-Xylene	2.2	U
Methyl tert-butyl ether (MTBE)	2.2	U	Styrene	2.2	U
trans-1,2-Dichloroethene	2.2	U	Bromoform	2.2	U
1,1-Dichloroethane	2.2	U	Isopropylbenzene	2.2	U
Vinyl acetate	2.2	U	1,1,2,2-Tetrachloroethane	2.2	U
2-Butanone (MEK)	2.2	U	Bromobenzene	2.2	U
cis-1,2-Dichloroethene	2.2	U	1,2,3-Trichloropropane	2.2	U
2,2-Dichloropropane	2.2	U	n-Propylbenzene	2.2	U
Chloroform	2.2	U	2-Chlorotoluene	2.2	U
1,1,1-Trichloroethane	2.2	U	1,3,5-Trimethylbenzene	2.2	U
1,1-Dichloropropene	2.2	U	4-Chlorotoluene	2.2	U
Carbon tetrachloride	2.2	U	tert-Butylbenzene	2.2	U
Benzene	2.2	U	1,2,4-Trimethylbenzene	2.2	U
1,2-Dichloroethane	2.2	U	sec-Butylbenzene	2.2	U
Trichloroethene	2.2	U	1,3-Dichlorobenzene	2.2	U
1,2-Dichloropropane	2.2	U	p-Isopropyltoluene	2.2	U
Dibromomethane	2.2	U	1,4-Dichlorobenzene	2.2	U
Bromodichloromethane	2.2	U	n-Butylbenzene	2.2	U
2-Chloroethylvinyl ether	2.2	U	1,2-Dichlorobenzene	2.2	U
Methyl isobutyl ketone (MIBK)	2.2	U	1,2-Dibromo-3-chloropropane	2.2	U
cis-1,3-Dichloropropene	2.2	U	1,2,4-Trichlorobenzene	2.2	U
Toluene	2.2	U	Hexachlorobutadiene	2.2	U
trans-1,3-Dichloropropene	2.2	U	Naphthalene	**8.1**	
1,1,2-Trichloroethane	2.2	U	1,2,3-Trichlorobenzene	2.2	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	102	78-118
Toluene-d8	97	87-113
4-Bromofluorobenzene	89	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP3**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-04**
Associated Blank: **B2030202**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/02/01	93.5	4.69	5	1	AL

Parameter	Result	
Dichlorodifluoromethane	2.3	U
Chloromethane	2.3	U
Vinyl chloride	2.3	U
Bromomethane	2.3	U
Chloroethane	2.3	U
Trichlorofluoromethane	2.3	U
Acetone	**41**	B
1,1-Dichloroethene	2.3	U
Carbon disulfide	2.3	U
Methylene chloride	**4.2**	JB
Methyl tert-butyl ether (MTBE)	2.3	U
trans-1,2-Dichloroethene	2.3	U
1,1-Dichloroethane	2.3	U
Vinyl acetate	2.3	U
2-Butanone (MEK)	2.3	U
cis-1,2-Dichloroethene	2.3	U
2,2-Dichloropropane	2.3	U
Chloroform	2.3	U
1,1,1-Trichloroethane	2.3	U
1,1-Dichloropropene	2.3	U
Carbon tetrachloride	2.3	U
Benzene	2.3	U
1,2-Dichloroethane	2.3	U
Trichloroethene	2.3	U
1,2-Dichloropropane	2.3	U
Dibromomethane	2.3	U
Bromodichloromethane	2.3	U
2-Chloroethylvinyl ether	2.3	U
Methyl isobutyl ketone (MIBK)	2.3	U
cis-1,3-Dichloropropene	2.3	U
Toluene	2.3	U
trans-1,3-Dichloropropene	2.3	U
1,1,2-Trichloroethane	2.3	U

Parameter	Result	
2-Hexanone	2.3	U
Tetrachloroethene	2.3	U
1,3-Dichloropropane	2.3	U
Dibromochloromethane	2.3	U
1,2-Dibromoethane	2.3	U
Chlorobenzene	2.3	U
1,1,1,2-Tetrachloroethane	2.3	U
Ethylbenzene	2.3	U
p/m-Xylene	4.6	U
o-Xylene	2.3	U
Styrene	2.3	U
Bromoform	2.3	U
Isopropylbenzene	2.3	U
1,1,2,2-Tetrachloroethane	2.3	U
Bromobenzene	2.3	U
1,2,3-Trichloropropane	2.3	U
n-Propylbenzene	2.3	U
2-Chlorotoluene	2.3	U
1,3,5-Trimethylbenzene	2.3	U
4-Chlorotoluene	2.3	U
tert-Butylbenzene	2.3	U
1,2,4-Trimethylbenzene	2.3	U
sec-Butylbenzene	2.3	U
1,3-Dichlorobenzene	2.3	U
p-Isopropyltoluene	2.3	U
1,4-Dichlorobenzene	2.3	U
n-Butylbenzene	2.3	U
1,2-Dichlorobenzene	2.3	U
1,2-Dibromo-3-chloropropane	2.3	U
1,2,4-Trichlorobenzene	2.3	U
Hexachlorobutadiene	2.3	U
Naphthalene	**12**	
1,2,3-Trichlorobenzene	2.3	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	100	78-118
Toluene-d8	97	87-113
4-Bromofluorobenzene	89	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 BF**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-05**
Associated Blank: **B2030202**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/02/01	86.9	5.88	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**26**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	3.9	U
Methylene chloride	**4.3**	JB	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	**96**	
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	78-118
Toluene-d8	99	87-113
4-Bromofluorobenzene	93	76-120

B - Found in associated blank as well as sample.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 TB**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-06**
Associated Blank: **B1030202**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/02/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**6.4**	B	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	5.0	U	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	98	78-118
Toluene-d8	101	87-113
4-Bromofluorobenzene	97	76-120

B - Found in associated blank as well as sample.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **B1030202**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/02/01	100	5	5	1	JAD

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**5.9**		1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	5.0	U	o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	5.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	97	78-118
Toluene-d8	101	87-113
4-Bromofluorobenzene	98	76-120

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **See Below**
Associated Blank: **B1030202**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	JAD

Lab ID:	B1030202		Q1030201		Q1030202				
Parameter	**Method Blank Conc.**		**Blank Spike Conc.**	**% Recovery**	**Blank Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
1,1-Dichloroethene	2.0	U	20	101	20	101	0	30	60-142
Benzene	2.0	U	20	100	20	99	1	30	56-143
Trichloroethene	2.0	U	21	103	20	99	4	30	76-127
Toluene	2.0	U	20	101	20	99	3	30	52-147
Chlorobenzene	2.0	U	21	103	20	100	3	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	96	99	78-118
Toluene-d8	100	101	87-113
4-Bromofluorobenzene	100	101	76-120

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **B2030202**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/02/01	100	5	5	1	AL

Parameter	Result		Parameter	Result	
Dichlorodifluoromethane	2.0	U	2-Hexanone	2.0	U
Chloromethane	2.0	U	Tetrachloroethene	2.0	U
Vinyl chloride	2.0	U	1,3-Dichloropropane	2.0	U
Bromomethane	2.0	U	Dibromochloromethane	2.0	U
Chloroethane	2.0	U	1,2-Dibromoethane	2.0	U
Trichlorofluoromethane	2.0	U	Chlorobenzene	2.0	U
Acetone	**2.7**	**J**	1,1,1,2-Tetrachloroethane	2.0	U
1,1-Dichloroethene	2.0	U	Ethylbenzene	2.0	U
Carbon disulfide	2.0	U	p/m-Xylene	4.0	U
Methylene chloride	**7.6**		o-Xylene	2.0	U
Methyl tert-butyl ether (MTBE)	2.0	U	Styrene	2.0	U
trans-1,2-Dichloroethene	2.0	U	Bromoform	2.0	U
1,1-Dichloroethane	2.0	U	Isopropylbenzene	2.0	U
Vinyl acetate	2.0	U	1,1,2,2-Tetrachloroethane	2.0	U
2-Butanone (MEK)	2.0	U	Bromobenzene	2.0	U
cis-1,2-Dichloroethene	2.0	U	1,2,3-Trichloropropane	2.0	U
2,2-Dichloropropane	2.0	U	n-Propylbenzene	2.0	U
Chloroform	2.0	U	2-Chlorotoluene	2.0	U
1,1,1-Trichloroethane	2.0	U	1,3,5-Trimethylbenzene	2.0	U
1,1-Dichloropropene	2.0	U	4-Chlorotoluene	2.0	U
Carbon tetrachloride	2.0	U	tert-Butylbenzene	2.0	U
Benzene	2.0	U	1,2,4-Trimethylbenzene	2.0	U
1,2-Dichloroethane	2.0	U	sec-Butylbenzene	2.0	U
Trichloroethene	2.0	U	1,3-Dichlorobenzene	2.0	U
1,2-Dichloropropane	2.0	U	p-Isopropyltoluene	2.0	U
Dibromomethane	2.0	U	1,4-Dichlorobenzene	2.0	U
Bromodichloromethane	2.0	U	n-Butylbenzene	2.0	U
2-Chloroethylvinyl ether	2.0	U	1,2-Dichlorobenzene	2.0	U
Methyl isobutyl ketone (MIBK)	2.0	U	1,2-Dibromo-3-chloropropane	2.0	U
cis-1,3-Dichloropropene	2.0	U	1,2,4-Trichlorobenzene	2.0	U
Toluene	2.0	U	Hexachlorobutadiene	2.0	U
trans-1,3-Dichloropropene	2.0	U	Naphthalene	2.0	U
1,1,2-Trichloroethane	2.0	U	1,2,3-Trichlorobenzene	2.0	U

Surrogate	% Recovery	Acceptance Range (%)
Dibromofluoromethane	103	78-118
Toluene-d8	98	87-113
4-Bromofluorobenzene	95	76-120

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank/Blank Spike**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **See Below**
Associated Blank: **B2030202**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Percent Solid	Analyst
N/A	N/A	100	AL

Lab ID:	B2030202		Q2030201		Q2030202				
Parameter	**Method Blank Conc.**		**Blank Spike Conc.**	**% Recovery**	**Blank Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
1,1-Dichloroethene	2.0	U	22	111	23	114	3	30	60-142
Benzene	2.0	U	21	103	21	103	0	30	56-143
Trichloroethene	2.0	U	21	103	21	105	2	30	76-127
Toluene	2.0	U	20	102	21	103	2	30	52-147
Chlorobenzene	2.0	U	21	105	21	107	2	30	62-132

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
Dibromofluoromethane	99	98	78-118
Toluene-d8	98	99	87-113
4-Bromofluorobenzene	98	99	76-120

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP1**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-02**
Associated Blank: **PS0302B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/02/01	03/07/01	87.1	20.21	10	1	NLJr

Parameter	Result
Aroclor 1016	28 U
Aroclor 1221	28 U
Aroclor 1232	28 U
Aroclor 1242	28 U
Aroclor 1248	28 U
Aroclor 1254	28 U
Aroclor 1260	28 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	76	30-150
Tetrachloro-meta-xylene	68	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Polychlorinated Biphenyls by GC/ECD

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP2**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-03**
Associated Blank: **PS0302B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/02/01	03/07/01	91.1	20.37	10	1	NLJr

Parameter	Result	
Aroclor 1016	27	U
Aroclor 1221	27	U
Aroclor 1232	27	U
Aroclor 1242	27	U
Aroclor 1248	27	U
Aroclor 1254	27	U
Aroclor 1260	**61**	P

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	86	30-150
Tetrachloro-meta-xylene	73	30-150

P - Greater than 40% RPD between the two columns, the higher value is reported according to the method.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP3**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-04**
Associated Blank: **PS0302B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/02/01	03/07/01	93.5	20.38	10	1	NLJr

Parameter	Result
Aroclor 1016	26 U
Aroclor 1221	26 U
Aroclor 1232	26 U
Aroclor 1242	26 U
Aroclor 1248	26 U
Aroclor 1254	26 U
Aroclor 1260	**100**

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	83	30-150
Tetrachloro-meta-xylene	72	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 BF**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-05**
Associated Blank: **PS0302B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/02/01	03/07/01	86.9	20.37	10	1	NLJr

Parameter	Result
Aroclor 1016	28 U
Aroclor 1221	28 U
Aroclor 1232	28 U
Aroclor 1242	28 U
Aroclor 1248	28 U
Aroclor 1254	28 U
Aroclor 1260	28 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	87	30-150
Tetrachloro-meta-xylene	68	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **PS0302B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/02/01	03/07/01	100	20	10	1	NLJr

Parameter	Result
Aroclor 1016	25 U
Aroclor 1221	25 U
Aroclor 1232	25 U
Aroclor 1242	25 U
Aroclor 1248	25 U
Aroclor 1254	25 U
Aroclor 1260	25 U

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	83	30-150
Tetrachloro-meta-xylene	71	30-150

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Polychlorinated Biphenyls by GC/ECD

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **PS0302L1**
Associated Blank: **PS0302B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/02/01	100	NLJr

Parameter	Conc.	% Recovery	% Recovery Limits
Aroclor 1016	300	61	30-150
Aroclor 1260	380	76	30-150

Surrogate	% Recovery	Acceptance Range (%)
Decachlorobiphenyl	81	30-150
Tetrachloro-meta-xylene	70	30-150

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP1**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-02**
Associated Blank: **SS0306B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/06/01	03/07/01	87.1	20.05	1	2	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	570	U
Phenol	570	U
2-Chlorophenol	570	U
1,3-Dichlorobenzene	570	U
1,4-Dichlorobenzene	570	U
1,2-Dichlorobenzene	570	U
Benzyl alcohol	570	U
bis(2-chloroisopropyl)ether	570	U
2-Methylphenol	570	U
Hexachloroethane	570	U
N-Nitroso-di-n-propylamine	570	U
4-Methylphenol	570	U
Nitrobenzene	570	U
Isophorone	570	U
2-Nitrophenol	570	U
2,4-Dimethylphenol	570	U
Benzoic acid	1100	U
bis(2-Chloroethoxy)methane	570	U
2,4-Dichlorophenol	570	U
1,2,4-Trichlorobenzene	570	U
Naphthalene	**880**	
4-Chloroaniline	570	U
Hexachlorobutadiene	570	U
4-Chloro-3-methylphenol	570	U
2-Methylnaphthalene	**270**	J
Hexachlorocyclopentadiene	570	U
2,4,6-Trichlorophenol	570	U
2,4,5-Trichlorophenol	1100	U
2-Chloronaphthalene	570	U
2-Nitroaniline	1100	U
Acenaphthylene	**2000**	
Dimethylphthalate	570	U
2,6-Dinitrotoluene	570	U
Acenaphthene	**660**	

Parameter	Result	
3-Nitroaniline	1100	U
2,4-Dinitrophenol	1100	U
Dibenzofuran	**450**	J
2,4-Dinitrotoluene	570	U
4-Nitrophenol	1100	U
Fluorene	**620**	
4-Chlorophenyl-phenylether	570	U
Diethylphthalate	570	U
4-Nitroaniline	1100	U
4,6-Dinitro-2-methylphenol	1100	U
n-Nitrosodiphenylamine	570	U
4-Bromophenyl-phenylether	570	U
Hexachlorobenzene	570	U
Pentachlorophenol	1100	U
Phenanthrene	**9900**	
Anthracene	**2500**	
Di-n-butylphthalate	570	U
Fluoranthene	**24000**	E
Pyrene	**22000**	E
Butylbenzylphthalate	570	U
3,3'-Dichlorobenzidine	570	U
Carbazole	**1900**	
Benz[a]anthracene	**11000**	
Chrysene	**13000**	
bis(2-Ethylhexyl)phthalate	570	U
Di-n-octylphthalate	570	U
Benzo[b]fluoranthene	**9300**	
Benzo[k]fluoranthene	**9700**	
Benzo[a]pyrene	**8900**	
Indeno[1,2,3-cd]pyrene	**2500**	
Dibenz[a,h]anthracene	**1200**	
Benzo[g,h,i]perylene	**2200**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	86	25-121
Phenol-d5	86	24-113
Nitrobenzene-d5	84	23-120
2-Fluorobiphenyl	87	30-115
2,4,6-Tribromophenol	93	19-122
Terphenyl-d14	93	18-137

