COPY

U.S. Army Corps of Engineers

New England Division

Waltham, Massachusetts

AREA OF CONTAMINATION (AOC 43G) GASOLINE UNDERGROUND STORAGE TANKS (AREA 2), SAND AND GAS TRAP, AND FUEL OIL UNDERGROUND STORAGE TANK (AREA 3) DEVENS, MASSACHUSETTS

Contract/Purchase Order No.
DACW33-95-D-0004

Removal Action Report
Delivery Order No. 0004
DCN: VRA-060597-AAHI

June 1997

Printed on recycled paper

WESTON
MANAGERS DESIGNERS/CONSULTANTS

27 97065 RFWR

REMOVAL ACTION REPORT

AREA OF CONTAMINATION (AOC) 43G
GASOLINE UNDERGROUND STORAGE TANKS (AREA 2), SAND AND GAS TRAP, AND FUEL OIL UNDERGROUND STORAGE TANK (AREA 3)
DEVENS, MASSACHUSETTS

Contract/Purchase Order No. DACW33-95-D-0004
Delivery Order No. 0004
DCN: VRA-060597-AAHI

Prepared for

U.S. ARMY CORPS OF ENGINEERS
NEW ENGLAND DIVISION
424 Trapelo Road
Waltham, Massachusetts 02554-9149

Prepared by

Roy F. Weston, Inc.
Devens, Massachusetts 01433

June 1997

Work Order No. 03886-118-004-0292-00

TABLE OF CONTENTS

Title	Page
EXECUTIVE SUMMARY	ES-1
1.0 PURPOSE	1-1
2.0 BACKGROUND AND PHYSICAL SETTING	2-1
2.1 SITE DESCRIPTION AND HISTORY	2-1
2.2 REGIONAL AND LOCAL GEOLOGY	2-1
2.3 REGIONAL AND LOCAL HYDROGEOLOGY	2-2
2.4 PREVIOUS REMOVAL ACTIONS	2-2
2.5 PREVIOUS SITE INVESTIGATIONS	2-2
3.0 FIELD ACTIVITIES	3-1
3.1 AOC 43G, AREA 2 - UST REMOVAL ACTIONS	3-1
3.1.1 Removal Activities	3-1
3.2 AOC 43G, AREA 3 - SAND AND GAS TRAP REMOVAL ACTION	3-2
3.2.1 Removal Activities	3-2
3.2.2 Field Screening Activities	3-2
3.2.3 Confirmatory Laboratory Analyses	3-7
3.2.4 Stockpiled Soil Characterization	3-10
3.3 FUEL OIL UST REMOVAL ACTION	3-10
3.3.1 Removal Activities	3-10
3.3.2 Field Screening Activities	3-11
3.3.3 Confirmatory Laboratory Analyses	3-13
3.3.4 Stockpiled Soil Characterization	3-14
4.0 CONCLUSIONS	4-1
REFERENCES	
FIGURES	

TABLE OF CONTENTS (Continued)

	Title	Page
ATTACHMENT A -	AOC 43G FORM #FP292 UST REMOVAL PERMITS AND FUEL OIL UST DISPOSAL RECEIPT	A-1
ATTACHMENT B -	AOC 43G HAZARDOUS WASTE MANIFESTS	B-1
ATTACHMENT C -	AOC 43G COMPACTION TESTING RESULTS PROFESSIONAL SERVICE INDUSTRIES, INC.	C-1
ATTACHMENT D -	AOC 43G SAND AND GAS TRAP - AREA 3 LIQUID WASTE CHARACTERIZATION ROY F. WESTON, INC. Sample collected June 10, 1996	D-1
ATTACHMENT E -	AOC 43G SAND AND GAS TRAP - AREA 3 FIELD SCREEN LABORATORY ANALYTICAL ROY F. WESTON, INC. Samples collected July 1, 1996	E-1
ATTACHMENT F -	AOC 43G SAND AND GAS TRAP - AREA 3 CONFIRMATORY LABORATORY ANALYTICAL ROY F. WESTON, INC. Samples collected June 28, 1996	F-1
ATTACHMENT G -	AOC 43G SAND AND GAS TRAP - AREA 3 CONFIRMATORY LABORATORY ANALYTICAL ROY F. WESTON, INC. Samples collected July 15 and September 3, 1996	G-1
ATTACHMENT H -	AOC 43G CERTIFICATION OF CLEAN FILL BUILDING 202 STOCKPILED SOIL	H-1

TABLE OF CONTENTS (Concluded)

	Title	Page
ATTACHMENT I -	AOC 43G SAND AND GAS TRAP - AREA 3 STOCKPILED SOIL WASTE CHARACTERIZATION ROY F. WESTON, INC. Samples collected July 10, 1996	I-1
ATTACHMENT J -	AOC 43G FUEL OIL UST - AREA 3 CONFIRMATORY LABORATORY ANALYTICAL ROY F. WESTON, INC. Samples collected August 21, 1996	J-1
ATTACHMENT K -	AOC 43G FUEL OIL UST - AREA 3 STOCKPILED SOIL WASTE CHARACTERIZATION ROY F. WESTON, INC. Samples collected September 25, 1996	K-1

LIST OF FIGURES

Figure No.	Title
2-1	Location Map
2-2	Site Sketch
3-1	Field Screen Sample Locations - Sand and Gas Trap
3-2	EPH/VPH Field Screen Sample Locations - Sand and Gas Trap
3-3	Confirmatory Sample Locations - Sand and Gas Trap
3-4	Field Screen Sample Locations - Fuel Oil UST
3-5	Confirmatory Sample Locations - Fuel Oil UST