E - Estimated value, above quantitation limit.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP1**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-02E**
Associated Blank: **SS0306B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/06/01	03/07/01	87.1	20.05	1	4	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	1100	U
Phenol	1100	U
2-Chlorophenol	1100	U
1,3-Dichlorobenzene	1100	U
1,4-Dichlorobenzene	1100	U
1,2-Dichlorobenzene	1100	U
Benzyl alcohol	1100	U
bis(2-chloroisopropyl)ether	1100	U
2-Methylphenol	1100	U
Hexachloroethane	1100	U
N-Nitroso-di-n-propylamine	1100	U
4-Methylphenol	1100	U
Nitrobenzene	1100	U
Isophorone	1100	U
2-Nitrophenol	1100	U
2,4-Dimethylphenol	1100	U
Benzoic acid	2300	U
bis(2-Chloroethoxy)methane	1100	U
2,4-Dichlorophenol	1100	U
1,2,4-Trichlorobenzene	1100	U
Naphthalene	**930**	J
4-Chloroaniline	1100	U
Hexachlorobutadiene	1100	U
4-Chloro-3-methylphenol	1100	U
2-Methylnaphthalene	**270**	J
Hexachlorocyclopentadiene	1100	U
2,4,6-Trichlorophenol	1100	U
2,4,5-Trichlorophenol	2300	U
2-Chloronaphthalene	1100	U
2-Nitroaniline	2300	U
Acenaphthylene	**2000**	
Dimethylphthalate	1100	U
2,6-Dinitrotoluene	1100	U
Acenaphthene	**660**	J

Parameter	Result	
3-Nitroaniline	2300	U
2,4-Dinitrophenol	2300	U
Dibenzofuran	**440**	J
2,4-Dinitrotoluene	1100	U
4-Nitrophenol	2300	U
Fluorene	**710**	J
4-Chlorophenyl-phenylether	1100	U
Diethylphthalate	1100	U
4-Nitroaniline	2300	U
4,6-Dinitro-2-methylphenol	2300	U
n-Nitrosodiphenylamine	1100	U
4-Bromophenyl-phenylether	1100	U
Hexachlorobenzene	1100	U
Pentachlorophenol	2300	U
Phenanthrene	**10000**	
Anthracene	**2600**	
Di-n-butylphthalate	1100	U
Fluoranthene	**25000**	
Pyrene	**22000**	
Butylbenzylphthalate	1100	U
3,3'-Dichlorobenzidine	1100	U
Carbazole	**1900**	
Benz[a]anthracene	**11000**	
Chrysene	**14000**	
bis(2-Ethylhexyl)phthalate	1100	U
Di-n-octylphthalate	1100	U
Benzo[b]fluoranthene	**10000**	
Benzo[k]fluoranthene	**10000**	
Benzo[a]pyrene	**8500**	
Indeno[1,2,3-cd]pyrene	**3600**	
Dibenz[a,h]anthracene	**1200**	
Benzo[g,h,i]perylene	**3200**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	85	25-121
Phenol-d5	89	24-113
Nitrobenzene-d5	87	23-120
2-Fluorobiphenyl	88	30-115
2,4,6-Tribromophenol	97	19-122
Terphenyl-d14	93	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP1**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **See Below**
Associated Blank: **SS0306B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
03/01/01	03/01/01	03/06/01	87.1	CLM

Lab ID:	45527-02E	45527-02		45527-02				
Parameter	**Sample Conc.**	**Matrix Spike Conc.**	**% Recovery**	**Matrix Spike Dup. Conc.**	**% Recovery**	**% RPD**	**RPD Limit**	**% Recovery Limits**
Phenol	1100 U	9600	84	9300	82	2	35	26-90
2-Chlorophenol	1100 U	10000	90	9800	87	4	50	25-102
1,4-Dichlorobenzene	1100 U	4300	75	4100	73	3	27	28-104
N-Nitroso-di-n-propylamine	1100 U	4800	85	4500	79	7	38	41-126
1,2,4-Trichlorobenzene	1100 U	5000	87	4700	84	4	23	38-107
4-Chloro-3-methylphenol	1100 U	12000	102	11000	99	3	33	26-103
Acenaphthene	660	6000	94	5700	89	5	19	31-137
2,4-Dinitrotoluene	1100 U	5100	89	4700	83	7	47	28-89
4-Nitrophenol	2300 U	9900	86	9500	84	3	50	11-114
Pentachlorophenol	2300 U	11000	93	11000	93	0	47	17-109
Pyrene	22000	26000	70	33000	192[a]	24	36	35-142

Surrogate	% Recovery Spike	% Recovery Spike Dup.	Acceptance Range (%)
2-Fluorophenol	84	86	25-121
Phenol-d5	87	91	24-113
Nitrobenzene-d5	86	86	23-120
2-Fluorobiphenyl	89	89	30-115
2,4,6-Tribromophenol	95	97	19-122
Terphenyl-d14	95	95	18-137

[a] - Value outside of QC Limits.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP2**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-03**
Associated Blank: **SS0306B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/06/01	03/07/01	91.1	20.36	1	2	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	540	U
Phenol	540	U
2-Chlorophenol	540	U
1,3-Dichlorobenzene	540	U
1,4-Dichlorobenzene	540	U
1,2-Dichlorobenzene	540	U
Benzyl alcohol	540	U
bis(2-chloroisopropyl)ether	540	U
2-Methylphenol	540	U
Hexachloroethane	540	U
N-Nitroso-di-n-propylamine	540	U
4-Methylphenol	540	U
Nitrobenzene	540	U
Isophorone	540	U
2-Nitrophenol	540	U
2,4-Dimethylphenol	540	U
Benzoic acid	1100	U
bis(2-Chloroethoxy)methane	540	U
2,4-Dichlorophenol	540	U
1,2,4-Trichlorobenzene	540	U
Naphthalene	**190**	J
4-Chloroaniline	540	U
Hexachlorobutadiene	540	U
4-Chloro-3-methylphenol	540	U
2-Methylnaphthalene	**120**	J
Hexachlorocyclopentadiene	540	U
2,4,6-Trichlorophenol	540	U
2,4,5-Trichlorophenol	1100	U
2-Chloronaphthalene	540	U
2-Nitroaniline	1100	U
Acenaphthylene	**2300**	
Dimethylphthalate	540	U
2,6-Dinitrotoluene	540	U
Acenaphthene	**130**	J

Parameter	Result	
3-Nitroaniline	1100	U
2,4-Dinitrophenol	1100	U
Dibenzofuran	540	U
2,4-Dinitrotoluene	540	U
4-Nitrophenol	1100	U
Fluorene	**170**	J
4-Chlorophenyl-phenylether	540	U
Diethylphthalate	540	U
4-Nitroaniline	1100	U
4,6-Dinitro-2-methylphenol	1100	U
n-Nitrosodiphenylamine	540	U
4-Bromophenyl-phenylether	540	U
Hexachlorobenzene	540	U
Pentachlorophenol	1100	U
Phenanthrene	**1900**	
Anthracene	**1200**	
Di-n-butylphthalate	540	U
Fluoranthene	**5700**	
Pyrene	**8600**	
Butylbenzylphthalate	540	U
3,3'-Dichlorobenzidine	540	U
Carbazole	**290**	J
Benz[a]anthracene	**4500**	
Chrysene	**5300**	
bis(2-Ethylhexyl)phthalate	540	U
Di-n-octylphthalate	540	U
Benzo[b]fluoranthene	**6300**	
Benzo[k]fluoranthene	**7000**	
Benzo[a]pyrene	**6500**	
Indeno[1,2,3-cd]pyrene	**1600**	
Dibenz[a,h]anthracene	**570**	
Benzo[g,h,i]perylene	**1400**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	98	25-121
Phenol-d5	100	24-113
Nitrobenzene-d5	93	23-120
2-Fluorobiphenyl	94	30-115
2,4,6-Tribromophenol	101	19-122
Terphenyl-d14	101	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 SP3**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-04**
Associated Blank: **SS0306B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/06/01	03/07/01	93.5	20.14	1	2	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	530	U
Phenol	530	U
2-Chlorophenol	530	U
1,3-Dichlorobenzene	530	U
1,4-Dichlorobenzene	530	U
1,2-Dichlorobenzene	530	U
Benzyl alcohol	530	U
bis(2-chloroisopropyl)ether	530	U
2-Methylphenol	530	U
Hexachloroethane	530	U
N-Nitroso-di-n-propylamine	530	U
4-Methylphenol	530	U
Nitrobenzene	530	U
Isophorone	530	U
2-Nitrophenol	530	U
2,4-Dimethylphenol	530	U
Benzoic acid	1100	U
bis(2-Chloroethoxy)methane	530	U
2,4-Dichlorophenol	530	U
1,2,4-Trichlorobenzene	530	U
Naphthalene	**300**	J
4-Chloroaniline	530	U
Hexachlorobutadiene	530	U
4-Chloro-3-methylphenol	530	U
2-Methylnaphthalene	**180**	J
Hexachlorocyclopentadiene	530	U
2,4,6-Trichlorophenol	530	U
2,4,5-Trichlorophenol	1100	U
2-Chloronaphthalene	530	U
2-Nitroaniline	1100	U
Acenaphthylene	**2600**	
Dimethylphthalate	530	U
2,6-Dinitrotoluene	530	U
Acenaphthene	**190**	J

Parameter	Result	
3-Nitroaniline	1100	U
2,4-Dinitrophenol	1100	U
Dibenzofuran	**140**	J
2,4-Dinitrotoluene	530	U
4-Nitrophenol	1100	U
Fluorene	**220**	J
4-Chlorophenyl-phenylether	530	U
Diethylphthalate	530	U
4-Nitroaniline	1100	U
4,6-Dinitro-2-methylphenol	1100	U
n-Nitrosodiphenylamine	530	U
4-Bromophenyl-phenylether	530	U
Hexachlorobenzene	530	U
Pentachlorophenol	1100	U
Phenanthrene	**3500**	
Anthracene	**1600**	
Di-n-butylphthalate	530	U
Fluoranthene	**9900**	
Pyrene	**13000**	
Butylbenzylphthalate	530	U
3,3'-Dichlorobenzidine	530	U
Carbazole	**530**	J
Benz[a]anthracene	**6400**	
Chrysene	**7600**	
bis(2-Ethylhexyl)phthalate	530	U
Di-n-octylphthalate	530	U
Benzo[b]fluoranthene	**9500**	
Benzo[k]fluoranthene	**9400**	
Benzo[a]pyrene	**8100**	
Indeno[1,2,3-cd]pyrene	**1800**	
Dibenz[a,h]anthracene	**680**	
Benzo[g,h,i]perylene	**1700**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	95	25-121
Phenol-d5	94	24-113
Nitrobenzene-d5	91	23-120
2-Fluorobiphenyl	91	30-115
2,4,6-Tribromophenol	95	19-122
Terphenyl-d14	100	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **SBNL14 BF**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **45527-05**
Associated Blank: **SS0306B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/01/01	03/01/01	03/06/01	03/07/01	86.9	20.81	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
Benzyl alcohol	280	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	280	U
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
Benzoic acid	550	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	**410**	
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	**120**	J
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	550	U
2-Chloronaphthalene	280	U
2-Nitroaniline	550	U
Acenaphthylene	**470**	
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	**360**	

Parameter	Result	
3-Nitroaniline	550	U
2,4-Dinitrophenol	550	U
Dibenzofuran	280	U
2,4-Dinitrotoluene	280	U
4-Nitrophenol	550	U
Fluorene	**350**	
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	550	U
4,6-Dinitro-2-methylphenol	550	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	550	U
Phenanthrene	**4000**	
Anthracene	**900**	
Di-n-butylphthalate	280	U
Fluoranthene	**6800**	
Pyrene	**5800**	
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	**660**	
Benz[a]anthracene	**3000**	
Chrysene	**3400**	
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**2400**	
Benzo[k]fluoranthene	**2500**	
Benzo[a]pyrene	**2300**	
Indeno[1,2,3-cd]pyrene	**1000**	
Dibenz[a,h]anthracene	**330**	
Benzo[g,h,i]perylene	**1000**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	90	25-121
Phenol-d5	90	24-113
Nitrobenzene-d5	88	23-120
2-Fluorobiphenyl	87	30-115
2,4,6-Tribromophenol	92	19-122
Terphenyl-d14	93	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **SS0306B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/06/01	03/07/01	100	20	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	250	U
Phenol	250	U
2-Chlorophenol	250	U
1,3-Dichlorobenzene	250	U
1,4-Dichlorobenzene	250	U
1,2-Dichlorobenzene	250	U
Benzyl alcohol	250	U
bis(2-chloroisopropyl)ether	250	U
2-Methylphenol	250	U
Hexachloroethane	250	U
N-Nitroso-di-n-propylamine	250	U
4-Methylphenol	250	U
Nitrobenzene	250	U
Isophorone	250	U
2-Nitrophenol	250	U
2,4-Dimethylphenol	250	U
Benzoic acid	500	U
bis(2-Chloroethoxy)methane	250	U
2,4-Dichlorophenol	250	U
1,2,4-Trichlorobenzene	250	U
Naphthalene	250	U
4-Chloroaniline	250	U
Hexachlorobutadiene	250	U
4-Chloro-3-methylphenol	250	U
2-Methylnaphthalene	250	U
Hexachlorocyclopentadiene	250	U
2,4,6-Trichlorophenol	250	U
2,4,5-Trichlorophenol	500	U
2-Chloronaphthalene	250	U
2-Nitroaniline	500	U
Acenaphthylene	250	U
Dimethylphthalate	250	U
2,6-Dinitrotoluene	250	U
Acenaphthene	250	U

Parameter	Result	
3-Nitroaniline	500	U
2,4-Dinitrophenol	500	U
Dibenzofuran	250	U
2,4-Dinitrotoluene	250	U
4-Nitrophenol	500	U
Fluorene	250	U
4-Chlorophenyl-phenylether	250	U
Diethylphthalate	250	U
4-Nitroaniline	500	U
4,6-Dinitro-2-methylphenol	500	U
n-Nitrosodiphenylamine	250	U
4-Bromophenyl-phenylether	250	U
Hexachlorobenzene	250	U
Pentachlorophenol	500	U
Phenanthrene	250	U
Anthracene	250	U
Di-n-butylphthalate	250	U
Fluoranthene	250	U
Pyrene	250	U
Butylbenzylphthalate	250	U
3,3'-Dichlorobenzidine	250	U
Carbazole	250	U
Benz[a]anthracene	250	U
Chrysene	250	U
bis(2-Ethylhexyl)phthalate	250	U
Di-n-octylphthalate	250	U
Benzo[b]fluoranthene	250	U
Benzo[k]fluoranthene	250	U
Benzo[a]pyrene	250	U
Indeno[1,2,3-cd]pyrene	250	U
Dibenz[a,h]anthracene	250	U
Benzo[g,h,i]perylene	250	U

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	92	25-121
Phenol-d5	94	24-113
Nitrobenzene-d5	86	23-120
2-Fluorobiphenyl	85	30-115
2,4,6-Tribromophenol	82	19-122
Terphenyl-d14	90	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **BLDG A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145527**
Lab ID: **SS0306L1**
Associated Blank: **SS0306B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/06/01	100	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	8900	89	26-90
2-Chlorophenol	9100	91	25-102
1,4-Dichlorobenzene	3900	77	28-104
N-Nitroso-di-n-propylamine	4400	88	41-126
1,2,4-Trichlorobenzene	4200	84	38-107
4-Chloro-3-methylphenol	10000	103	26-103
Acenaphthene	4500	90	31-137
2,4-Dinitrotoluene	4500	89	28-89
4-Nitrophenol	9300	93	11-114
Pentachlorophenol	8800	88	17-109
Pyrene	4700	93	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	93	25-121
Phenol-d5	92	24-113
Nitrobenzene-d5	86	23-120
2-Fluorobiphenyl	86	30-115
2,4,6-Tribromophenol	88	19-122
Terphenyl-d14	93	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

Woods Hole Group

Environmental Laboratories

ANALYTICAL REPORT

Prepared for:

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

Project:	Bldg A-85
ETR:	00145599
Report Date:	03/26/2001

Certificates

Massachusetts MA030
Connecticut PH-0141
New Hampshire 220699
Rhode Island 64
New Jersey 59015
Maine MA030

CASE NARRATIVE

Woods Hole Group Environmental Laboratories

ETR: 45599
Project: Bldg A-85

All analyses were performed according to Woods Hole Group's documented Standard Operating Procedures (SOPs), within holding time and with appropriate quality control measures except where noted. Blank correction of results is not performed in the laboratory for any parameter. Soil/sediment samples are reported on a dry weight basis unless otherwise noted.

Semi-Volatile Organics by GC/MS

1. Samples SBNL14-BF-2 (45599-02), SBNL14-BF-3 (45599-03) and SBNL14-BF-5 (45599-05) were originally analyzed with no dilution, however, some concentrations of target compounds exceeded the instrument calibration range. Samples SBNL14-BF-2 and SBNL14-BF-3 were reanalyzed at 1:10 dilutions (45599-02E and 45599-03E, respectively) and sample SBNL14-BF-5 was reanalyzed at a 1:4 dilution (45599-05E) and all concentrations were within instrument calibration range. Both analyses were reported to obtain the lowest reporting limit.