LIST OF TABLES

Table No.	Title
3-1	Summary of Headspace Field Screen Results - Sand and Gas Trap Grab Soil Samples Collected by WESTON on June 12 & 13, 1996
3-2	Summary of TPH Field Screen Results - Sand and Gas Trap Composite Soil Samples Collected by WESTON on June 14, 1996
3-3	Summary of TPH Field Screen Results - Sand and Gas Trap Grab Soil Samples Collected by WESTON on June 24, 1996
3-4	Summary of TPH Field Screen Results - Beneath Building 2008 Foundation Composite Soil Samples Collected by WESTON on June 25, 1996
3-5	Summary of Modified EPH/VPH Field Screen Results - Sand and Gas Trap Composite Soil Samples Collected by WESTON on July 1, 1996
3-6	Summary of Analytical Results - Sand and Gas Trap Composite Soil Sample Collected by WESTON on June 28, 1996
3-7	Sample Summary - Sand and Gas Trap Composite Soil Samples Collected by WESTON on July 10, 1996
3-8	Summary of Analytical Results - Sand and Gas Trap Composite Soil Samples Collected by WESTON on July 10, 1996
3-9	Summary of Headspace and TPH Field Screen Results - Fuel Oil UST Grab Soil Samples Collected by WESTON on August 16, 1996
3-10	Summary of Headspace and TPH Field Screen Results - Fuel Oil UST Composite Soil Samples Collected by WESTON on August 21, 1996
3-11	Sample Summary - Fuel Oil UST Composite Soil Samples Collected by WESTON on August 21, 1996
3-12	Summary of Analytical Results - Fuel Oil UST Composite Soil Samples Collected by WESTON on August 21, 1996

EXECUTIVE SUMMARY

The purpose of this report is to document a time-critical removal action at Area of Contamination (AOC) 43G, Areas 2 and 3, Devens, Massachusetts. Area 2 is the location of three former gasoline underground storage tanks (USTs). Area 3 is the former location of a 500-gallon waste oil UST and a sand and gas trap. A 1,000-gallon fuel oil UST was identified adjacent to Area 3 at the time of the removal action, and for the purpose of this report, is included in Area 3.

On December 21, 1989, Devens (formerly Fort Devens) was placed on the National Priorities List pursuant to the Comprehensive Environmental Response Compensation and Liability Act of 1980, as amended. Devens, is located within the towns of Ayer, Harvard, Lancaster, and Shirley, Massachusetts and consists of approximately 9,280 acres. Fort Devens was used for a variety of U.S. military training missions from 1917 until 1996. In 1991, the installation was selected for cessation of operations and closure under Public Law 101-50, the Base Realignment and Closure Act of 1990.

AOC 43G is located on Queenstown Road in the central portion of the Main Post of Devens and is divided into three areas. AOC 43G was initially referred to as Study Area (SA) 43G and consisted of Area 1, one of eighteen historic gas station sites at Fort Devens. The station was used during World War II as a motor vehicle pool to support military operations. These operations were discontinued in the late 1940s/early 1950s. The historic gas station consisted of a pump island and a small pumphouse. Reportedly, the gas station had one 5,000-gallon UST located between the pumphouse and the pump island. No documentation has been found that would indicate that this UST was removed. However, the tank has not as yet been located using geophysical techniques.

At present, AOC 43G consists of a former Army Air Force Exchange Services (AAFES) gas station building (Building 2008), currently being used by the Devens Department of Public Works as a storage area and sign shop. Prior to the time-critical removal action at AOC 43G performed by WESTON, Area 2 consisted of two 10,000-gallon and one 15,000-gallon fiberglass double wall USTs and associated appurtenances, located on the northern side Building 2008. Area 3 at AOC 43G consisted of a sand and gas trap located on the northern side of Building 2008. A 1,000-gallon No. 2 fuel oil UST, which serviced Building 2008, was located adjacent to Area 3, at the rear of the building.

In October 1990, five gasoline USTs were removed from the north side of the former AAFES gas station (currently Area 2). Laboratory analysis of soil samples from the excavation indicated elevated total petroleum hydrocarbons (TPH) concentrations. Follow-up sampling indicated elevated volatile organic compounds (VOC) concentrations in soil beneath the location of the former USTs and in groundwater at downgradient locations. The USTs were replaced with the two 10,000-gallon and one 15,000-gallon fiberglass gasoline USTs in 1991.

In May 1992, the 500-gallon waste oil UST was removed from behind Building 2008 (currently Area 3). Laboratory analyses of soil samples from the UST excavation indicated elevated VOC and TPH concentrations.

Between 1992 and 1995, various soil and groundwater subsurface investigations have been conducted at AOC 43G which include a *Site Investigation (SI), Supplemental Site Investigation (SSI)* and a *Remedial Investigation (RI)*. Analytes detected during these investigations in soil samples collected from the UST areas at AOC 43G were consistent with the historical use of this area as a gas station. Benzene, toluene, ethylbenzene, and xylenes (BTEX) and TPH concentrations detected in Areas 2 and 3 indicated that residual soil contamination still remained in the UST areas from previous spills and releases associated with the former waste oil and gasoline USTs. The distribution of groundwater contamination indicated that the groundwater contamination source was the apparent residual soil contamination adjacent to, and potentially below the existing gasoline USTs in Area 2, and potentially the residual soil contamination in Area 3.

A human health risk assessment was conducted, based on results of field testing and analytical results compiled during the *SI*, *SSI*, and *RI*. Because the soil contamination in Area 1 was present at levels below human-health-risk-based standards, no further action was recommended for Area 1. In addition, due to the depth of soil contamination in Areas 2 and 3, the assessment found no unacceptable human health risks from soil contamination in these areas. However, the assessment did conclude that residual soil contamination in Areas 2 and 3 was the source of downgradient groundwater contamination. Risks evaluated for exposure to groundwater indicated both carcinogenic and non-carcinogenic risks in excess of the United States Environmental Protection Agency (USEPA) acceptable risk values.

During May and June 1996, Roy F. Weston, Inc. (WESTON®) performed a time-critical removal action of the two 10,000-gallon and one 15,000-gallon USTs at Area 2. Operations included attainment of appropriate permits; removal of associated pumps and in-place decommissioning of associated pipes with cellular concrete; oversight of tank cleaning and removal activities; and headspace sampling of excavated material in order to segregate potentially contaminated soils.

In June and July 1996, WESTON performed a time-critical removal action of the sand and gas trap at Area 3. The sand and gas trap was located adjacent to the southeast corner of Building 2008, and was believed to collect fluids from floor drains within the building, trapping floating product for manual removal and discharging water below the ground surface. Operations included the pumping and off-site disposal of existing liquids within the sand and gas trap; excavation of approximately 150 cubic yards of associated contaminated soil; headspace and field analytical screening of material removed from the excavation in order to segregate suspect contaminated soil; and collection of soil samples from the floor and walls of the excavation for confirmatory laboratory analyses.

One soil sample was submitted for VOCs, semi-volatile organic compounds (SVOCs) and target analyte list metals. Nine samples were submitted for extractable petroleum hydrocarbons (EPH) and volatile petroleum hydrocarbons (VPH) analyses with VOC and polyaromatic hydrocarbons (PAH) breakdowns. Analytical results were compared to the Massachusetts Contingency Plan (MCP) Method 1 S-2/GW-1 regulatory action levels and USEPA recommended Industrial Soil Exposure Risk-Based Concentrations (RBCs). No concentrations were identified to exceed the applicable regulatory standards.

In August 1996, WESTON performed a removal action of the 1,000-gallon fuel oil UST and associated contaminated soils at Area 3. Operations included attainment of appropriate permits; oversight of tank cleaning and removal activities; field analytical screening; collection of soil samples for confirmatory laboratory analyses; and the excavation of approximately seven cubic yards of associated contaminated soils.

Confirmatory composite soil samples were collected from the floor and walls of the UST excavation and submitted for laboratory analyses for VOCs, SVOCs and diesel range organics (DRO)/gasoline range organics (GRO). No VOC or SVOC concentrations were detected above laboratory reporting limits. Concentrations of DRO were detected above laboratory reporting limits in all soil sample locations and a GRO concentration above reporting limits was detected in one sample location. However, these concentrations were below the applicable MCP Method 1 S-2/GW-1 action level of 2,500 parts per million. There are no USEPA RBCs available for TPH.

The time-critical removal action was consistent with the National Contingency Plan, and site conditions met the criteria (40 CFR 300.415) for removal action. Previous subsurface investigations at the former gas station site document contamination in both overburden and groundwater. The removal action reduced potential continuing sources of groundwater contamination at Areas 2 and 3. Groundwater evaluation and monitoring are on-going as part of the *Record of Decision* for AOC 43G.

1.0 PURPOSE

The purpose of this *Removal Action Report* is to document a time-critical removal action at Area of Contamination (AOC) 43G, Areas 2 and 3, Devens, Massachusetts, in accordance with the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) of 1980, as amended. Area 2 is the location of former gasoline underground storage tanks (USTs). Area 3 is the former location of a 500-gallon waste oil UST, a sand and gas trap, and a 1,000-gallon fuel oil UST.

The time-critical removal action was performed by Roy F. Weston, Inc. (WESTON®), for the U.S. Army Corps of Engineers, New England Division (CENED), between May and September 1996. Activities performed by WESTON were conducted based on the findings of previous studies at the site, as documented in the ABB Environmental Services, Inc. (ABB) *Final Remedial Investigation Report for Area of Contamination 43G*, dated February 1996. This action involved the removal of three gasoline USTs at Area 2, excavation and removal of the Area 3 sand and gas trap; approximately 150 cubic yards of associated total petroleum hydrocarbon (TPH) contaminated soils; and removal of the 1,000-gallon fuel oil UST.

2.0 BACKGROUND AND PHYSICAL SETTING

2.1 SITE DESCRIPTION AND HISTORY

On December 21, 1989, Devens (formerly Fort Devens) was placed on the National Priorities List (NPL) pursuant to CERCLA as amended. Devens, is located within the towns of Ayer, Harvard, Lancaster, and Shirley, Massachusetts and consists of approximately 9,280 acres (Figure 2-1). Fort Devens was used for a variety of U.S. military training missions from 1917 until 1996. In 1991, the installation was selected for cessation of operations and closure under Public Law 101-50, the Base Realignment and Closure (BRAC) Act of 1990.

AOC 43G is located on Queenstown Road in the central portion of the Main Post of Devens and is divided into three areas (Figure 2-2). AOC 43G was initially referred to as Study Area (SA) 43G and consisted of Area 1, one of eighteen historic gas station sites at Fort Devens. The station was used during World War II as a motor vehicle pool to support military operations. These operations were discontinued in the late 1940s/early 1950s. The historic gas station consisted of a pump island and a small pumphouse. Reportedly, the gas station had one 5,000-gallon UST located between the pumphouse and the pump island. No documentation has been found that would indicate that this UST was removed. However, the tank has not as yet been located using geophysical techniques.

At present, AOC 43G consists of a former Army Air Force Exchange Services (AAFES) gas station building (Building 2008), currently being used by the Devens Department of Public Works as a storage area and sign shop. Prior to the time-critical removal action at AOC 43G performed by WESTON, Area 2 consisted of two 10,000-gallon and one 15,000-gallon Xerxes brand fiberglass double wall USTs and associated appurtenances, located on the eastern side of Building 2008. Area 3 at AOC 43G consisted of a sand and gas trap located on the northern side of Building 2008. A 1,000-gallon No. 2 fuel oil UST, which formerly serviced Building 2008, was located adjacent to Area 3, at the rear of the building. For the purpose of this document, the fuel oil UST is included in Area 3 (Figure 2-2).