The enclosed results of analyses are representative of the samples as received by the laboratory. Woods Hole Group makes no representations or certifications as to the method of sample collection, sample identification, or transporting/handling procedures used prior to the receipt of samples by Woods Hole Group. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved by: Samuel R. Graham Date: 3-26-01
Woods Hole Group Environmental Laboratories

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Woods Hole Group Environmental Laboratories 375 Paramount Drive, Suite 2, Raynham, MA 02767-5150 Ph: 508-822-9300

Woods Hole Group
Environmental Laboratories

Chain-of-Custody Record

375 Paramount Drive
Raynham, MA 02767
TEL: (508) 822-9300
FAX: (508) 822-3288

COMPANY INFORMATION

Name: FOSTER WHEELER
Address: 133 FEDERAL ST.
BOSTON, MA 02110
Telephone: (617) 457-8240 (617) 306-2225
Facsimile: (617) 457-8499 (860) 448-7363
Contact Name: SUE LEACH/KEVIN WHITE

COMPANY'S PROJECT INFORMATION

Regulatory Protocol:
For the State of:
Project Name: BLDG. A-85
Project Number: B014
P.O. #: 032831
Sampler Name(s): K. WHITE

SHIPPING INFORMATION

Carrier:
Airbill Number:
Date Shipped: 3/22/01
Quote #:

TAT — 10 Day — 5 Day — 3 Day ✓ (48 Hr) — 24 Hr — Other

WHG LAB #	SAMPLE ID (NOTE 1)	COLLECTION DATE	COLLECTION TIME	COMPOSITE GRAB	MATRIX	ANALYSIS/REMARKS (NOTE 2, 3)	VOLUME/CONTAINER TYPE/PRESERVATIVE (NOTE 4): 8oz GLASS / ICE					
							NUMBER OF CONTAINERS					
	SBNL14-BF-1	3/22/01	1100	COMPOSITE	SOIL	SVOC 8270	1					
	BF-2		1105									
	BF-3		1110									
	BF-4		1115									
	BF-5		1120									

Relinquished by: (signature)	DATE	TIME	Received by: (signature)
[signature]	3/22/01	14:50	[signature] 3/22/01
Relinquished by: (signature)	DATE	TIME	Received by: (signature)
Relinquished by: (signature)	DATE	TIME	Received for Laboratory by: (signature)

NOTES TO SAMPLER (S): (1) Limit Sample Identification to 6 characters, if possible; (2) Indicate designated Lab Q.C. sample and type (e.g.; MS/MSD/REP) and provide sufficient sample; (3) Field duplicates are separate sample; (4) e.g.; 40ml/glass/H_2SO_4

Notes to Lab:

We cannot accept verbal changes - Please Fax written changes to (508) 822-3288

Sample Inventory

Woods Hole Group Environmental Laboratories

Foster Wheeler Environmental
133 Federal Street
Boston, MA 02110

ETR: 00145599
Project: Bldg A-85

The samples listed below were submitted to Woods Hole Group Environmental Laboratories, Inc. and were received under chain of custody. Woods Hole Group Environmental Laboratories (WHG) makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by WHG.

Lab ID:	Sample :	Sample Description:	Date / Time Collected	Date / Time Received
0145599-01	SBNL14-BF-1	SOIL	03/22/2001 11:00:00 AM	03/22/2001 2:50:00 PM
Lab Testing:				
8270C Semivolatile Organics by GC/MS				
0145599-02	SBNL14-BF-2	SOIL	03/22/2001 11:05:00 AM	03/22/2001 2:50:00 PM
Lab Testing:				
8270C Semivolatile Organics by GC/MS				
0145599-03	SBNL14-BF-3	SOIL	03/22/2001 11:10:00 AM	03/22/2001 2:50:00 PM
Lab Testing:				
8270C Semivolatile Organics by GC/MS				
0145599-04	SBNL14-BF-4	SOIL	03/22/2001 11:15:00 AM	03/22/2001 2:50:00 PM
Lab Testing:				
8270C Semivolatile Organics by GC/MS				
0145599-05	SBNL14-BF-5	SOIL	03/22/2001 11:20:00 AM	03/22/2001 2:50:00 PM
Lab Testing:				
8270C Semivolatile Organics by GC/MS				

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BF-1**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **45599-01**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/22/01	03/22/01	03/23/01	03/24/01	92.9	20.41	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	260	U
Phenol	260	U
2-Chlorophenol	260	U
1,3-Dichlorobenzene	260	U
1,4-Dichlorobenzene	260	U
1,2-Dichlorobenzene	260	U
bis(2-chloroisopropyl)ether	260	U
2-Methylphenol	260	U
Hexachloroethane	260	U
N-Nitroso-di-n-propylamine	260	U
4-Methylphenol	260	U
Nitrobenzene	260	U
Isophorone	260	U
2-Nitrophenol	260	U
2,4-Dimethylphenol	260	U
bis(2-Chloroethoxy)methane	260	U
2,4-Dichlorophenol	260	U
1,2,4-Trichlorobenzene	260	U
Naphthalene	**320**	
4-Chloroaniline	260	U
Hexachlorobutadiene	260	U
4-Chloro-3-methylphenol	260	U
2-Methylnaphthalene	**86**	J
Hexachlorocyclopentadiene	260	U
2,4,6-Trichlorophenol	260	U
2,4,5-Trichlorophenol	530	U
2-Chloronaphthalene	260	U
2-Nitroaniline	530	U
Acenaphthylene	**630**	
Dimethylphthalate	260	U
2,6-Dinitrotoluene	260	U
Acenaphthene	**260**	J
3-Nitroaniline	530	U

Parameter	Result	
2,4-Dinitrophenol	530	U
Dibenzofuran	**190**	J
2,4-Dinitrotoluene	260	U
4-Nitrophenol	530	U
Fluorene	**290**	
4-Chlorophenyl-phenylether	260	U
Diethylphthalate	260	U
4-Nitroaniline	530	U
4,6-Dinitro-2-methylphenol	530	U
n-Nitrosodiphenylamine	260	U
4-Bromophenyl-phenylether	260	U
Hexachlorobenzene	260	U
Pentachlorophenol	530	U
Phenanthrene	**3700**	
Anthracene	**920**	
Di-n-butylphthalate	260	U
Fluoranthene	**7500**	
Pyrene	**7300**	
Butylbenzylphthalate	260	U
3,3'-Dichlorobenzidine	260	U
Carbazole	**600**	
Benz[a]anthracene	**3300**	
Chrysene	**3900**	
bis(2-Ethylhexyl)phthalate	260	U
Di-n-octylphthalate	260	U
Benzo[b]fluoranthene	**3700**	
Benzo[k]fluoranthene	**2000**	
Benzo[a]pyrene	**2600**	
Indeno[1,2,3-cd]pyrene	**1300**	
Dibenz[a,h]anthracene	**360**	
Benzo[g,h,i]perylene	**1100**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	80	25-121
Phenol-d5	89	24-113
Nitrobenzene-d5	73	23-120
2-Fluorobiphenyl	78	30-115
2,4,6-Tribromophenol	93	19-122
Terphenyl-d14	85	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BF-2**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **45599-02**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/22/01	03/22/01	03/23/01	03/24/01	91.9	20.21	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	**54**	J
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	**3200**	
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	**820**	
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	540	U
2-Chloronaphthalene	270	U
2-Nitroaniline	540	U
Acenaphthylene	**540**	
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	**3400**	
3-Nitroaniline	540	U

Parameter	Result	
2,4-Dinitrophenol	540	U
Dibenzofuran	**2200**	
2,4-Dinitrotoluene	270	U
4-Nitrophenol	540	U
Fluorene	**3300**	
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	540	U
4,6-Dinitro-2-methylphenol	540	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	540	U
Phenanthrene	**23000**	E
Anthracene	**5700**	
Di-n-butylphthalate	270	U
Fluoranthene	**25000**	E
Pyrene	**21000**	E
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	**3700**	
Benz[a]anthracene	**11000**	E
Chrysene	**9000**	E
bis(2-Ethylhexyl)phthalate	270	U
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**9700**	E
Benzo[k]fluoranthene	**6400**	
Benzo[a]pyrene	**8100**	
Indeno[1,2,3-cd]pyrene	**2600**	
Dibenz[a,h]anthracene	**800**	
Benzo[g,h,i]perylene	**1900**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	66	25-121
Phenol-d5	75	24-113
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	65	30-115
2,4,6-Tribromophenol	91	19-122
Terphenyl-d14	80	18-137

E - Estimated value, above quantitation limit.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BF-2**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **45599-02E**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/22/01	03/22/01	03/23/01	03/25/01	91.9	20.21	1	10	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	2700	U
Phenol	2700	U
2-Chlorophenol	2700	U
1,3-Dichlorobenzene	2700	U
1,4-Dichlorobenzene	2700	U
1,2-Dichlorobenzene	2700	U
bis(2-chloroisopropyl)ether	2700	U
2-Methylphenol	2700	U
Hexachloroethane	2700	U
N-Nitroso-di-n-propylamine	2700	U
4-Methylphenol	2700	U
Nitrobenzene	2700	U
Isophorone	2700	U
2-Nitrophenol	2700	U
2,4-Dimethylphenol	2700	U
bis(2-Chloroethoxy)methane	2700	U
2,4-Dichlorophenol	2700	U
1,2,4-Trichlorobenzene	2700	U
Naphthalene	**3400**	
4-Chloroaniline	2700	U
Hexachlorobutadiene	2700	U
4-Chloro-3-methylphenol	2700	U
2-Methylnaphthalene	**840**	J
Hexachlorocyclopentadiene	2700	U
2,4,6-Trichlorophenol	2700	U
2,4,5-Trichlorophenol	5400	U
2-Chloronaphthalene	2700	U
2-Nitroaniline	5400	U
Acenaphthylene	2700	U
Dimethylphthalate	2700	U
2,6-Dinitrotoluene	2700	U
Acenaphthene	**3600**	
3-Nitroaniline	5400	U

Parameter	Result	
2,4-Dinitrophenol	5400	U
Dibenzofuran	**2400**	J
2,4-Dinitrotoluene	2700	U
4-Nitrophenol	5400	U
Fluorene	**3700**	
4-Chlorophenyl-phenylether	2700	U
Diethylphthalate	2700	U
4-Nitroaniline	5400	U
4,6-Dinitro-2-methylphenol	5400	U
n-Nitrosodiphenylamine	2700	U
4-Bromophenyl-phenylether	2700	U
Hexachlorobenzene	2700	U
Pentachlorophenol	5400	U
Phenanthrene	**24000**	
Anthracene	**6500**	
Di-n-butylphthalate	2700	U
Fluoranthene	**25000**	
Pyrene	**21000**	
Butylbenzylphthalate	2700	U
3,3'-Dichlorobenzidine	2700	U
Carbazole	**4000**	
Benz[a]anthracene	**9800**	
Chrysene	**9700**	
bis(2-Ethylhexyl)phthalate	2700	U
Di-n-octylphthalate	2700	U
Benzo[b]fluoranthene	**8300**	
Benzo[k]fluoranthene	**7100**	
Benzo[a]pyrene	**8500**	
Indeno[1,2,3-cd]pyrene	**4700**	
Dibenz[a,h]anthracene	**1200**	J
Benzo[g,h,i]perylene	**4600**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	69	25-121
Phenol-d5	79	24-113
Nitrobenzene-d5	63	23-120
2-Fluorobiphenyl	76	30-115
2,4,6-Tribromophenol	82	19-122
Terphenyl-d14	84	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BF-3**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **45599-03**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/22/01	03/22/01	03/23/01	03/24/01	89.9	20.21	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	280	U
Phenol	280	U
2-Chlorophenol	280	U
1,3-Dichlorobenzene	280	U
1,4-Dichlorobenzene	280	U
1,2-Dichlorobenzene	280	U
bis(2-chloroisopropyl)ether	280	U
2-Methylphenol	280	U
Hexachloroethane	280	U
N-Nitroso-di-n-propylamine	280	U
4-Methylphenol	**110**	J
Nitrobenzene	280	U
Isophorone	280	U
2-Nitrophenol	280	U
2,4-Dimethylphenol	280	U
bis(2-Chloroethoxy)methane	280	U
2,4-Dichlorophenol	280	U
1,2,4-Trichlorobenzene	280	U
Naphthalene	**5300**	
4-Chloroaniline	280	U
Hexachlorobutadiene	280	U
4-Chloro-3-methylphenol	280	U
2-Methylnaphthalene	**1500**	
Hexachlorocyclopentadiene	280	U
2,4,6-Trichlorophenol	280	U
2,4,5-Trichlorophenol	550	U
2-Chloronaphthalene	280	U
2-Nitroaniline	550	U
Acenaphthylene	**850**	
Dimethylphthalate	280	U
2,6-Dinitrotoluene	280	U
Acenaphthene	**6900**	
3-Nitroaniline	550	U

Parameter	Result	
2,4-Dinitrophenol	550	U
Dibenzofuran	**3400**	
2,4-Dinitrotoluene	280	U
4-Nitrophenol	550	U
Fluorene	**4900**	
4-Chlorophenyl-phenylether	280	U
Diethylphthalate	280	U
4-Nitroaniline	550	U
4,6-Dinitro-2-methylphenol	550	U
n-Nitrosodiphenylamine	280	U
4-Bromophenyl-phenylether	280	U
Hexachlorobenzene	280	U
Pentachlorophenol	550	U
Phenanthrene	**35000**	E
Anthracene	**9800**	E
Di-n-butylphthalate	280	U
Fluoranthene	**37000**	E
Pyrene	**31000**	E
Butylbenzylphthalate	280	U
3,3'-Dichlorobenzidine	280	U
Carbazole	**6000**	
Benz[a]anthracene	**22000**	E
Chrysene	**12000**	E
bis(2-Ethylhexyl)phthalate	280	U
Di-n-octylphthalate	280	U
Benzo[b]fluoranthene	**20000**	E
Benzo[k]fluoranthene	**13000**	E
Benzo[a]pyrene	**14000**	E
Indeno[1,2,3-cd]pyrene	**3200**	
Dibenz[a,h]anthracene	**1000**	
Benzo[g,h,i]perylene	**2400**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	74	25-121
Phenol-d5	87	24-113
Nitrobenzene-d5	73	23-120
2-Fluorobiphenyl	76	30-115
2,4,6-Tribromophenol	89	19-122
Terphenyl-d14	80	18-137

E - Estimated value, above quantitation limit.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BF-3**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **45599-03E**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/22/01	03/22/01	03/23/01	03/25/01	89.9	20.21	1	10	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	2800	U
Phenol	2800	U
2-Chlorophenol	2800	U
1,3-Dichlorobenzene	2800	U
1,4-Dichlorobenzene	2800	U
1,2-Dichlorobenzene	2800	U
bis(2-chloroisopropyl)ether	2800	U
2-Methylphenol	2800	U
Hexachloroethane	2800	U
N-Nitroso-di-n-propylamine	2800	U
4-Methylphenol	2800	U
Nitrobenzene	2800	U
Isophorone	2800	U
2-Nitrophenol	2800	U
2,4-Dimethylphenol	2800	U
bis(2-Chloroethoxy)methane	2800	U
2,4-Dichlorophenol	2800	U
1,2,4-Trichlorobenzene	2800	U
Naphthalene	**5500**	
4-Chloroaniline	2800	U
Hexachlorobutadiene	2800	U
4-Chloro-3-methylphenol	2800	U
2-Methylnaphthalene	**1400**	J
Hexachlorocyclopentadiene	2800	U
2,4,6-Trichlorophenol	2800	U
2,4,5-Trichlorophenol	5500	U
2-Chloronaphthalene	2800	U
2-Nitroaniline	5500	U
Acenaphthylene	**790**	J
Dimethylphthalate	2800	U
2,6-Dinitrotoluene	2800	U
Acenaphthene	**7400**	
3-Nitroaniline	5500	U