2.2 REGIONAL AND LOCAL GEOLOGY

Devens is near the western boundary of the Seaboard Lowland Section of the New England Maritime Physiographic province. It is adjacent to the Worcester County Plateau of the Central Uplands province, and part of the installation lies within the province. The land surface is almost completely covered with unconsolidated glacial outwash deposits, resulting in few bedrock outcrops. The surficial deposits are underlain by a highly complex assemblage of intensely folded and faulted metsedimentary rocks and occasional igneous intrusions. The geomorphology of the region is dominated by glacial features such as outwash plains, kames, kames terraces, drumlins, and eskers.

The geology at AOC 43G consists of a sand to sandy gravel layer overlying till which in turn overlies phyllite bedrock. The sand and gravel layer ranges from 7 to 17 feet in thickness and is comprised primarily of poorly to well-graded fine to course sand with sub-rounded sub-angular

gravel. Occasional fine sand lenses may be encountered throughout the area approximately 0.1 feet thick. The till is comprised of well-graded silty sand sandy silt, and silt with highly weathered bedrock surface. The gravel content was found to increase generally when approaching the highly weathered bedrock surface. The till layer ranges in thickness from 0.5 to 16 feet. The bedrock beneath AOC 43G is moderately to highly weathered fine-grained phyllite that slopes to the southeast mimicking the topography of the area. The depth to bedrock varies from 14 to 34 feet below ground surface (bgs).

2.3 REGIONAL AND LOCAL HYDROGEOLOGY

Groundwater at Devens occurs largely in the permeable glacial-deltaic outwash deposits of sand, gravel, and boulders. Well yields within these sediments are dependent upon hydraulic characteristics of the aquifer and can range from 2 to over 300 gallons per minute (gpm). Small amounts of groundwater can be obtained from fractured bedrock with yields ranging from 2 to 10 gpm. Minor amounts of groundwater may be found in thin, permeable glacial lenses elsewhere on the installation. The primary hydrogeologic feature at Devens is the Nashua River, which flows through the installation in a south to north direction with an average discharge rate of 55 cubic feet per second (ft^3/s). In addition to the Nashua River, numerous brooks that are associated with attendant wetlands dissect the terrain. There are also several kettle ponds and one kettle lake located within the installation.

The surface water drainage at AOC 43G is primarily controlled by a combination of topography and pavement. Runoff is managed by a storm water collection system. The outfall to this system is located 600 feet northeast of the AAFES gas station. There is a drainage ditch that runs southeast, away from the outfall. Some seasonal ponding has been observed southeast of AOC 43G in the outfall's drainage ditch. Approximately 1,000 feet southeast of the AAFES gas station lies a small northeasterly flowing stream. This stream drains the Ammunition Storage Area and flows into Robbins Pond 1,500 feet east of building 2008.

2.4 PREVIOUS REMOVAL ACTIONS

In October 1990, five gasoline USTs were removed from the north side of the former AAFES gas station (currently Area 2). Laboratory analysis of soil samples from the excavation indicated elevated total petroleum hydrocarbons (TPH) concentrations. Follow-up sampling indicated elevated volatile organic compounds (VOC) concentrations in soil beneath the location of the former USTs and in groundwater at downgradient locations. The USTs were replaced with the two 10,000-gallon and one 15,000-gallon fiberglass gasoline USTs in 1991.

In May 1992, the 500-gallon waste oil UST was removed from behind Building 2008 (currently Area 3). Laboratory analyses of soil samples from the UST excavation indicated elevated VOC and TPH concentrations.

2.5 PREVIOUS SITE INVESTIGATIONS

Between 1992 and 1995, various soil and groundwater subsurface investigations have been conducted at AOC 43G which include a *Site Investigation (SI), Supplemental Site Investigation*

(SSI) and a *Remedial Investigation (RI).* Analytes detected during these investigations in soil samples collected from the UST areas at AOC 43G were consistent with the historical use of this area as a gas station. Benzene, toluene, ethylbenzene, and xylenes (BTEX) and TPH concentrations detected in Areas 2 and 3 indicated that residual soil contamination still remained in the UST areas from previous spills and releases associated with the former waste oil and gasoline USTs. The distribution of groundwater contamination indicated that the groundwater contamination source was the apparent residual soil contamination adjacent to, and potentially below the existing gasoline USTs in Area 2, and potentially the residual soil contamination in Area 3.

A human health risk assessment was conducted, based on results of field testing and analytical results compiled during the *SI*, *SSI*, and *RI*. Because the soil contamination in Area 1 was present at levels below human-health-risk-based standards, no further action was recommended for Area 1. In addition, due to the depth of soil contamination in Areas 2 and 3, the assessment found no unacceptable human health risks from soil contamination in these areas. However, the assessment did conclude that residual soil contamination in Areas 2 and 3 was the source of downgradient groundwater contamination. Risks evaluated for exposure to groundwater indicated both carcinogenic and non-carcinogenic risks in excess of the United States Environmental Protection Agency (USEPA) acceptable risk values.

Based on the findings of the previous investigations, including the human health risk assessment, both Areas 2 and 3 were determined to require soil removal actions.

3.0 FIELD ACTIVITIES

3.1 AOC 43G, AREA 2 - UST REMOVAL ACTIONS

3.1.1 Removal Activities

During May and June 1996, WESTON performed a time-critical removal action of two 10,000-gallon and one 15,000-gallon Xerxes brand fiberglass double wall USTs and associated appurtenances at AOC 43G, Area 2 (Figure 2-2). The three USTs were located on the northern side of Building 2008 and were installed in 1991. Operations conducted by WESTON included attainment of appropriate permits (Attachment A); removal of associated pumps and in-place decommissioning of associated pipes with cellular concrete; oversight of tank cleaning and removal of USTs; and headspace sampling of excavated material in order to segregate potentially contaminated soils.

Clean Harbors conducted the UST cleaning activities which included the removal of remaining gasoline product, residual sludge, and rinse water from within the tank prior to its removal from the ground. All material removed by Clean Harbors was transported off-site for proper disposal (Attachment B). In all, approximately 725 gallons of gasoline/rinse water mixture were removed from the USTs. All personal protective equipment used to clean the UST was collected and taken off-site by Clean Harbors on the same day that cleaning activities were conducted.