Parameter	Result	
2,4-Dinitrophenol	5500	U
Dibenzofuran	**3700**	
2,4-Dinitrotoluene	2800	U
4-Nitrophenol	5500	U
Fluorene	**5700**	
4-Chlorophenyl-phenylether	2800	U
Diethylphthalate	2800	U
4-Nitroaniline	5500	U
4,6-Dinitro-2-methylphenol	5500	U
n-Nitrosodiphenylamine	2800	U
4-Bromophenyl-phenylether	2800	U
Hexachlorobenzene	2800	U
Pentachlorophenol	5500	U
Phenanthrene	**36000**	
Anthracene	**11000**	
Di-n-butylphthalate	2800	U
Fluoranthene	**40000**	
Pyrene	**35000**	
Butylbenzylphthalate	2800	U
3,3'-Dichlorobenzidine	2800	U
Carbazole	**6500**	
Benz[a]anthracene	**17000**	
Chrysene	**17000**	
bis(2-Ethylhexyl)phthalate	2800	U
Di-n-octylphthalate	2800	U
Benzo[b]fluoranthene	**17000**	
Benzo[k]fluoranthene	**10000**	
Benzo[a]pyrene	**15000**	
Indeno[1,2,3-cd]pyrene	**8300**	
Dibenz[a,h]anthracene	**2200**	J
Benzo[g,h,i]perylene	**7600**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	75	25-121
Phenol-d5	87	24-113
Nitrobenzene-d5	76	23-120
2-Fluorobiphenyl	88	30-115
2,4,6-Tribromophenol	83	19-122
Terphenyl-d14	84	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Woods Hole Group

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BF-4**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **45599-04**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/22/01	03/22/01	03/23/01	03/24/01	90.3	20.33	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	**1400**	
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	**390**	
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	540	U
2-Chloronaphthalene	270	U
2-Nitroaniline	540	U
Acenaphthylene	**350**	
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	**980**	
3-Nitroaniline	540	U

Parameter	Result	
2,4-Dinitrophenol	540	U
Dibenzofuran	**660**	
2,4-Dinitrotoluene	270	U
4-Nitrophenol	540	U
Fluorene	**940**	
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	540	U
4,6-Dinitro-2-methylphenol	540	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	540	U
Phenanthrene	**6600**	
Anthracene	**1700**	
Di-n-butylphthalate	270	U
Fluoranthene	**7900**	
Pyrene	**7200**	
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	**1300**	
Benz[a]anthracene	**3600**	
Chrysene	**3600**	
bis(2-Ethylhexyl)phthalate	**110**	J
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**3600**	
Benzo[k]fluoranthene	**2400**	
Benzo[a]pyrene	**2900**	
Indeno[1,2,3-cd]pyrene	**990**	
Dibenz[a,h]anthracene	**280**	
Benzo[g,h,i]perylene	**770**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	78	25-121
Phenol-d5	87	24-113
Nitrobenzene-d5	73	23-120
2-Fluorobiphenyl	74	30-115
2,4,6-Tribromophenol	87	19-122
Terphenyl-d14	80	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

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Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BF-5**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **45599-05**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/22/01	03/22/01	03/23/01	03/24/01	89.3	20.41	1	1	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	270	U
Phenol	270	U
2-Chlorophenol	270	U
1,3-Dichlorobenzene	270	U
1,4-Dichlorobenzene	270	U
1,2-Dichlorobenzene	270	U
bis(2-chloroisopropyl)ether	270	U
2-Methylphenol	270	U
Hexachloroethane	270	U
N-Nitroso-di-n-propylamine	270	U
4-Methylphenol	270	U
Nitrobenzene	270	U
Isophorone	270	U
2-Nitrophenol	270	U
2,4-Dimethylphenol	270	U
bis(2-Chloroethoxy)methane	270	U
2,4-Dichlorophenol	270	U
1,2,4-Trichlorobenzene	270	U
Naphthalene	**1000**	
4-Chloroaniline	270	U
Hexachlorobutadiene	270	U
4-Chloro-3-methylphenol	270	U
2-Methylnaphthalene	**270**	J
Hexachlorocyclopentadiene	270	U
2,4,6-Trichlorophenol	270	U
2,4,5-Trichlorophenol	550	U
2-Chloronaphthalene	270	U
2-Nitroaniline	550	U
Acenaphthylene	**1200**	
Dimethylphthalate	270	U
2,6-Dinitrotoluene	270	U
Acenaphthene	**790**	
3-Nitroaniline	550	U

Parameter	Result	
2,4-Dinitrophenol	550	U
Dibenzofuran	**590**	
2,4-Dinitrotoluene	270	U
4-Nitrophenol	550	U
Fluorene	**840**	
4-Chlorophenyl-phenylether	270	U
Diethylphthalate	270	U
4-Nitroaniline	550	U
4,6-Dinitro-2-methylphenol	550	U
n-Nitrosodiphenylamine	270	U
4-Bromophenyl-phenylether	270	U
Hexachlorobenzene	270	U
Pentachlorophenol	550	U
Phenanthrene	**8200**	
Anthracene	**2200**	
Di-n-butylphthalate	270	U
Fluoranthene	**16000**	E
Pyrene	**15000**	E
Butylbenzylphthalate	270	U
3,3'-Dichlorobenzidine	270	U
Carbazole	**1400**	
Benz[a]anthracene	**7800**	
Chrysene	**7900**	
bis(2-Ethylhexyl)phthalate	**230**	J
Di-n-octylphthalate	270	U
Benzo[b]fluoranthene	**8800**	E
Benzo[k]fluoranthene	**5500**	
Benzo[a]pyrene	**5600**	
Indeno[1,2,3-cd]pyrene	**1700**	
Dibenz[a,h]anthracene	**520**	
Benzo[g,h,i]perylene	**1300**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	69	25-121
Phenol-d5	81	24-113
Nitrobenzene-d5	62	23-120
2-Fluorobiphenyl	69	30-115
2,4,6-Tribromophenol	88	19-122
Terphenyl-d14	82	18-137

E - Estimated value, above quantitation limit.
J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **SBNL14-BF-5**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **45599-05E**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
03/22/01	03/22/01	03/23/01	03/25/01	89.3	20.41	1	4	CLM

Parameter	Result	
bis(2-Chloroethyl)ether	1100	U
Phenol	1100	U
2-Chlorophenol	1100	U
1,3-Dichlorobenzene	1100	U
1,4-Dichlorobenzene	1100	U
1,2-Dichlorobenzene	1100	U
bis(2-chloroisopropyl)ether	1100	U
2-Methylphenol	1100	U
Hexachloroethane	1100	U
N-Nitroso-di-n-propylamine	1100	U
4-Methylphenol	1100	U
Nitrobenzene	1100	U
Isophorone	1100	U
2-Nitrophenol	1100	U
2,4-Dimethylphenol	1100	U
bis(2-Chloroethoxy)methane	1100	U
2,4-Dichlorophenol	1100	U
1,2,4-Trichlorobenzene	1100	U
Naphthalene	**1000**	J
4-Chloroaniline	1100	U
Hexachlorobutadiene	1100	U
4-Chloro-3-methylphenol	1100	U
2-Methylnaphthalene	**270**	J
Hexachlorocyclopentadiene	1100	U
2,4,6-Trichlorophenol	1100	U
2,4,5-Trichlorophenol	2200	U
2-Chloronaphthalene	1100	U
2-Nitroaniline	2200	U
Acenaphthylene	**1300**	
Dimethylphthalate	1100	U
2,6-Dinitrotoluene	1100	U
Acenaphthene	**850**	J
3-Nitroaniline	2200	U

Parameter	Result	
2,4-Dinitrophenol	2200	U
Dibenzofuran	**650**	J
2,4-Dinitrotoluene	1100	U
4-Nitrophenol	2200	U
Fluorene	**900**	J
4-Chlorophenyl-phenylether	1100	U
Diethylphthalate	1100	U
4-Nitroaniline	2200	U
4,6-Dinitro-2-methylphenol	2200	U
n-Nitrosodiphenylamine	1100	U
4-Bromophenyl-phenylether	1100	U
Hexachlorobenzene	1100	U
Pentachlorophenol	2200	U
Phenanthrene	**8900**	
Anthracene	**2200**	
Di-n-butylphthalate	1100	U
Fluoranthene	**16000**	
Pyrene	**16000**	
Butylbenzylphthalate	1100	U
3,3'-Dichlorobenzidine	1100	U
Carbazole	**1500**	
Benz[a]anthracene	**7400**	
Chrysene	**8900**	
bis(2-Ethylhexyl)phthalate	1100	U
Di-n-octylphthalate	1100	U
Benzo[b]fluoranthene	**7700**	
Benzo[k]fluoranthene	**5100**	
Benzo[a]pyrene	**5800**	
Indeno[1,2,3-cd]pyrene	**3400**	
Dibenz[a,h]anthracene	**920**	J
Benzo[g,h,i]perylene	**3300**	

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	73	25-121
Phenol-d5	84	24-113
Nitrobenzene-d5	71	23-120
2-Fluorobiphenyl	83	30-115
2,4,6-Tribromophenol	88	19-122
Terphenyl-d14	80	18-137

J - Estimated value, below quantitation limit.
U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Method Blank**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **SS0323B1**
Associated Blank: **N/A**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Date Analyzed	Percent Solid	Sample Amount (g)	Final Volume (ml)	Dilution Factor	Analyst
N/A	N/A	03/23/01	03/24/01	100.0	20	1	1	CLM

Parameter	Result		Parameter	Result	
bis(2-Chloroethyl)ether	250	U	2,4-Dinitrophenol	500	U
Phenol	250	U	Dibenzofuran	250	U
2-Chlorophenol	250	U	2,4-Dinitrotoluene	250	U
1,3-Dichlorobenzene	250	U	4-Nitrophenol	500	U
1,4-Dichlorobenzene	250	U	Fluorene	250	U
1,2-Dichlorobenzene	250	U	4-Chlorophenyl-phenylether	250	U
bis(2-chloroisopropyl)ether	250	U	Diethylphthalate	250	U
2-Methylphenol	250	U	4-Nitroaniline	500	U
Hexachloroethane	250	U	4,6-Dinitro-2-methylphenol	500	U
N-Nitroso-di-n-propylamine	250	U	n-Nitrosodiphenylamine	250	U
4-Methylphenol	250	U	4-Bromophenyl-phenylether	250	U
Nitrobenzene	250	U	Hexachlorobenzene	250	U
Isophorone	250	U	Pentachlorophenol	500	U
2-Nitrophenol	250	U	Phenanthrene	250	U
2,4-Dimethylphenol	250	U	Anthracene	250	U
bis(2-Chloroethoxy)methane	250	U	Di-n-butylphthalate	250	U
2,4-Dichlorophenol	250	U	Fluoranthene	250	U
1,2,4-Trichlorobenzene	250	U	Pyrene	250	U
Naphthalene	250	U	Butylbenzylphthalate	250	U
4-Chloroaniline	250	U	3,3'-Dichlorobenzidine	250	U
Hexachlorobutadiene	250	U	Carbazole	250	U
4-Chloro-3-methylphenol	250	U	Benz[a]anthracene	250	U
2-Methylnaphthalene	250	U	Chrysene	250	U
Hexachlorocyclopentadiene	250	U	bis(2-Ethylhexyl)phthalate	250	U
2,4,6-Trichlorophenol	250	U	Di-n-octylphthalate	250	U
2,4,5-Trichlorophenol	500	U	Benzo[b]fluoranthene	250	U
2-Chloronaphthalene	250	U	Benzo[k]fluoranthene	250	U
2-Nitroaniline	500	U	Benzo[a]pyrene	250	U
Acenaphthylene	250	U	Indeno[1,2,3-cd]pyrene	250	U
Dimethylphthalate	250	U	Dibenz[a,h]anthracene	250	U
2,6-Dinitrotoluene	250	U	Benzo[g,h,i]perylene	250	U
Acenaphthene	250	U			
3-Nitroaniline	500	U			

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	80	25-121
Phenol-d5	87	24-113
Nitrobenzene-d5	80	23-120
2-Fluorobiphenyl	73	30-115
2,4,6-Tribromophenol	77	19-122
Terphenyl-d14	78	18-137

U - The analyte was analyzed for but not detected at the sample specific level reported.
N/A - Not Applicable

Quality Control Results
Semi-Volatile Organics by GC/MS

Client: **Foster Wheeler Environmental**
Project: **Bldg A-85**
SDG: **N/A**
Client ID: **Laboratory Control Sample**
Matrix: **Soil**

Lab Code: **M-MA030**
ETR: **00145599**
Lab ID: **SS0323L1**
Associated Blank: **SS0323B1**
Concentration Units: **µg/Kg**

Date Collected	Date Received	Date Extracted	Percent Solid	Analyst
N/A	N/A	03/23/01	100.0	CLM

Parameter	Conc.	% Recovery	% Recovery Limits
Phenol	6600	66	26-90
2-Chlorophenol	6600	66	25-102
1,4-Dichlorobenzene	2800	55	28-104
N-Nitroso-di-n-propylamine	3200	63	41-126
1,2,4-Trichlorobenzene	3100	62	38-107
4-Chloro-3-methylphenol	8000	80	26-103
Acenaphthene	3100	62	31-137
2,4-Dinitrotoluene	3000	61	28-89
4-Nitrophenol	6900	69	11-114
Pentachlorophenol	5800	58	17-109
Pyrene	3200	63	35-142

Surrogate	% Recovery	Acceptance Range (%)
2-Fluorophenol	70	25-121
Phenol-d5	70	24-113
Nitrobenzene-d5	65	23-120
2-Fluorobiphenyl	61	30-115
2,4,6-Tribromophenol	70	19-122
Terphenyl-d14	63	18-137

N/A - Not Applicable

Concentrations reported as calculated values, which includes rounding for significant figures. Percent recoveries and RPD values are calculated from the raw data.

375 Paramount Drive, Suite 2, Raynham, Massachusetts 02767, (508) 822-9300, Fax (508) 822-3288, whale@ultranet.com

Appendix F

Backfill Certification Laboratory Analytical Results

Richmond Sand & Gravel, Inc.

401-539-7770
401-539-2761
FAX 401-539-2376

P.O. Box 389
Stilson Road
Wyoming, RI 02898

March 16, 2001

Foster Wheeler Environmental Corporation
One Oxford Valley Suite 200
Langhorne, PA 19047
Attention: Deb Sanders

RE: PO# 033201
JOB: US Naval Submarine Base- New London

Dear Deb,

To the best of our knowledge Select 3" Minus Certified Clean Backfill is free from all debris, to include any contaminants, and hazardous materials.

If you should have any questions or need additional information, pleases do not hesitate to call me directly at (410) 539-7770.