The fill beneath the 35' x 30' concrete pad consisted of pea stone mixed with sand which was excavated approximately 2 to 5 feet from the sidewalls of each the USTs. Jar headspace field screen readings for VOCs, using a photo-ionization detector (PID), were taken approximately every ten cubic yards of sand and pea stone mixture that were removed from the excavation. No headspace readings were detected above the ambient background concentration of 0 parts per million (ppm). Background was attained using statistical calculations averaged from various points around the site excavation.

Each UST was removed individually and was inspected to expose any cracks or weak areas where product may have been potentially released. The USTs were approximately four years old and appeared to be in good condition with no evidence of a release of product. After the USTs were extracted from the ground, the USTs and excavation area were inspected by Chief Richard Hewitt of the Devens Fire Department in order to determine whether a release from the USTs had occurred. No problems associated with the USTs were noted, and the excavation was approved to be backfilled. The USTs were temporarily staged on-site prior to being transferred to an on-base vehicle storage yard at buildings T-2446 and T-2479 (Yard K) for interim storage.

The limits of the Area 2 excavation was approximately 60' x 60' to a maximum depth of 12 feet bgs. No confirmatory soil sampling was conducted at the Area 2 UST excavation. This decision was based on "clean" headspace field screen results and previous removal of contaminated soil at Area 2, during the 1990 gasoline UST removal, by Nobis Engineering.

All pea stone and sand fill material removed from the Area 2 excavation was re-used to backfill the excavation. The remaining volume was backfilled using fill from an on-site borrow pit. Compaction testing by Professional Service Industries, Inc. was performed during the backfilling of the excavation at one-foot lift intervals. A minimum value of 90% compaction was obtained for each lift (Attachment C). Once the excavation was backfilled, the subject area was graded and paved in accordance with CENED Construction Solicitation and Specifications, Section 02576.

3.2 AOC 43G, AREA 3 - SAND AND GAS TRAP REMOVAL ACTION

3.2.1 Removal Activities

In June and July 1996, WESTON performed a time-critical removal action of the sand and gas trap at AOC 43G, Area 3 (Figure 2-2). The sand and gas trap was located adjacent to the southeast corner of Building 2008, and was believed to collect fluids from floor drains within the building, trapping floating product for manual removal and discharging water below the ground surface. Operations included the pumping and off-site disposal of liquids within the sand and gas trap; excavation of associated contaminated soil; headspace and field analytical screening of material removed from the excavation in order to segregate suspect contaminated soil; collection of soil samples from the floor and walls of the excavation for confirmatory laboratory analyses; and waste characterization laboratory analyses for contaminated soils generated during WESTON removal activities.

Liquid remaining in the sand and gas trap was pumped into ten 55-gallon drums. A composite sample of the liquid was collected and submitted to Katahdin Analytical Services, Inc. (KAS) for laboratory waste characterization analyses for VOCs using USEPA Method 8260; diesel range organics (DRO)/gasoline range organics (GRO) using USEPA Method 8015; pesticides/polychlorinated biphenyls (PCBs) using USEPA Method 8080; ignitability, reactivity, and corrosivity; and RCRA metals. Analytical results allowed the liquid to be disposed as MA01 coded waste (Attachment D). The drummed liquid contents were pumped into a vac-truck unit, by Cyn Environmental Services (CES) for proper disposal, on July 11, 1996. The empty 55-gallon drums were shipped off-site for disposal by CES on September 3, 1996.

3.2.2 On-Site Field Screening Activities

WESTON began the initial excavation of the sand and gas trap on June 6, 1996. Grab headspace samples were collected using a PID at one-foot intervals until contaminated soil was encountered between 5 to 6 feet bgs. The material at this depth consisted of black stained soil with a petroleum odor. A soil sample collected at this depth exhibited a headspace reading of 2,473 ppm. Soil samples collected from the northeast and southwest walls of the excavation, at a depth of 9 feet bgs, yielded headspace readings in excess of 2,000 ppm. Table 3-1 presents the headspace sample locations and depths at which they were obtained.

Table 3-1

Summary of Headspace Field Screen Results
Grab Soil Samples Collected by WESTON on June 12 & 13, 1996

Sample Identification	Sample Location	Depth (feet bgs)	Headspace Results (ppm)
SS-1	southwest corner	1	ND
SS-2	south wall	2	ND
SS-3	north wall	3	ND
SS-4	north wall	4	ND
SS-5	north wall	5	ND
SS-6	north wall	6	2,473
SS-7	bottom	7	415
SS-8	bottom	8	792
SS-9	southwest corner	9	2,788
SS-11	southeast corner	9	4
SS-12	southeast corner	9	39
SS-13	northeast corner	9	2,144
SS-14	northeast corner	9	4
SS-15	northwest corner	9 - 10	5
SS-16	northeast corner	9 - 10	5
SS-17	southeast corner	9 - 10	ND

bgs = below ground surface
ppm = parts per million
ND = not detected above background levels determined using statistical calculations from various air monitoring points around the site.

WESTON continued excavating the sand and gas trap area until limitations imposed by the buildings foundation forced soil removal operations to stop work. The area of the excavation at this time was approximately 55' x 17' to a depth of 10 feet bgs.

On June 14, 1996, in order to delineate the extent of remaining petroleum contamination, WESTON conducted field analytical screening of composite soil samples collected from the walls and floor of the sand and gas trap excavation using a hydrocarbon analyzer test kit. Soil samples (NW-1, NW-2, WW, EW, SW, B-1, and B-2) were composited from varying depths between 6 to 11 feet bgs (Figure 3-1).

Field screen results were compared to the site action level of 250 ppm for TPH as specified in the WESTON *Field Sampling Analysis Plan, Various Sites - Phase II, Fort Devens, Massachusetts (FSAP)*, dated April 1996. TPH was detected at concentrations greater than the site action level in five of the seven samples analyzed. Concentrations greater than 2,000 ppm were detected in samples collected from the northwall (NW-2) and the bottom of the excavation (B-1), indicating that contamination extended to beneath the foundation of Building 2008. However, concerns of compromising the integrity of the foundation prevented further excavation beneath the building.

Table 3-2 presents the June 14, 1996 field screen sampling event, and concentrations at which they were detected.

Table 3-2

Summary of TPH Field Screen Results - Sand and Gas Trap
Composite Soil Samples Collected by WESTON on June 14, 1996

Sample Identification	Sample Location	Depth (feet bgs)	TPH Concentration (ppm)
NW-1	northeast wall	9	731
NW-2	northwest wall	9	>2,000
WW	west wall	9	1,068
EW	east wall	6 - 8	216
SW	southwall	7 - 11	ND
B-1	bottom	10	>2,000
B-2	duplicate of B-1	10	781

bgs = below ground surface
ppm = part per million
ND = not detected above manufacturer's specified detection limit of 25 ppm

Although, the lateral extent of the sand and gas trap excavation had been reached as a result of the building foundation constraints, WESTON continued to explore the vertical extent of contamination by advancing three tests pits (TP-W, TP-C, and TP-E) at the bottom of the excavation (Figure 3-1).

On June 24, 1996, WESTON collected three grab soil samples at test pit locations TP-W and TP-C, at depths of 12, 14, and 16 feet bgs. Only two samples were collected at test pit location TP-E at depths of 12 and 14 feet bgs. All eight soil samples were field screened using a hydrocarbon analyzer test kit and were compared to the site action level of 250 ppm.

Field screen results indicated concentrations ranging between 1,096 ppm to greater than 10,000 ppm. A noticeable decreasing trend in concentrations was observed extending from the west side of the excavation bottom to the eastern portion. Table 3-3 presents the June 24, 1996 field screen sampling event, and concentrations at which they were detected.

Table 3-3

Summary of TPH Field Screen Results - Sand and Gas Trap
Grab Soil Samples Collected by WESTON on June 24, 1996

Sample Identification	Sample Location	Depth (feet bgs)	TPH Concentration (ppm)
W-2	TP-W	12	>10,000
W-4		14	>10,000
W-6		16	>10,000

Table 3-3 (Concluded)

Summary of TPH Field Screen Results - Sand and Gas Trap
Grab Soil Samples Collected by WESTON on June 24, 1996

Sample Identification	Sample Location	Depth (feet bgs)	TPH Concentration (ppm)
C-2	TP-C	12	7,175
C-4		14	3,100
C-6		16	4,776
E-2	TP-E	12	1,096
E-4		14	1,560

bgs = below ground surface
ppm = part per million

On June 25, 1996, WESTON oversaw the advancement of seven GeoProbe® boring locations (GP-1 to GP-7) through the foundation, within the garage bay area, of Building 2008 (Figure 3-1). These borings were performed to delineate the extent of contamination beneath the southeast corner of the Building 2008. Each of the borings were advanced until refusal was encountered at depths ranging between 14 and 17 feet below the floor surface.

WESTON collected a total of 27 composite soil samples from the seven boring locations at two-foot intervals beginning at 8 feet below the floor surface. These soil samples were field screened for TPH using a hydrocarbon analyzer test kit. Eight of the 27 samples exhibited TPH concentrations which exceeded the specified site field screen action level of 250 ppm. The maximum concentration detected was 1,991 ppm in boring location GP-5 at a depth of 10 feet below the floor surface. The maximum depth of contamination, greater than 250 ppm, was encountered in boring location GP-1 at 16 feet below the floor surface. Borings GP-1 and GP-5 were the closest locations to the sand and gas trap excavation indicating that concentrations decreased as distance and depth from the southeast corner of the building increased. Table 3-4 presents the June 25, 1996 GeoProbe sampling event, the depths at which samples were collected, and the respective field screen results.

Table 3-4

Summary of TPH Field Screen Results - Beneath Building 2008 Foundation
Composite Soil Samples Collected by WESTON on June 25, 1996

Depth (feet bfs)	Boring Location TPH Concentration (ppm)						
	GP-1	GP-2	GP-3	GP-4	GP-5	GP-6	GP-7
8	200	66	92	-	32	111	35
10	1,685	ND	71	295	1,991	1,344	1,017
12	526	-	ND	ND	428	165	38
14	-	-	36	ND	-	-	-
16	537	ND	-	ND	31	ND	ND

bfs = below floor surface
ppm = parts per million
ND = not detected above manufacturer's specified detection limit of 25 ppm
- = sample not collected at that specified depth

On July 1, 1996, WESTON collected eight composite soil samples (43G3-A, -B, -C, -D, -E, -F, -G, -X) from the sand and gas trap excavation and submitted them to ABB for extractable petroleum hydrocarbons (EPH)/volatile organic hydrocarbons (VPH) modified field screen analyses (Attachment E). Field screen results yielded combined EPH/VPH concentrations above reporting limits in three of the eight samples. Two of the sample locations had combined EPH/VPH concentrations in excess of the site specific action level of 250 ppm; however, none of the concentrations were above the Massachusetts Contingency Plan (MCP) Method 1 S-1/GW-1 regulatory standard of 500 ppm. Field screen combined EPH/VPH results for the July 1, 1996 sampling event are presented in Table 3-5 and are depicted on Figure 3-2.