Sincerely,

Jeffrey Nero
President
Richmond Sand and Gravel

AN EQUAL OPPORTUNITY EMPLOYER

Appendix G

Waste Disposal Documentation

PROJECT SUMMARY REPORT OF

Job No. : : 2393S

Reporting FROM : 03-01-01 00:00 TO : 03-30-01 23:59

DATE : 03-30-01
TIME : 10:56:11

Transaction #	Date	Truck No.	Site	Name	Net Tons
135512	03-26-01	BTC469	U.S. NAVAL BASE	GLOBAL REMEDIATION	26.48
135513	03-26-01	GNB	U.S. NAVAL BASE	GLOBAL REMEDIATION	28.09
135514	03-26-01	BTC694	U.S. NAVAL BASE	GLOBAL REMEDIATION	23.60
135515	03-26-01	BTC692	U.S. NAVAL BASE	GLOBAL REMEDIATION	30.64
135516	03-26-01	BBT669	U.S. NAVAL BASE	GLOBAL REMEDIATION	26.32
135517	03-26-01	BTC169	U.S. NAVAL BASE	GLOBAL REMEDIATION	40.15
135518	03-26-01	DROCK103	U.S. NAVAL BASE	GLOBAL REMEDIATION	28.28
135519	03-26-01	DROCK104	U.S. NAVAL BASE	GLOBAL REMEDIATION	25.89
135520	03-26-01	DROCK102	U.S. NAVAL BASE	GLOBAL REMEDIATION	29.13
135523	03-26-01	MARQ13	U.S. NAVAL BASE	GLOBAL REMEDIATION	39.54
135524	03-26-01	MARQ12	U.S. NAVAL BASE	GLOBAL REMEDIATION	31.44
135533	03-27-01	DROCK103	U.S. NAVAL BASE	GLOBAL REMEDIATION	30.57
135534	03-27-01	DROCK105	U.S. NAVAL BASE	GLOBAL REMEDIATION	29.85
135535	03-27-01	BTC692	U.S. NAVAL BASE	GLOBAL REMEDIATION	37.27
135536	03-27-01	BTC169	U.S. NAVAL BASE	GLOBAL REMEDIATION	37.08
135537	03-27-01	BBT669	U.S. NAVAL BASE	GLOBAL REMEDIATION	29.67
135544	03-27-01	GNB	U.S. NAVAL BASE	GLOBAL REMEDIATION	25.78
135545	03-27-01	MARQ13	U.S. NAVAL BASE	GLOBAL REMEDIATION	26.67
135547	03-27-01	MARQ12	U.S. NAVAL BASE	GLOBAL REMEDIATION	26.98
135546	03-27-01	MASSE	U.S. NAVAL BASE	GLOBAL REMEDIATION	29.36
135548	03-27-01	DROCK104	U.S. NAVAL BASE	GLOBAL REMEDIATION	27.26
135585	03-29-01	BTC694	U.S. NAVAL BASE	GLOBAL REMEDIATION	27.51
135586	03-29-01	BTC469	U.S. NAVAL BASE	GLOBAL REMEDIATION	28.79
135588	03-29-01	DROCK103	U.S. NAVAL BASE	GLOBAL REMEDIATION	27.57
135589	03-29-01	MARQ12	U.S. NAVAL BASE	GLOBAL REMEDIATION	31.27
135590	03-29-01	MASSE	U.S. NAVAL BASE	GLOBAL REMEDIATION	28.99
135591	03-29-01	DROCK105	U.S. NAVAL BASE	GLOBAL REMEDIATION	27.09
135612	03-30-01	BTC694	U.S. NAVAL BASE	GLOBAL REMEDIATION	31.30
135613	03-30-01	DROCK105	U.S. NAVAL BASE	GLOBAL REMEDIATION	27.22
135614	03-30-01	DROCK103	U.S. NAVAL BASE	GLOBAL REMEDIATION	30.03
135615	03-30-01	MARQ12	U.S. NAVAL BASE	GLOBAL REMEDIATION	29.66
135616	03-30-01	MASSE	U.S. NAVAL BASE	GLOBAL REMEDIATION	27.11
135617	03-30-01	BTC469	U.S. NAVAL BASE	GLOBAL REMEDIATION	30.38
135618	03-30-01	BTC169	U.S. NAVAL BASE	GLOBAL REMEDIATION	52.62
TOTALS :					1029.59

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee –For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr Loudon (Street / City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial 469 No. 469

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz /Non-Regulated (28456 Act) (Soil for Recycling)	EST. 25 Ton		
	Esmi/Cheryl Carignan	79,100 26,140 26.48 ton		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135512 Time In Time Out 10:39 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 079100lb
Tare : 026140lb STO
==========
Net : 52960lb

Net Tons : 26.48

Truck No. :BTC469
Owner :BTC TRUCKING

Job No. :23935
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 26.48

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : 469

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. DEpt. Groton, CT from US Naval Submarinebase New LOndon

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee --For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr. Loudon (Street / City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 694

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (31006-A04) (Soil for REcycling)	EST 25 Ton		
	Esmi/Cheryl Caergran	73,060 25,860 23.60/Ton		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE -- Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

per

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135514 Time In Time Out 11:44 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 073060lb
Tare : 025860lb STO
==========
Net : 47200lb

Net Tons : 23.60

Truck No. :BTC694
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 78.17

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International Dr. Loudon (Street, City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/9NBT Vehicle or Car Initial No. 2-569

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated V483126 CT BT 25 Tons (Soil for Recycling)			
	ESMI/Cheryl Cavanaugh	89,560 33,380 28.09 Tons		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

per

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135513 Time In

Time Out 10:45 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 089560lb
Tare : 033380lb STO
==========
Net : 56180lb

Net Tons : 28.09

Truck No. :GNB
Owner :JERRY

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 54.57

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee – For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr. (Street) Loudon (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 692

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (Soil for Recycling) (0330426 ME) Ex 25 Ton			
	ESMI / Cheryl Carignan	93,960 31,680 30.64/ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Carmen P. Edmondson Shipper, Per 540ASE, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135515 Time In Time Out 11:45 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 093960lb
Tare : 032680lb STO
==========
Net : 61280lb

Net Tons : 30.64

Truck No. :BTC692
Owner :BTC TRUCKING

Job No. :23939
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 108.81

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : Cort M.

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. DEpt. Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee – For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr. (Street) Loudon (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC / BBT Vehicle or Car Initial No. 669

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (02 31307 MG) (Soil for Recycling)	EST 25 TON		
	ESMI / Cherry / Carrigan	88,800 36,160 26.3 / TON		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per Dal Pelletier

Shipper, Per S4D1 ST, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135516 Time In Time Out 11:46 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 0888001b
Tare : 0361601b STO
==========
Net : 526401b

Net Tons : 26.32

Truck No. :BBT669
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 135.13

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : Dale Pelletier

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International Dr. (Street) Loudon (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 169

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (05 2070 ng) (soil for Recycling)	EST 85 TON		
	ESMI / Cheryl Caegnan	113,980 33,680 40.15/TON		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per (the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per 540 NSE, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135517 Time In Time Out 11:47 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 113980lb
Tare : 033680lb STO
==========
Net : 80300lb

Net Tons : 40.15

Truck No. :BTC169
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 175.28

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : _____

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. DEpt. GRoton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to ESMI

Destination 67 International DR. Loudon (Street, City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/Dock 103 Vehicle or Car Initial No.

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (23022-A Ct) (Soil for Recycling)	Est 25 Ton		
	ESMI/Cheryl Carignan	82,980		
		26,420		
		28.28/Ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

1

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135518 Time In Time Out 11:54 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 0829801b
Tare : 0264201b STO
==========
Net : 565601b

Net Tons : 28.28

Truck No. : DROCK103
Owner :

Job No. : 2393S
Site : U.S. NAVAL BASE
Address : 39 ENVIR. DEPT
City : GRONTON
State / Zip : CT. 06349

Running Tonnage : 203.56

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : Gerry St Jean 103

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from US Naval Submarinebase New LOndon

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to ESMI

Destination 67 International DR. (Street) Loudon (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier DRCK / BTC 104 Vehicle or Car Initial No. 104

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (V 366204)	EST 25 TON		
	(Soil for REcycling)			
	ESMI / Cheryl Carignan	78,840		
		27,060		
		25.89 / TON		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per 5481 SC, ENVIRONMENTAL Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135519 Time In Time Out 11:55 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 078840lb
Tare : 27060lb STD
==========
Net : 51780lb

Net Tons : 25.89

Truck No. :DROCK104
Owner :DROCK TRUCKING

Running Tonnage : 229.45

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : _____

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr. Loudon (Street / City) State of NH Zip Code 03301 County of

Routing Delivering Carrier Dock/BTC Vehicle or Car Initial No.

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (20540-A) CT (Soil for Recycling)	Est 25 Tons		
	Esmi / Cheryl Carrigan	85,620 27,360 29.13 Ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SUBASE Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135520 Time In Time Out 12:15 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 085620lb
Tare : 027360lb STO
==========
Net : 58260lb

Net Tons : 29.13

Truck No. :DROCK102
Owner :

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 258.58

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. DEpt. Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee – For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr. Loudon (Street, City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC #13 Vehicle or Car Initial APM No. 13

Collect On Delivery

$ _____ **and remit to:** _____

_____ **Street** _____ **City** _____ **State**

C. O. D. charge to be paid by { **Shipper** ☐ **Consignee** ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated	Est 25 TON		
	(Soil for REcycling) (V20180 ct)			
	ESMI/Cheryl Carrigan	109,620 29,540 39.574 TON		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "**TO BE PREPAID.**"

Received $_____ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per_____
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per X-11 P. Cunningham

Shipper, Per SUBASE, Environmental Agent, Per _____

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

1

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135523 Time In 13:06 Time Out 13:12 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 108620lb INB KEY
Tare : 029540lb
==========
Net : 79080lb

Net Tons : 39.54

Truck No. :MARQ13
Owner :AP MARQUARD

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 298.12

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : _____

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 env. Dept Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee --For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr. Loudon (Street, City) State of NH Zip Code 03301 County of

Routing Delivering Carrier ~~Marquard~~ BTC Vehicle or Car Initial No. 12

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (Soil for Recycling) (63670 ct)	EST 25 Ton		
	ESMI/Cheryl Carignan	90,700 27,820 31.44/Ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per

(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SUBASE Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135524 Time In 13:07 Time Out 13:19 Date 03-26-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 90700lb INB KEY
Tare : 027820lb
==========
Net : 62880lb

Truck No. :MARQ12
Owner :AP MARQUARD

Net Tons : 31.44

Running Tonnage : 329.56

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : _____

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept. Groton CT from US NAVAL Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BFC Vehicle or Car Initial No. 103

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ / NON Regulated (Soil for Recycling) (LPO-ZA ct)	est 25 TON		
	ESMI / Michele Menepace 3/27/01	87560		
		26420		
		30.57	TONS	

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

per

Shipper, Per SUBASE / Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135533 Time In Time Out 07:00 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 87560lb KEY
Tare : 026420lb STO
==========
Net : 61140lb

Truck No. :DROCK103
Owner :

Net Tons : 30.57

Running Tonnage : 360.13

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : Gary Allen 103

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. DEpt. Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee –For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr. (Street) Loudon (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier Dock / BTC Vehicle or Car Initial No. 105

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (Soil for Recycling) (2035 - A ct)	Est 25 TON		
	ESMI / Michele Menapell 3/27/01	86620 26920		
		29.85	TONS	

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, **"TO BE PREPAID."**

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per X

Shipper, Per SUBMSB, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135534 Time In 07:00 Time Out 07:04 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 866201b INB KEY
Tare : 0269201b
==========
Net : 597001b

Net Tons : 29.85

Truck No. : DROCK105
Owner :

Running Tonnage : 389.98

Job No. : 2393S
Site : U.S. NAVAL BASE
Address : 39 ENVIR. DEPT
City : GRONTON
State / Zip : CT. 06349

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : _____

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee – For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr (Street) Loudon (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 692

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (Soil for REcycling) (03-30406 MT)	EST 25 Tons		
	ESMI/Michele Monteiro 3/27/01	107220 32680 37.27	70NS	

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per X

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135535 Time In Time Out 07:14 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 107220lb
Tare : 032680lb STO
==========
Net : 74540lb

Net Tons : 37.27

Truck No. :BTC692
Owner :BTC TRUCKING

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 427.25

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : Cort M.

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from US Naval Submarinebase New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr. (Street) Loudon (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 169

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per

(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	Non-Haz / Non-Regulated (Soil for Recycling) (05 20970 ME)	EST 25 TON		
	ESMI / Michele Marquis 3/27/01	107840 33680		
		37.08	Tons	

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per X

Shipper, Per SUBASE Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135536 Time In Time Out 07:15 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 107840lb
Tare : 033680lb STO
==========
Net : 74160lb

Net Tons : 37.08

Truck No. :BTC169
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 464.33

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : _____

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from US Naval Submarinebase New LOndon

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International Dr Loudon (Street / City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/BBt Vehicle or Car Initial No. 669

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NOn-Haz /NOn-Regulated (Soil for REcycling) (02 03130 ME)	Bt 25 TON		
		45500		
	ESMI/Michele Morey	36160		
	3/27/01	29.67	TONS	

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SUSAN S. ENV remediation Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135537 Time In Time Out 07:23 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 0955001b
Tare : 0361601b STO
==========
Net : 593401b

Net Tons : 29.67

Truck No. :BBT669
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 494.00

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : Dale Pelletier

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept. Groton, CT from US NAVAL Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee – For purposes of notification only.)

Destination 67 International Dr. London (Street, City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/GNB Vehicle or Car Initial No. 2-569

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON-HAZ / NON Regulated (Soil for Recycling)	Est 25 TON		
	(U 49316 CT)			
	ESMI / Cheryl Calgron	81,940 33,380 25.78/ ton		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per

(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

Shipper, Per SUBASE Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135544 Time In Time Out 10:35 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 0849401b
Tare : 0333801b STO
==========
Net : 515601b

Net Tons : 25.78

Truck No. :GNB
Owner :JERRY

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 519.78

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept. Groton, CT from US Naval Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee – For purposes of notification only.)

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier Bte/Marquardt Vehicle or Car Initial No. 13

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON-HAZ / NON Regulated (Soil for Recycling) (V 20190 ct)	Est 25 TON		
	ESMI / Cheey / Cooper	82,880 29,540 26.07/TON		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding $

per

Shipper, Per SUBASE Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135545 Time In Time Out 10:53 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 0828801b
Tare : 0295401b STO
==========
Net : 533401b

Net Tons : 26.67

Truck No. :MARQ13
Owner :AP MARQUARD

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 546.45

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : Mclaro

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept Groton, CT from US NAVAL Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee – For purposes of notification only.)

Destination 67 International DR (Street) Loudon (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/Marquardt Vehicle or Car Initial No. 12

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON-HAZ / NON Regulated (Soil for Recycling) (63670 CT)	Est 25 TON		
	ESMI / Cheryl Carignan	81,760 27,800 26.98 ton		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

Shipper, Per SUBASE ENVIRONMENTAL Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

1

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135547 Time In Time Out 10:55 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 081760lb
Tare : 027800lb STO
==========
Net : 539601b

Net Tons : 26.98

Truck No. :MARQ12
Owner :AP MARQUARD

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 573.43

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env Dept Groton CT from US NAVAL Submarine Base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee --For purposes of notification only.)

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BK / MASS Vehicle or Car Initial No. 9

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ / NON Recycling (Soil For Recycling) (97/6 ct)	Est 25 TON		
	ESMI / Cheryl Carrigan	87,680 28,960 29.36 / ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per N Martin Mann

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135546 Time In 10:54 Time Out 11:11 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 0876801b INB
Tare : 0289601b
==========
Net : 587201b

Net Tons : 29.36

Truck No. :MASSE
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 602.79

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : Matt Mace

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept. Groton, CT from US NAVAL submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMF (Mail or street address of consignee – For purposes of notification only.)

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier B&C/Dock Vehicle or Car Initial No. 104

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ / NON Regulated (Soil for Recycling) (U36620CT)	EST 25 TON		
		081580		
		~~27060~~		
	ESMI / Michele Morlett 3/27/01	27.26	TONS	

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per X

Shipper, Per SYBASE, Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135548 Time In Time Out 12:19 Date 03-27-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 081580lb
Tare : 270601b STO
==========
Net : 545201b

Net Tons : 27.26

Truck No. : DROCK104
Owner : DROCK TRUCKING

Job No. : 2393S
Site : U.S. NAVAL BASE
Address : 39 ENVIR. DEPT
City : GRONTON
State / Zip : CT. 06349

Running Tonnage : 630.05

Est. Total Job Ton : 300

Max. Acceptable Soil: 600

Driver : _____

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV Dept Groton CT from US NAVAL Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee – For purposes of notification only.)

Consigned to ESMI

Destination 67 International DR (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC 694 Vehicle or Car Initial No. 694

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ - NON Regulated	EST 25 TON		
	(Soil for Recycling) (31006-A)			
	ESMI/Cheryl Carrigan	80,880		
		25,960		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding per $

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135585 Time In Time Out 10:13 Date 03-29-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 080880lb
Tare : 025860lb STO
==========
Net : 55020lb

Net Tons : 27.51

Truck No. :BTC694
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 657.56

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 35 Env. Dept Groton CT from US Naval Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier Btc 469 Vehicle or Car Initial No. 469

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ / NON Regulated (Soil for Recycling) (28456-A)	EH 25 TN		
	ESMI / Cheryl Carignan	83720 26,140 28.79 / Ton		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per X

Shipper, Per SYBASE, Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135586 Time In Time Out 10:14 Date 03-29-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 083720lb
Tare : 026140lb STO
==========
Net : 57580lb

Net Tons : 28.79

Truck No. :BTC469
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 686.35

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : 469

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton CT from US Naval Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee – For purposes of notification only.)

Destination 67 International DR (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier B+C / Mock Vehicle or Car Initial No. 103

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ / NON Regulated (Soil for Recycling) (230ZLA CX)	EST 25 TON		
	ESMI / Cheryl Carignan	81,560 26,420 27.57 / ton		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per (the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

Carmen E Edmondson Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135588 Time In Time Out 10:50 Date 03-29-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 081560lb
Tare : 026420lb STO
==========
Net : 55140lb

Truck No. :DROCK103
Owner :

Net Tons : 27.57

Running Tonnage : 713.92

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : 103

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept Groton CT from US NAVAL Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee – For purposes of notification only.)