Table 3-5

Summary of Modified EPH/VPH Field Screen Results - Sand and Gas Trap Composite Soil Samples Collected by WESTON on July 1, 1996

Sample Identification	Sample Location	Depth (feet bgs)	EPH (ppm)	VPH (ppm)	Total EPH/VPH (ppm)
43G3-A	east wall	7 - 11	< 53	< 6.56	-
43G3-B	southeast sidewall	6 - 10	< 52	< 6.50	-
43G3-C	southwest sidewall	6 - 10	< 52	< 6.44	-
43G3-D	west wall	9 - 12	< 54	< 6.69	-
43G3-E	northwest sidewall	9 - 11	130	190	320
43G3-F	northeast sidewall	9 - 11	63	58	121
43G3-G	bottom - north	10 - 12	< 54	<6.75	-
43G3-X	bottom - south	10 - 12	60	310	370

EPH = extractable petroleum hydrocarbon
VPH = volatile petroleum hydrocarbon
bgs = below ground surface
ppm = parts per million

Based on the July 1, 1996 EPH/VPH field screen results, it was determined that previous field screen results obtained using the hydrocarbon analyzer test kit were factored high. This occurred since contamination at the sand and gas trap was originally assumed to be gasoline that had migrated from the former Area 2 gasoline USTs. Therefore, the test kit instrument sensitivity factor used in analyzing contaminant concentrations was manually biased towards the lighter gasoline range. However, the EPH/VPH analytical method indicates that the contamination is the result of a heavier weighted oil that was most likely residual contamination from the former waste oil UST removed during previous remediation activities. If such an instrument sensitivity factor for a heavier weight oil was used with the hydrocarbon analyzer test kit, lower concentrations would have been achieved.

3.2.3 Confirmatory Laboratory Analyses

On June 28, 1996, WESTON collected one confirmatory soil sample (43G3-B5) from the bottom of the sand and gas trap excavation at approximately 10 feet bgs where June 24, 1996 field screen results indicated the greatest TPH concentrations (Figure 3-3). The sample was submitted to ESS Laboratory (ESS) for VOCs using USEPA Method 8260, SVOCs using USEPA Method 8270, and target analyte list (TAL) metals (Attachment F). The VOC portion of the sample was collected as a grab sample from center of the excavation. The remainder of the sample was a composite collected from three bottom locations.

Confirmatory laboratory results were compared to the MCP Method 1 S-1/GW-1 regulatory action levels in addition to the USEPA recommended Industrial Soil Exposure Risk-Based Concentration (RBC) benchmarks. In all, a total of one SVOC and 15 metals were detected above the ESS method reporting limits. However, none of the concentrations exceed MCP Method 1 S-1/GW-1 action levels, or USEPA recommended RBC benchmarks. Results of the June 28, 1996 sampling event and comparisons to the MCP Method 1 S-1/GW-1 action levels and USEPA recommended RBCs are presented in Table 3-6.

Table 3-6

Summary of Analytical Results - Sand and Gas Trap
Composite Soil Sample Collected by WESTON on June 28, 1996

Compound/Element	43G3-B5 Sample Concentration (ppm)	MCP S-1/GW-1 Standard (ppm)	USEPA Risk-Based Concentration* (ppm)
SVOCs			
Bis(2-ethylhexyl)phthalate	0.542	100	200
INORGANICS			
Aluminum	6,650	-	1.0E+06
Arsenic	19	30	310
Barium	60	1,000	72,000
Calcium	1,130	-	-
Chromium	15	1,000	-
Cobalt	5	-	180,000
Copper	8	-	-
Iron	10,100	-	-
Magnesium	3,420	-	-
Manganese	102	-	5,100
Nickel	15	300	20,000
Potassium	917	-	-
Sodium	116	-	-
Vanadium	12	400	7,200
Zinc	39	2,500	310,000

ppm = parts per million
* = Industrial Soil Exposure values used as reference benchmark concentrations
\- = benchmark concentration not given

On July 10, 1996, WESTON collected nine composite confirmatory soil samples (43G3-A1, -B1, -C1, -D1, -E1, -F1, -F1D, -G1, and -X1) from the walls and floor of the excavation, including a duplicate sample for quality assurance purposes (Figure 3-3). The samples were submitted to Alpha Analytical Laboratories, Inc. for EPH and VPH analyses with VOC and PAH breakdowns (Attachment G). The locations and depths at which soil samples were collected, during the July 10, 1996 sampling round, are presented in Table 3-7.

Table 3-7

Sample Summary - Sand and Gas Trap
Composite Soil Samples Collected by WESTON on July 10, 1996

Sample Identification	Sample Location	Depth (feet bgs)
43G3-A1	east wall	7 - 11
43G3-B1	southeast wall	6 - 10
43G3-C1	southwest wall	6 - 10
43G3-D1	west wall	9 - 12
43G3-E1	northwest wall	9 - 11
43G3-F1	northeast wall	9 - 11
43G3-F1D	duplicate of 43G3-F1	9 - 11
43G3-G1	bottom - north	10 - 12
43G3-X1	bottom - south	10 - 12

bgs = below ground surface

Several BTEX and 1,2,4-trimethylbenzene concentrations were detected above laboratory detection limits in soil samples 43G3-E1, -F1 and -F1D. Naphthalene was reported above the laboratory detection limit in soil sample 43G3-E1 only. All VOC concentrations are below the applicable MCP Method 1 S-1/GW-1 regulatory standards and the USEPA Industrial Soil Exposure RBC benchmarks. Combined EPH/VPH concentrations were detected in all nine soil samples. The highest combined EPH/VPH concentration was in soil sample 43G3-E1, collected from beneath the Building 2008 foundation (Figure 3-3). Combined EPH/VPH was 800 ppm, which exceeded the then applicable MCP Method 1 S-1/GW-1 regulatory action level of 500 ppm. However, this concentration was below the then applicable, less conservative, MCP Method 1 S-2/GW-1 guideline of 2,500 ppm for combined EPH/VPH. No PAHs were reported above the respective laboratory detection limits in any of the sample locations.