Consigned to ESMI

Destination 62 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier B+C Marquardt Vehicle or Car Initial No. 12

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ / NON Regulated (Soil for Recycling) (63670 CT)	25+ 25 Ton		
	ESMI / Cheryl Carignan	90,340 27,800 31 27/ Ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SYBASE, Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135589 Time In Time Out 10:53 Date 03-29-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 090340lb
Tare : 027800lb STO
==========
Net : 62540lb

Net Tons : 31.27

Truck No. :MARQ12
Owner :AP MARQUARD

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 745.19

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : _____

UNIFORM STRAIGHT BILL OF LADING Orig[illegible]gotiable—Domestic

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 EMV Dept Groton CT from US NAVAL Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International DR (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier Dock Vehicle or Car Initial No. 105

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON Haz / NON Regulated (Soil for Recycling) (20350 A CT)	EST 25 TON		
	ESMI / Cheryl Carignan	81,080 26,900 27.09 TON		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, **"TO BE PREPAID."**

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SUBASE, ENVIRONMENTAL Agent, Per

Permanent post-office address of shipper.

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135591 Time In Time Out 11:13 Date 03-29-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 081080lb
Tare : 026900lb STD
==========
Net : 54180lb

Net Tons : 27.09

Truck No. : DROCK105
Owner :

Job No. : 2393S
Site : U.S. NAVAL BASE
Address : 39 ENVIR. DEPT
City : GRONTON
State / Zip : CT. 06349

Running Tonnage : 801.27

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept Groton CT from US NAVAL Submarine BASE New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to ESMII

Destination 67 International Dr (Street) Londonderry (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/MASSE Vehicle or Car Initial No. 9

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ / NON Regulated (Soil for Recycling) (99716 ct)	Est 25 TON		
	ESMII / Energy Conversion	86,960 28,980 28.99 / ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, **"TO BE PREPAID."**

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135590 Time In Time Out 10:54 Date 03-29-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 086960lb
Tare : 028980lb STO
==========
Net : 579801b

Net Tons : 28.99

Truck No. :MASSE
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 774.18

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : _____

UNIFORM STRAIGHT BILL OF LADING **Origir** **Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept Groton CT from US NAVAL Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee – For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 694

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (31006-A CT)	EST 25 TON		
	ESMI/Cheryl Carrignan	88,460 25,860 31.30/TON		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

Per X

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, **"TO BE PREPAID."**

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

James E. Edmondston Shipper, Per SUBASE ENVIRONMENTAL Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

Re-Print

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135612 Time In Time Out 07:16 Date 03-30-01

Customer Name:GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 0884601b
Tare : 0258601b STO
==========
Net : 626001b

Net Tons : 31.30

Truck No. :BTC694
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage :

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env Dept Groton CT from US Naval Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International DR (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/DROCK Vehicle or Car Initial No. 105

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (20350 A CT)	Est 25 Ton		
	ESMI/(Chery) Carignan	81,340 26,900 27.22/Ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SUBASE, Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

Re-Print

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135613 Time In Time Out 07:17 Date 03-30-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 081340lb
Tare : 026900lb STO
==========
Net : 54440lb

Net Tons : 27.22

Truck No. :DROCK105
Owner :

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage :

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept Groton CT from US NAVAL Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee – For purposes of notification only.)

Destination 67 International DR (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/DROCK Vehicle or Car Initial No. 103

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (23022 ACT)	EST 85 TON		
	ESMI/Cherry Cargnan	86,480 26,420 30.03/Ton		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

per X Gary [illegible]

[illegible] Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135614 Time In Time Out 07:18 Date 03-30-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 086480lb
Tare : 026420lb STO
==========
Net : 60060lb

Net Tons : 30.03

Truck No. :DROCK103
Owner :GARY

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 889.82

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : Gary [illegible] #103

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept Groton CT from US Naval Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BFC/MARQUARDT Vehicle or Car Initial No. 12

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (63670 CT)	EST 25 TON		
	ESMI / Cheryl Carignan	87,120 27,800 29.66 / TON		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per (the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135615 Time In Time Out 07:19 Date 03-30-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 087120lb
Tare : 027800lb STO
==========
Net : 59320lb

Net Tons : 29.66

Truck No. :MARQ12
Owner :AP MARQUARD

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 919.48

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV Dept Groton CT from US Naval Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International DR (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/MASSE Vehicle or Car Initial No. 9

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (99716 CT)	EST 25 TON		
	ESMI/Cheryl Carignan	83,200 28,980 27.11/Ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

X per

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper,

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135616 Time In Time Out 07:20 Date 03-30-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 083200lb
Tare : 028980lb STO
==========
Net : 54220lb

Net Tons : 27.11

Truck No. :MASSE
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 946.59

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : Matt Mace

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV Dept Groton CT from US NAVAL Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee – For purposes of notification only.)

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 469

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (28456 A CT)	EST 25 TON		
	ESMI / Cheryl Carignan	86,900 26,140 30,381 TON		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

Shipper, Per SUBASE, Environmental Agent, Per

Permanent post-office address of shipper.

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135617 Time In Time Out 07:21 Date 03-30-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 086900lb
Tare : 026140lb STD
==========
Net : 60760lb

Net Tons : 30.38

Truck No. :BTC469
Owner :BTC TRUCKING

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 976.97

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : #469

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV Dept Groton CT from US NAVAL Submarine base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee – For purposes of notification only.)

Destination 67 International DR (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 169

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (0520970 CT)	EST 25 TON		
	ESMI/Cheryl Carignan	138,920 33,680 52.02/Ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per (the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per 543A3E, Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135618 Time In Time Out 08:39 Date 03-30-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 138920lb
Tare : 033680lb STO
==========
Net : 105240lb

Net Tons : 52.62

Truck No. :BTC169
Owner :BTC TRUCKING

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 1029.59

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : _____

PROJECT SUMMARY REPORT OF

Job No. : : 2393S

Reporting FROM : 04-01-01 00:00 TO : 04-06-01 23:59

DATE : 04-06-01
TIME : 07:52:11

Transaction #	Date	Truck No.	Site	Name	Net Tons
135675	04-05-01	GNB	U.S. NAVAL BASE	GLOBAL REMEDIATION	28.03
135676	04-05-01	BTC469	U.S. NAVAL BASE	GLOBAL REMEDIATION	26.40
135677	04-05-01	MASSE	U.S. NAVAL BASE	GLOBAL REMEDIATION	25.32
135678	04-05-01	DROCK103	U.S. NAVAL BASE	GLOBAL REMEDIATION	26.31
135679	04-05-01	DROCK102	U.S. NAVAL BASE	GLOBAL REMEDIATION	28.78
135680	04-05-01	GLUCK	U.S. NAVAL BASE	GLOBAL REMEDIATION	28.00
135684	04-05-01	MARQ13	U.S. NAVAL BASE	GLOBAL REMEDIATION	26.73
135691	04-06-01	BTC169	U.S. NAVAL BASE	GLOBAL REMEDIATION	33.22
TOTALS :					222.79

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from U.S. NAVAL SUB BASE NEW LONDON

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee – For purposes of notification only.)

Consigned to ESMI

Destination 61 International Dr. (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/GNB Vehicle or Car Initial No. 2-569

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON REGULATED (SOIL FOR RECYCLING) (05 43201 CT)	EST. 25 TON		
	ESMI/Cheryl Carignan	88,360 32,300 28.03/Ton		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

Shipper, Per Sugass Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135675 Time In Time Out 10:29 Date 04-05-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 088360lb
Tare : 32300lb STO
==========
Net : 56060lb

Net Tons : 28.03

Truck No. :GNB
Owner :JERRY

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 1057.62

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env. Dept. Groton, CT from U.S. NAVAL SUB BASE NEW LONDON

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to ESMI

Destination 67 INTERNATIONAL DR. (Street) LOUDON (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 469

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON REGULATED	EST. 25 TON		
	(SOIL FOR RECYCLING) (28456 A CT)			
	ESMI/Cherry/Corignan	78,940		
		26,140		
		26.40/TON		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per

(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

Shipper, Per SUBASE ENVIRONMENTAL Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

1

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135676 Time In Time Out 10:30 Date 04-05-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 078940lb
Tare : 026140lb STO
==========
Net : 52800lb

Net Tons : 26.40

Truck No. :BTC469
Owner :BTC TRUCKING

Job No. :23938
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 1084.02

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : R. Cotta

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env Dept Groton CT from US Naval Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/MASSE Vehicle or Car Initial No. 9

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (99716 CT)	Est 25 TON		
	ESMI/Cheryl Carignan	70,620 28,980 25 3/4 TON		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

X per Matt Mace

Shipper, Per SUBASE ENVIRONMENTAL Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per (the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

1

Bill of Lading

6

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135677 Time In Time Out 11:02 Date 04-05-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 079620 lb
Tare : 028980 lb STO
==========
Net : 50640 lb

Net Tons : 25.32

Truck No. : MASSE
Owner : BTC TRUCKING

Job No. : 2393S
Site : U.S. NAVAL BASE
Address : 39 ENVIR. DEPT
City : GRONTON
State / Zip : CT. 06349

Running Tonnage : 1109.34

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV Dept Groton CT from US NAVAL Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee --For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr (Street) London (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/DROCK Vehicle or Car Initial No. 103

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (23022 A CT)	Est 25 TON		
	ESMI/Cheryl Carignan	79,040 26,420 26.31 Ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE – Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

X per

Shipper, Per Subase Environmental Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

1

2

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135678 Time In Time Out 11:16 Date 04-05-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 079040lb
Tare : 026420lb STO
==========
Net : 52620lb

Net Tons : 26.31

Truck No. :DROCK103
Owner :GARY

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 1135.65

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : Gary 103

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept Groton CT from US NAVAL Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to ESMI

Destination 67 International DR London (Street, City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/DROCK Vehicle or Car Initial No. 102

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (20540 A CT)	Est 25 TON		
	ESMI/Cheryl Carrigan	84,920 27,360 28.78/Ton		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is *carrier's or shipper's weight. NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

X per

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per (the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

Shipper, Per SUBASE ENVIRONMENTAL Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

1

2

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135679 Time In Time Out 11:33 Date 04-05-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 0849201b
Tare : 0273601b STO
==========
Net : 575601b

Net Tons : 28.78

Truck No. :DROCK102
Owner :

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 1164.43

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver : Drock #102

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at BOX 39 ENV. DEPT. GROTON, CT from U.S. NAVAL SUB BASE NEW LONDON

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 INTERNATIONAL DR. (Street) LOUDON (City) State of NH Zip Code 03301 County of

Routing Delivering Carrier BTC/GLUCK Vehicle or Car Initial No. 3

Collect On Delivery

$ and remit to:

Street City State

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON REGULATED (SOIL FOR RECYCLING) (26862 A CT)	EST. 25 TON		
	ESMI/Cheryl Carignan	82,040 26,040 28.00 / TON		

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

X per

Shipper, Per SUBASE Environmental Agent, Per

Permanent post-office address of shipper,

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:

The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per (the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

1

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

2

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135680 Time In 11:46 Time Out 12:08 Date 04-05-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 0820401b INB
Tare : 0260401b
==========
Net : 560001b

Net Tons : 28.00

Truck No. :GLUCK
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 1192.43

Est. Total Job Ton : 300

Max. Acceptable Soil: 1000

Driver :

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 ENV. Dept Groton CT from US NAVAL Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

Consigned to ESMI (Mail or street address of consignee—For purposes of notification only.)

Destination 67 International DR (Street) London (City) State of WH Zip Code 03306 County of

Routing Delivering Carrier BTC/MARQUARDT Vehicle or Car Initial No. 13

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ NON Regulated (Soil for Recycling) (V 20180)	EST 25 TON		
	ESMI/Cheryl Carignan	83,000 29,540 26.73/ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SUBASE ENVIRONMENTAL Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

1

(2)

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135684 Time In

Time Out 12:22 Date 04-05-01

Customer Name: GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 083000lb
Tare : 029540lb STO
==========
Net : 53460lb

Net Tons : 26.73

Truck No. :MARQ13
Owner :AP MARQUARD

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 1219.16

Est. Total Job Ton : 300

Max. Acceptable Soil: 1400

Driver : Nelson

UNIFORM STRAIGHT BILL OF LADING **Original—Not Negotiable—Domestic**

Shipper's #

Carrier

Agent's No.

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading,

at Box 39 Env Dept Groton CT from US NAVAL Sub base New London

the property described below, in apparent good order, except as noted (contents and condition of contents of packages unknown) marked, consigned and destined as shown below, which said company (the word company being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its own railroad, water line, highway route or routes, or within the territory of its highway operations, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed, as to each carrier of all or any of said property over all or any portion of said route to destination, and as to each party at any time interested in all or any of said property, that every service to be performed hereunder shall be subject to all the conditions not prohibited by law, whether printed or written, herein contained, including the conditions on back hereof, which are hereby agreed to by the shipper and accepted for himself and his assigns.

(Mail or street address of consignee—For purposes of notification only.)

Consigned to ESMI

Destination 67 International Dr (Street) London (City) State of WH Zip Code 03301 County of

Routing Delivering Carrier BTC Vehicle or Car Initial No. 169

Collect On Delivery

$ and remit to:

Street City State

C. O. D. charge to be paid by { Shipper ☐ Consignee ☐

No. Packages	Description of Articles, Special Marks, and Exceptions	*Weight (Sub. to Cor.)	Class or Rate	Check Column
	NON HAZ Non Regulated (Soil for Recycling) (V 50797 CT)	Est 85 Ton		
	ESMI/Cheryl Carignan	100,120 33 600 33 22/Ton		

Subject to Section 7 of conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statements:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor.)

If charges are to be prepaid, write or stamp here, "TO BE PREPAID."

Received $ to apply to prepayment of the charges on the property described hereon.

Agent or Cashier

Per
(the signature here acknowledges only the amount Prepaid.)

Charges Advanced:

$

*If the shipment moves between two ports by a carrier by water, the law requires that the bill of lading shall state whether it is "carrier's or shipper's weight." NOTE—Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.

The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding

per

Shipper, Per SUBASE ENVIRONMENTAL Agent, Per

Permanent post-office address of shipper,

(This Bill of Lading is to be signed by the shipper and agent of the carrier issuing same.)

Bill of Lading

ESMI
67 INTERNATIONAL DR.
LOUDON NH 03307
(603) 783-0228

Transaction No. 135691 Time In Time Out 07:43 Date 04-06-01

Customer Name:GLOBAL REMEDIATION
P.O. BOX 193
BOSTON, MA

Gross: 100120lb KEY
Tare : 033680lb STO
==========
Net : 66440lb

Net Tons : 33.22

Truck No. :BTC169
Owner :BTC TRUCKING

Job No. :2393S
Site :U.S. NAVAL BASE
Address :39 ENVIR. DEPT
City :GRONTON
State / Zip :CT. 06349

Running Tonnage : 1252.38

Est. Total Job Ton : 300

Max. Acceptable Soil: 1400

Driver : _____

k26

FINISHED

CONNECTICUT CARTING
A Waste Management Company

Ticket: 48428 Driver: A. CHAPMAN 198 Date Requested: 03/14/2001
Opened by: MMOORE2 Date Dispatched: 03/15/2001
Customer: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340 617-364-0012
Attn.: PAUL MASTRODOMENICO
Requested by: PAUL

Load Type: FULL FROM YARD Map Code Map Grid OWR
Dump Site: GALBO'S BULKY INCOMING

Service	Quantity	Yards	Weight	Job	Special Description
30YD CONTAINER - OPEN	1.00	30	WOOD		DSW 75

CONTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF
OFF WAHOO AVE.
*****ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR
FOSTER WHEELER**********

Signature: _____

WM 204-0198

G 03860

WASTE MANAGEMENT
GALBO WASTE PAPER
WEIGHTMASTER CERTIFICATE

Date groton

Customer Name Global Services

Gross Weight

Tare Weight

Net Weight 6.85

Driver #442

INCOMING mix

k25 FINISHED N/R

CONNECTICUT CARTING
A Waste Management Company

Ticket: 48430 Driver: K. MARRIOT 198 Date Requested: 03/15/2001
Opened by: MMOORE2 Date Dispatched: 03/15/2001
Customer: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340 617-364-0012
Attn.: PAUL MASTRODOMENICO
Requested by: MEG

Load Type: DO NOT RETURN Map Code Map Grid OWR
Dump Site: GALBO'S BULKY INCOMING

Service	Quantity	Yards	Weight	Job	Special Description
30YD CONTAINER - OPEN	1.00	30	BULKY		B75

CONTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF
OFF WAHOO AVE.
*****ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR
FOSTER WHEELER**********

Signature: K. J. Mariot Date: _____

WM 204-0198

G 03865

WASTE MANAGEMENT
GALBO WASTE PAPER
WEIGHTMASTER CERTIFICATE

Date 3/15/01
SUB BASE GROTON
Customer Name GLOBAL
Gross Weight
Tare Weight
Net Weight 9.2
Driver 30YD FINISHED #456

INCOMING Mix

Signature: _____

k26

CONNECTICUT CARTING
A Waste Management Company

Ticket: 48110 Driver: B. MULDOON 198 Date Requested: 03/07/2001
Opened by: MMOORE2 Date Dispatched: 03/08/2001
Customer: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340 617-364-0012
Attn.: PAUL MASTRODOMENICO
Requested by: MEG

Load Type: EMPTY AND RETURN Map Code Map Grid OWR
Dump Site: GALBO'S BULKY INCOMING

Service	Quantity	Yards	Weight	Job	Special Description
30YD CONTAINER - OPEN	1.00	30	BULKY		B75

CONTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF
OFF WAHOO AVE.
*****ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR
FOSTER WHEELER**********

Signature: K. J. Lubitz

WM 204-0198

G 03594

WASTE MANAGEMENT
GALBO WASTE PAPER
WEIGHTMASTER CERTIFICATE

Date ..... Groton .....

Customer Name ... Globle .....

Gross Weight .....

Tare Weight .....

Net Weight 5.16

Driver B.T. ..... #468

INCOMING mix

k2G

CONNECTICUT CARTING
A Waste Management Company

Ticket: 48415 Driver: ~~K. MARRIOT~~ B McVoon 198 Date Requested: 03/14/2001
Opened by: MMOORE2 Date Dispatched: 03/~~15~~/2001 16
Customer: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340 617-364-0012
Attn.: PAUL MASTRODOMENICO
Requested by: PAUL

Load Type: EMPTY AND RETURN Map Code Map Grid OWR
Dump Site: SEYMOURS-CONCRETE PER LOAD

Service	Quantity	Yards	Weight	Job	Special Description
15YD OPEN CONTAINER	1.00	15	CONCRETE		N/C DSP DSC75

CONTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF OFF WAHOO AVE.
*****ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR FOSTER WHEELER**********

Signature: _____ Date: _____

WM 204-0198

SEYMOUR'S SAND & STONE, INC.
34 BOZRAH ST.
BOZRAH, CONNECTICUT 06334
Phone 889-3395
FAX 889-8466

_____ DELIVERED
_____ PICKED UP 3-16 2000
DELIVER TO USA WASTE
ADDRESS

1 LOAD DEBRIS	50	00
DUMPED AT		
CAROLINE RD		
74670		
SALES TAX	3	00
TOTAL	53	00

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, THE UNDERSIGNED AGREES TO BE RESPONSIBLE FOR ALL DAMAGE DONE TO SIDEWALKS, DRIVEWAYS, GROUNDS OR OTHERWISE. IF LEGAL ACTION IS REQUIRED TO COLLECT THIS BILL ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED.

153011 RECEIVED BY BDM 4/68

74670
36400
38270 = 19.14

k26

CONNECTICUT CARTING
A Waste Management Company

Ticket: 40414 Driver: ~~K. MARRIOT~~ B Nelson 198 Date Requested: 03/14/2001
Opened by: MMOORE2 Date Dispatched: 03/~~15~~ 16/2001
Customer: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340
Attn.: PAUL MASTRODOMENICO 617-364-0012
Requested by: PAUL

Load Type: EMPTY AND RETURN
Dump Site: SEYMOURS-CONCRETE PER LOAD Map Code Map Grid OWR

Service	Quantity	Yards	Weight	Job	Special Description
15YD OPEN CONTAINER	1.00	15	CONCRETE		N/C DSP DSC75

CONTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF OFF WAHOO AVE.
*****ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR FOSTER WHEELER**********

Signature: _____

WM 204-0198

SEYMOUR'S SAND & STONE, INC.
34 BOZRAH ST.
BOZRAH, CONNECTICUT 06334
Phone 889-3395
FAX 889-8466

_____ DELIVERED
_____ PICKED UP 03-16-2001
DELIVER TO WM
ADDRESS

1 load Ulric	50	—
7100		
SALES TAX	3	
TOTAL	53	✓

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, THE UNDERSIGNED AGREES TO BE RESPONSIBLE FOR ALL DAMAGE DONE TO SIDEWALKS, DRIVEWAYS, GROUNDS OR OTHERWISE. IF LEGAL ACTION IS REQUIRED TO COLLECT THIS BILL ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED.

153010 BTM 468
RECEIVED BY

7070
36400
4770 17.34

Ticket: 48416 Driver: B Muldoon ~~K. MARR~~

Opened by: MMOORE2 Date Requested: 03/14/2001

Customer: 198-23382 GLOBAL REMEDIATION SERVICES Date Dispatched: 03/~~15~~/2001 16

GROTON SUB BASE

GROTON CT 06340

Attn.: PAUL MASTRODOMENICO 617-364-0012

Requested by: PAUL

WM CONNECTICUT CARTING
A Waste Management Company

Load Type: EMPTY AND RETURN

Dump Site: SEYMOURS-CONCRETE PER LOAD

Map Code Map Grid OWR

Service	Quantity	Yards	Weight	Job	Special Description
15YD OPEN CONTAINER	1.00	15	CONCRETE		N/C DSP DSC75

CONTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF OFF WAHOO AVE.

*****ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR FOSTER WHEELER**********

Signature: _____ Date: _____

k2G

WM 204-0198

72870
36,400
36470 = 18.24

SEYMOUR'S SAND & STONE, INC.

34 BOZRAH ST.
BOZRAH, CONNECTICUT 06334
Phone 889-3395
FAX 889-8466

_____ DELIVERED

_____ PICKED UP 3-16-2001

DELIVER TO USA WASTE

ADDRESS

1 LOAD DEBRIS	50.00
DUMPED AT	
CHARLESTRO	
72870	
SALES TAX	3.00
TOTAL	53.00

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, THE UNDERSIGNED AGREES TO BE RESPONSIBLE FOR ALL DAMAGE DONE TO SIDEWALKS, DRIVEWAYS, GROUNDS OR OTHERWISE. IF LEGAL ACTION IS REQUIRED TO COLLECT THIS BILL ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED.

153012 BM 468

RECEIVED BY

k2G

CONNECTICUT CARTING
A Waste Management Company

Ticket: 48413 Driver: ~~K. MARRIOT~~ B Muldoon 198 Date Requested: 03/14/2001
Opened by: MMOORE2 Date Dispatched: 03/~~15~~ 16/2001
Customer: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340 617-364-0012
Attn.: PAUL MASTRODOMENICO
Requested by: PAUL

Load Type: EMPTY AND RETURN Map Code Map Grid DWR
Dump Site: SEYMOURS-CONCRETE PER LOAD

Service	Quantity	Yards	Weight	Job	Special Description
15YD OPEN CONTAINER	1.00	15	CONCRETE		N/C DSP DSC75

CONTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF OFF WAHOO AVE.
*****ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR FOSTER WHEELER**********

Signature: _____

WM 204-0198

SEYMOUR'S SAND & STONE, INC.
#4619
34 BOZRAH ST.
BOZRAH, CONNECTICUT 06334
Phone 889-3395
FAX 889-8466

_____ DELIVERED
_____ PICKED UP 3-16 1901
DELIVER TO USA WASTE
ADDRESS

1 LOAD DEBRIS	50	00
DUMPED AT		
CHARNAK RD		
6676		
SALES TAX	3	00
TOTAL	53	00

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, THE UNDERSIGNED AGREES TO BE RESPONSIBLE FOR ALL DAMAGE DONE TO SIDEWALKS, DRIVEWAYS, GROUNDS OR OTHERWISE. IF LEGAL ACTION IS REQUIRED TO COLLECT THIS BILL ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED.

153009 RECEIVED BY BM468

66760
36400
30,360 = 15.18

-k2G

FINISHED

WM CONNECTICUT CARTING
A Waste Management Company

'icket: 48603 Driver: A. CHAPMAN 198
'pened by: MMOORE2
ustomer: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340
ttn.: PAUL MASTRODOMENICO 617-364-0012
equested by: PAUL

Date Requested: 03/19/2001
Date Dispatched: 03/20/2001

.oad Type: ~~EMPTY AND RETURN~~ Do NOT Return
)ump Site: SEYMOURS-CONCRETE PER LOAD Map Code Map Grid OWR

'rvice	Quantity	Yards	Weight	Job	Special Description
'YD OPEN CONTAINER	1.00	15	CONCRETE		N/C DSP DSC75

NTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF
F WAHOO AVE.
***ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR
FOSTER WHEELER**********
**********CONCRETE MUST GO TO SEYMOUR SAND & STONE**********

gnature: K. J. Mulitz
/ 204-0198

75020 Gross Weight
36400 Uteweight

38,620 = 19.31 TONS

SEYMOUR'S SAND & STONE, INC.

34 BOZRAH ST.
BOZRAH, CONNECTICUT 06334
Phone 889-3395
FAX 889-8466

_____ DELIVERED
_____ PICKED UP 3-20 2001
DELIVER TO USA WASTE
ADDRESS

1 Cont DEBRIS	52	00
DUMPED AT		
CATELLUS RD		
7520		
SALES TAX	3	00
TOTAL	55	00

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, THE UNDERSIGNED AGREES TO BE RESPONSIBLE FOR ALL DAMAGE DONE TO SIDEWALKS, DRIVEWAYS, GROUNDS OR OTHERWISE. IF LEGAL ACTION IS REQUIRED TO COLLECT THIS BILL ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED.

153016 402
RECEIVED BY

k26

FINISHED

WM CONNECTICUT CARTING
A Waste Management Company

Ticket: 48602 Driver: A. CHAPMAN 198 Date Requested: 03/19/2001
Opened by: MMOORE2 Date Dispatched: 03/20/2001
Customer: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340 617-364-0012
Attn.: PAUL MASTRODOMENICO
Requested by: PAUL

Load Type: ~~EMPTY AND RETURN~~ Do Not Return Map Code Map Grid OWR
Dump Site: SEYMOURS-CONCRETE PER LOAD

Service	Quantity	Yards	Weight	Job	Special Description
15YD OPEN CONTAINER	1.00	15	CONCRETE		N/C DSP DSC75

CONTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF
OFF WAHOO AVE.
*****ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR
FOSTER WHEELER**********
**********CONCRETE MUST GO TO SEYMOUR SAND & STONE**********

Signature: [signature] Date: 3/20/2001

WM 204-0198

73400
36,400
37,000 = 18.50 TONS

SEYMOUR'S SAND & STONE, INC.
34 BOZRAH ST.
BOZRAH, CONNECTICUT 06334
Phone 889-3395
FAX 889-8466

_____ DELIVERED
_____ PICKED UP 3-20 1901
DELIVER TO USA WASTE
ADDRESS

1 LOAD DEBRIS	50	00
DUMPED AT CARLONE RD		
73400		
SALES TAX	3	00
TOTAL	53	00

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, THE UNDERSIGNED AGREES TO BE RESPONSIBLE FOR ALL DAMAGE DONE TO SIDEWALKS, DRIVEWAYS, GROUNDS OR OTHERWISE. IF LEGAL ACTION IS REQUIRED TO COLLECT THIS BILL ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED.

153015 [signature] 402
RECEIVED BY

k2G

FINISHED

CONNECTICUT CARTING
A Waste Management Company

Ticket: 48601
Opened by: MMOORE2
Customer: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340
Attn.: PAUL MASTRODOMENICO 617-364-0012
Requested by: PAUL

Driver: A. CHAPMAN 198

Date Requested: 03/19/2001
Date Dispatched: 03/20/2001

Load Type: ~~EMPTY AND RETURN~~ DO NOT Return
Dump Site: SEYMOURS-CONCRETE PER LOAD

Map Code | Map Grid | OWR

Service	Quantity	Yards	Weight	Job	Special Description
15YD OPEN CONTAINER	1.00	15	CONCRETE		N/C DSP DSC75

CONTAINERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF OFF WAHOO AVE.
*****ALL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR FOSTER WHEELER**********
**********CONCRETE MUST GO TO SEYMOUR SAND & STONE**********

Signature: [signature]
WM 204-0198

Date: 3/20/2001

76300
-36400
39,900 = 19.95

SEYMOUR'S SAND & STONE, INC.

34 BOZRAH ST.
BOZRAH, CONNECTICUT 06334
Phone 889-3395
FAX 889-8466

_____ DELIVERED
_____ PICKED UP 3-20-2001
DELIVER TO USA WASTE
ADDRESS

1 LOAD DEBRIS	52 00
08:16 AM 03/20/01	
DUMPED AT	
CAROLINE RD	
SALES TAX	3 00
TOTAL	53 00

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, THE UNDERSIGNED AGREES TO BE RESPONSIBLE FOR ALL DAMAGE DONE TO SIDEWALKS, DRIVEWAYS, GROUNDS OR OTHERWISE. IF LEGAL ACTION IS REQUIRED TO COLLECT THIS BILL ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED.

153014 [signature] 462
RECEIVED BY

NISHED

CONNECTICUT CARTING
A Waste Management Company

48692 Driver: A. CHAPMAN 198 Date Requested: 03/21/2001
by: MHODGES Date Dispatched: 03/21/2001
r: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340 617-364-0012
PAUL MASTRODOMENICO
ed by: PAUL

ype: FULL FROM YARD Map Code Map Grid CWR
ite: SEYMOURS-CONCRETE PER LOAD

	Quantity	Yards	Weight	Job	Special Description
EN CONTAINER	1.00	15	CONCRETE		N/C DSP DSC75

IERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF
IOO AVE.
L TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR
ISTER WHEELER**********
RETE MUST GO TO SEYMOUR SAND & STONE AND MUST BE WEIGHTED******
*******ALL PRODUCTS****MUST**** HAVE WEIGHT TICKET**********

ture: _____ Date: 3/21/2001

SEYMOUR'S SAND & STONE, INC.
34 BOZRAH ST.
BOZRAH, CONNECTICUT 06334
Phone 889-3395
FAX 889-8466

#4614

_____ DELIVERED
_____ PICKED UP 3-21-2001
DELIVER TO USA WASTE
ADDRESS

1 LOAD DEBRIS	50	00
DUMPED AT		
CAROLINE RD		
67320 SALES TAX	3	00
TOTAL	53	00

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, THE UNDERSIGNED AGREES TO BE RESPONSIBLE FOR ALL DAMAGE DONE TO SIDEWALKS, DRIVEWAYS, GROUNDS OR OTHERWISE. IF LEGAL ACTION IS REQUIRED TO COLLECT THIS BILL ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED.

153017 Red 402
RECEIVED BY

67320
- 36400
30920 = 15.46

FINISHED

CONNECTICUT CARTING
A Waste Management Company

: 48777 Driver: A. CHAPMAN 198 Date Requested: 03/22/2001
by: MMOORE2 Date Dispatched: 03/23/2001
er: 198-23382 GLOBAL REMEDIATION SERVICES
GROTON SUB BASE
GROTON CT 06340 617-364-0012
PAUL MASTRODOMENICO
ted by: MEG

Type: DO NOT RETURN Map Code Map Grid OWR
Site: SEYMOURS-CONCRETE PER LOAD

e	Quantity	Yards	Weight	Job	Special Description
PEN CONTAINER	1.00	15	CONCRETE		N/C DSP DSC75

NERS ARE LOCATED AT BUILDING A85 ACROSS FROM THE CB COMPOUND OFF
HOO AVE.
LL TICKETS MUST BE SIGNED BY GLOBAL REMEDIATION SERVICES OR
OSTER WHEELER**********
CRETE MUST GO TO SEYMOUR SAND & STONE AND MUST BE WEIGHTED******
********ALL PRODUCTS****MUST**** HAVE WEIGHT TICKET**********

UPS: _____ Date: 3/23/2001

SEYMOUR'S SAND & STONE, INC.
34 BOZRAH ST.
BOZRAH, CONNECTICUT 06334
Phone 889-3395
FAX 889-8466

_____ DELIVERED
_____ PICKED UP 3-23 TO 2001
DELIVER TO USA WASTE
ADDRESS

1 LOAD DEBRIS	50	00
DUMPED AT		
GROUNS RD		
73920 SALES TAX	3	00
TOTAL	53	00

43920
-36400
3752 = 18.76

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, THE UNDERSIGNED AGREES TO BE RESPONSIBLE FOR ALL DAMAGE DONE TO SIDEWALKS, DRIVEWAYS, GROUNDS OR OTHERWISE. IF LEGAL ACTION IS REQUIRED TO COLLECT THIS BILL ALL COSTS OF COLLECTION, INCLUDING REASONABLE ATTORNEY'S FEES, WILL BE ADDED.

153022 462
RECEIVED BY

TILCON

CUSTOMER COPY

TILCON CONNECTICUT INC.
909 Foxon Road
P.O. Box 67
North Branford, CT 06471
(203) 484-2881

397422

TICKET NO		PLANT NO	JOB INFORMATION
97422	PO# ASPHALT CK#	118	

CUSTOMER NO	JOB NO	TIME	DATE
5096	19	13:21	3/20/2001

TOWN	TRUCK NO	TRUCKER	TRUCKER NAME
059	66		

SOLD TO: GLOBAL CONTRACTING SERVICES

JOB DESC: SUB BASE
GROTON

PRODUCT NO	PRODUCT DESCRIPTION
62	RUBBLE DISPOSAL FEE

Silo #

GROSS: 67,540 lb , 30,636 kg (Scale 1)
P.T. TARE: 28,980 lb , 13,145 kg Manual Wt.
NET: 38,560 lb , 17,491 kg

This Load : 19.28 TONS , 17.49 Metric Tonnes

Loads: 5 Accum. Amount: 109.84 TONS , 99.64 Metric Tonnes

RECEIVED BY
DRIVER Norm CUSTOMER

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, I AGREE TO ASSUME RESPONSIBILITY FOR ANY AND ALL DAMAGE RESULTING THEREFROM

TILCON

CUSTOMER COPY

TILCON CONNECTICUT INC.
909 Foxon Road
P.O. Box 67
North Branford, CT 06471
(203) 484-2881

397416

TICKET NO.		PLANT NO.	JOB INFORMATION
97416	PO# ASPHALT CK#	110	

LD TO: GLOBAL CONTRACTING SERVICES

B DESC: SUB BASE
GROTON

CUSTOMER NO.	JOB NO.	TIME	DATE
5096	19	11:50	3/20/2001

TOWN	TRUCK NO.	TRUCKER	TRUCKER NAME
059	66		

MATERIAL NO.	MATERIAL DESCRIPTION
62	RUBBLE DISPOSAL FEE

Silo #

GROSS: 73,180 lb , 33,194 kg (Scale 1)
P.T. TARE: 28,980 lb , 13,145 kg Manual Wt.
NET: 44,200 lb , 20,049 kg

This Load : 22.10 TONS , 20.05 Metric Tonnes

Loads: 4 Accum. Amount: 90.56 TONS , 82.15 Metric Tonnes

RECEIVED BY
DRIVER Norm CUSTOMER

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, I AGREE TO ASSUME RESPONSIBILITY FOR ANY AND ALL DAMAGE RESULTING THEREFROM

TILCON

CUSTOMER COPY

TILCON CONNECTICUT INC.
909 Foxon Road
P.O. Box 67
North Branford, CT 06471
(203) 484-2881

397415

TICKET NO.		PLANT NO	JOB INFORMATION
397415	PO# ASPHALT CK#	118	

SOLD TO: GLOBAL CONTRACTING SERVICES

JOB DESC: SUB BASE
GROTON

CUSTOMER NO	JOB NO	TIME	DATE
5096	19	10:46	8/20/2001

TOWN	TRUCK NO	TRUCKER	TRUCKER NAME
059	66		

PRODUCT NO	PRODUCT DESCRIPTION
62	RUBBLE DISPOSAL FEE

Silo #

P.T.
GROSS: 73,160 lb , 33,185 kg (Scale 1)
TARE: 28,980 lb , 13,145 kg Manual Wt.
NET: 44,180 lb , 20,040 kg

This Load : 22.09 TONS , 20.04 Metric Tonnes

Loads: 3 Accum. Amount: 68.46 TONS , 62.11 Metric Tonnes

RECEIVED BY
DRIVER CUSTOMER

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, I AGREE TO ASSUME RESPONSIBILITY FOR ANY AND ALL DAMAGE RESULTING THEREFROM

TILCON

CUSTOMER COPY

TILCON CONNECTICUT INC.
909 Foxon Road
P.O. Box 67
North Branford, CT 06471
(203) 484-2881

397411

TICKET NO		PLANT NO	JOB INFORMATION
97411	PO# ASPHALT CK#	118	

LD TO:
GLOBAL CONTRACTING SERVICES

B DESC:
SUB BASE
GROTON

CUSTOMER NO	JOB NO	TIME	DATE
5096	19	09:51	3/20/2001

HOWAY	TRUCK NO	TRUCKER	TRUCKER NAME
059	66		

PRODUCT NO	PRODUCT DESCRIPTION
62	RUBBLE DISPOSAL FEE

Silo #

GROSS: 77,640 lb , 35,218 kg (Scale 1)
P.T. TARE: 28,980 lb , 13,145 kg Manual Wt.
NET: 48,660 lb , 22,072 kg

This Load : 24.33 TONS , 22.07 Metric Tonnes

Loads: 2 Accum. Amount: 46.37 TONS , 42.07 Metric Tonnes

RECEIVED BY
DRIVER CUSTOMER

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, I AGREE TO ASSUME RESPONSIBILITY FOR ANY AND ALL DAMAGE RESULTING THEREFROM.

TILCON

CUSTOMER COPY

TILCON CONNECTICUT INC.
909 Foxon Road
P.O. Box 67
North Branford, CT 06471
(203) 484-2881

397405

TICKET NO.		PLANT NO.	JOB INFORMATION
397405	PON ASPHALT CK#	110	

LD TO: GLOBAL CONTRACTING SERVICES

B DESC: US SUB BASE
GROTON

CUSTOMER NO.	JOB NO.	TIME	DATE
5096	19	08:31	3/20/2001

TOWN	TRUCK NO.	TRUCKER	TRUCKER NAME
059	G6		

PRODUCT NO.	PRODUCT DESCRIPTION
62	RUBBLE DISPOSAL FEE

Silo #

GROSS: 73,060 lb , 33,140 kg Manual Wt.
TARE: 28,980 lb , 13,145 kg Manual Wt.
NET: 44,080 lb , 19,995 kg

This Load : 22.04 TONS , 19.99 Metric Tonnes

Loads: 1 Accum. Amount: 22.04 TONS , 19.99 Metric Tonnes

RECEIVED BY
DRIVER CUSTOMER

IN CONSIDERATION OF YOUR MAKING DELIVERY OFF THE HIGHWAY, I AGREE TO ASSUME RESPONSIBILITY FOR ANY AND ALL DAMAGE RESULTING THEREFROM.

Bureau of Waste Prevention

Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J Load Information

Note: Make additional copies of this page as necessary.

LOAD #: 1

Signature of transporter: C.H.L.
Receiving facility: 7/5/01
Date received: 8:07 A.m
Time received: 07-15-01
Date of shipment: 6:00 Am
Time of shipment: 32596-A 666
Truck/Tractor registration:
Trailer n
Load size

LOAD #: 2

Signature of transporter: C.H.L.
Receiving facility: 7/5/01
Date received: 12:07 P.m.
Time received: 7-05-01
Date of shipment: 10:00 Am
Time of shipment: 32569-A 664
Truck/Tractor registration:
Trailer registration: 26.10
Load size (cubic yards/tons)

Brian
Note to Carol
397.50 215-752-0650

LOAD

Signatu
Receiving
Date recei
Time recei
Date of ship
Time of ship
Truck/Tractor registration
Trailer registration
Load size (cubic yards/tons)

LOAD #:

Signature of transporter
Receiving facility
Date received
Time received
Date of shipment
Time of shipment
Truck/Tractor registration
Trailer registration
Load size (cubic yards/tons)

K Log Sheet Volume Information

Total volume this page (cubic yards/tons)
Total carried forward (cubic yards/tons)
Total carried forward and this page (cubic yards/tons)

Page ____ of ____

Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J Load Information

Note: Make additional copies of this page as necessary.

LOAD #: 1

Signature of transporter: Gary Bardo

Receiving facility: CRAPO HILL

Date received: 7/5/01

Time received: 8:05 A.M.

Date of shipment: 07-06-01

Time of shipment: 6.20. AM

Truck/tractor registration: 26498 A CT

Trailer registration: U 48516 CT

Load size (cubic yards/tons): 24.49

LOAD #: 2

Signature of transporter: Gary Bardo

Receiving facility: CRAPO HILL

Date received: 05-06-01

Time received: 1200 P.M.

Date of shipment: 07-06-01

Time of shipment: 10.16 AM

Truck/tractor registration: 26498 A CT

Trailer registration: U 48316 CT

Load size (cubic yards/tons): 22.81

LOAD #: ____

Signature of transporter:

Receiving facility:

Date received:

Time received:

Date of shipment:

Time of shipment:

Truck/tractor registration:

Trailer registration:

Load size (cubic yards/tons):

LOAD #: ____

Signature of transporter:

Receiving facility:

Date received:

Time received:

Date of shipment:

Time of shipment:

Truck/tractor registration:

Trailer registration:

Load size (cubic yards/tons):

K Log Sheet Volume Information

Total volume this page (cubic yards/tons):

Total carried forward (cubic yards/tons):

Total carried forward and this page (cubic yards/tons):

Page ____ of ____

Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J Load Information

Note: Make additional copies of this page as necessary.

LOAD #: 1

Signature of transporter	Drock
Receiving facility	Crapo Hill KR
Date received	July 5
Time received	9:17 A.m.
Date of shipment	July 5
Time of shipment	6:35
Truck/tractor registration	23022-A
Trailer registration	Tri-X
Load size (cubic yards/tons)	24.05

LOAD #: 2

Signature of transporter	Drock
Receiving facility	Crapo Hill KR
Date received	July 5
Time received	12:04 P.m
Date of shipment	July 5
Time of shipment	10:10
Truck/tractor registration	23022-A
Trailer registration	Tri-X
Load size (cubic yards/tons)	24.75

LOAD #: ____

Signature of transporter	
Receiving facility	
Date received	
Time received	
Date of shipment	
Time of shipment	
Truck/tractor registration	
Trailer registration	
Load size (cubic yards/tons)	

LOAD #: ____

Signature of transporter	
Receiving facility	
Date received	
Time received	
Date of shipment	
Time of shipment	
Truck/tractor registration	
Trailer registration	
Load size (cubic yards/tons)	

K Log Sheet Volume Information

Total volume this page (cubic yards/tons)	
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Bureau of Waste Prevention

Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J Load Information

LOAD #:	LOAD #:
Signature of transporter:	Signature of transporter:
Receiving facility: Crapo Hill NB	Receiving facility: Crapo Hill NB
Date received: 2-5-01	Date received: 2-5-01
Time received: 8:30AM 9:28A.m.	Time received: 12:09 P.m.
Date of shipment: 2-5-01	Date of shipment: 2-5-01
Time of shipment: 6:55AM	Time of shipment: 10:25AM
Truck/tractor registration: 20540-A CT	Truck/tractor registration: 20540-A CT
Trailer registration: 3X-	Trailer registration: 3X
Load size (cubic yards/tons): 27.63	Load size (cubic yards/tons): 26.42

LOAD #:	LOAD #:
Signature of transporter:	Signature of transporter:
Receiving facility:	Receiving facility:
Date received:	Date received:
Time received:	Time received:
Date of shipment:	Date of shipment:
Time of shipment:	Time of shipment:
Truck/tractor registration:	Truck/tractor registration:
Trailer registration:	Trailer registration:
Load size (cubic yards/tons):	Load size (cubic yards/tons):

K Log Sheet Volume Information

Total volume this page (cubic yards/tons): _____

Total carried forward (cubic yards/tons): _____

Total carried forward and this page (cubic yards/tons): _____

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Material Shipping Record & Log

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Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

Note: Make additional copies of this page as necessary.

J Load Information

LOAD #: 1

Signature of transporter: [illegible]

Receiving facility: Crapo Hill Landfill ME

Date received: 7-5-01

Time received: 8:18 A.m.

Date of shipment: 7-5-01

Time of shipment: 6:30

Truck/Tractor registration: 27263 A CT

Trailer registration: 05 31074 ME

Load size (cubic yards/tons): 26.47

LOAD #: _____

Signature of transporter:

Receiving facility:

Date received:

Time received:

Date of shipment:

Time of shipment:

Truck/Tractor registration:

Trailer registration:

Load size (cubic yards/tons):

LOAD #: 2

Signature of transporter: [illegible]

Receiving facility: Crapo Hill Landfill ME

Date received: 7-05-01

Time received: 12:07 P.m.

Date of shipment: 7-05-01

Time of shipment: 10:15 A.m.

Truck/Tractor registration: 27263 A Ct

Trailer registration: 053074 ME

Load size (cubic yards/tons): 24.50

LOAD #: _____

Signature of transporter:

Receiving facility:

Date received:

Time received:

Date of shipment:

Time of shipment:

Truck/Tractor registration:

Trailer registration:

Load size (cubic yards/tons):

K Log Sheet Volume Information

Total volume this page (cubic yards/tons): _____

Total carried forward (cubic yards/tons): _____

Total carried forward and this page (cubic yards/tons): _____

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Bureau of Waste Prevention

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Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J Load Information

LOAD #: 1

Signature of transporter: [illegible]

Receiving facility: C.H.L. [illegible]

Date received: 7/5/01

Time received: 10:16 A.M.

Date of shipment: 7/4/01

Time of shipment: 8:30

Truck/Tractor registration: 20350 Mass

Trailer registration: TRL Mass

Load size (cubic yards/tons): 24.08

LOAD #: 2

Signature of transporter: [illegible]

Receiving facility: C.H.L. [illegible]

Date received: 7/5/01

Time received: 2:00

Date of shipment: 7/5/01

Time of shipment: 12:10

Truck/Tractor registration: 20350 Mass

Trailer registration: TRL Mass

Load size (cubic yards/tons): 24.93

LOAD #: _____

Signature of transporter

Receiving facility

Date received

Time received

Date of shipment

Time of shipment

Truck/Tractor registration

Trailer registration

Load size (cubic yards/tons)

LOAD #: _____

Signature of transporter

Receiving facility

Date received

Time received

Date of shipment

Time of shipment

Truck/Tractor registration

Trailer registration

Load size (cubic yards/tons)

K Log Sheet Volume Information

Total volume this page (cubic yards/tons)

Total carried forward (cubic yards/tons)

Total carried forward and this page (cubic yards/tons)

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Material Shipping Record & Log

106 Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J Load Information

LOAD #: 1

Signature of transporter

Receiving facility: C.H.L.

Date received: 7-5-01

Time received: 10:15 A.M.

Date of shipment: 7-5-01

Time of shipment: 8:35

Truck/tractor registration: 32649-A

Trailer registration: U-52833

Load size (cubic yards/tons): 25.44

LOAD #: 2

Signature of transporter

Receiving facility: C.H.L.

Date received: 7/5/01

Time received: 2:01 P.M.

Date of shipment: ~~12:15~~ 7-5-01

Time of shipment: 12:15

Truck/tractor registration: 32649-A

Trailer registration: U-52833

Load size (cubic yards/tons): 22.44

LOAD #: _____

Signature of transporter

Receiving facility

Date received

Time received

Date of shipment

Time of shipment

Truck/tractor registration

Trailer registration

Load size (cubic yards/tons)

LOAD #: _____

Signature of transporter

Receiving facility

Date received

Time received

Date of shipment

Time of shipment

Truck/tractor registration

Trailer registration

Load size (cubic yards/tons)

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K Log Sheet Volume Information

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Total carried forward (cubic yards/tons)

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Bureau of Waste Prevention

Material Shipping Record & Log

Tracking Number

For the shipment of contaminated soil, urban fill, and dredge materials not subject to management under section 310 CMR 40.0035 nor manifesting under 310 CMR 30.000

J Load Information

LOAD #: 1

Signature of transporter: [illegible]

Receiving facility: C.H.L. RE

Date received: 7-5-01

Time received: ~~7:00~~ 9:02 A.m.

Date of shipment: 7-5-01

Time of shipment: 7:15

Truck/tractor registration: 26862-A

Trailer registration: 3X

Load size (cubic yards/tons): 24.47

LOAD #: 2

Signature of transporter: 26862-A

Receiving facility: C.H.L. [illegible]

Date received: 7-5-01

Time received: ~~14:00~~ 12:58 P.m

Date of shipment: 7-5-01

Time of shipment: 11:10

Truck/tractor registration: 26862-A

Trailer registration: 3X

Load size (cubic yards/tons): 24.55

LOAD #: _____

Signature of transporter:

Receiving facility:

Date received:

Time received:

Date of shipment:

Time of shipment:

Truck/tractor registration:

Trailer registration:

Load size (cubic yards/tons):

LOAD #: _____

Signature of transporter:

Receiving facility:

Date received:

Time received:

Date of shipment:

Time of shipment:

Truck/tractor registration:

Trailer registration:

Load size (cubic yards/tons):

K Log Sheet Volume Information

Total volume this page (cubic yards/tons):

Total carried forward (cubic yards/tons):

Total carried forward and this page (cubic yards/tons):

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