Analytical results for the July 10, 1996 sampling event indicated that the vertical extent of contaminated soil at the sand and gas trap excavation had been removed to below the then applicable MCP Method 1 S-1/GW-1 regulatory standards. However, residual petroleum contamination, above the conservative MCP Method 1 S-1/GW-1 guideline, remained beneath the foundation of Building 2008. Results of the July 10, 1996 sampling event and comparisons to the MCP Method 1 S-1/GW-1 regulatory action levels, and USEPA recommended RBCs are presented in Table 3-8.

Table 3-8

Summary of Analytical Results - Sand and Gas Trap
Composite Soil Samples Collected by WESTON on July 10, 1996

Sample Identification	Compound/Element	Sample Concentration (ppm)	MCP S-1/GW-1 Standard (ppm)	USEPA Risk-Based Concentration* (ppm)
43G3-X1	**EPH/VPH**	14.65 ppm	500	-
	VOCs			
	Naphthalene	0.235	4	41,000
43G3-A1	**EPH/VPH**	0.975	500	-
43G3-B1	**EPH/VPH**	0.822	500	-
43G3-C1	**EPH/VPH**	0.635	500	-
43G3-D1	**EPH/VPH**	2.310	500	-
43G3-E1	**EPH/VPH**	**799.9**	500	-
	VOCs			
	Ethylbenzene	0.129	80	100,000
	o-Xylene	0.527	500†	1E+06
	Naphthalene	0.415	4	41,000
	1,2,4-Trimethylbenzene	0.258	-	510
43G3-F1	**EPH/VPH**	4.05	500	-
	VOCs			
	Toluene	0.131	90	200,000
	Ethylbenzene	0.215	80	100,000
	p/m-Xylene	0.143	500†	1E+06
	1,2,4-Trimethylbenzene	0.154	-	510
43G3-F1D	**EPH/VPH**	12.6	500	-
	VOCs			
	Benzene	0.164	10	99
	Toluene	0.143	90	200,000
	p/m-Xylene	0.210	500†	1E+06
	1,2,4-Trimethylbenzene	0.165	-	510

ppm = parts per million
* = Industrial Soil Exposure values used as reference benchmark concentrations
EPH/VPH = extractable petroleum hydrocarbons/volatile petroleum hydrocarbons
VOCs = volatile organic compounds
- = benchmark concentration not given
Bold value = concentration exceeds MCP Method 1 S-1/GW-1 regulatory action level
† = value is for mixed xylene isomers since segregate values were not made available

Once confirmatory analytical results indicated concentrations for accessible soils to be below the applicable regulatory guidelines, the sand and gas trap excavation was backfilled with approximately 125 cubic yards of certified clean fill from the on-base borrow pit. An additional 25 cubic yards of "clean" soil, obtained from excavation activities at Building 202, was also used as backfill material (Attachment H). Compaction testing by Professional Service Industries, Inc. was performed during the backfilling of the excavation at one-foot lift intervals. A minimum

value of 90% compaction was obtained for each lift (Attachment C). Once the excavation was backfilled, the subject area was graded and paved in accordance with CENED Construction Solicitation and Specifications, Section 02576.

3.2.4 Stockpiled Soil Characterization

In all, approximately 150 cubic yards of contaminated soil was removed from the sand and gas trap excavation. On July 15, 1996, three composite soil samples were collected (one sample per 100 cubic yards of contaminated stockpiled soil in addition to a duplicate for quality assurance) and submitted to KAS for TPH using USEPA modified Method 418.1 and a full toxicity characteristic leachate procedure (TCLP) analyte package. On September 3, 1996 three additional composite samples were collected from the same general locations as the three previous samples, and were submitted to KAS for RCRA characterization analyses for ignitability, corrosivity, and reactivity. Analytical results from both sampling events indicate that the contaminated soil generated from the sand and gas trap excavation is acceptable for disposal as landfill cover material (Attachment I). These soils are currently stockpiled at the Soil Storage Facility at Building 202 for eventual disposal and/or treatment with petroleum contaminated soils stockpiled in Cell A of the Soil Storage Facility.

3.3 AOC 43G, AREA 3 - FUEL OIL UST REMOVAL ACTION

3.3.1 Removal Activities

In August 1996, WESTON performed a removal action of the 1,000-gallon steel fuel oil UST and associated contaminated soils at Area 3. Operations conducted by WESTON included attainment of appropriate permits (Attachment A); oversight of tank cleaning and removal activities; field analytical screening; collection of soil samples for confirmatory laboratory analyses; and the excavation of associated contaminated soils.

Cyn Environmental Services (CES) conducted the UST cleaning activities which included the removal of remaining virgin product and residual sludge from within the tank prior to its removal from the ground. All remaining virgin product was transported off-site by a vac-truck unit for reuse. Any remaining residual product and sludge was transported off-site by a separate vac-truck unit for proper disposal (Attachment B). In all, approximately 500 gallons of liquid, including virgin product and residual sludge, were removed from the UST. All personal protective equipment used to clean the UST was collected by CES for proper disposal on the same day that cleaning activities were conducted.

The fill around the UST consisted of sandy soil with mixed asphalt and was excavated approximately two feet from the sidewalls of the tank. The confined area in which the UST was located limited the lateral extent of the excavation (Figure 2-2). Jar headspace field screen readings for VOCs were taken approximately for every ten cubic yards of soil that were removed from the excavation using a PID. None of the headspace readings indicated concentrations above ambient background levels which were attained using statistical calculations averaged from various air monitoring points at the site. All clean soil excavated from the site was stockpiled on-site, in a vacant lot located southeast of Building 2008. Prior to the extraction of the UST from the ground,

both the top and sidewalls of the UST, and the stockpiled soils, were inspected by Capt. Loomis of the Devens Fire Department in order to determine whether a release from the UST had occurred. No problems associated with the UST were noted and Captain Loomis authorized the removal of the tank.

Once the UST was removed from the ground, it was knocked several times around its circumference with a sledge-hammer in order to remove any loose scaling, and to expose any cracks or weak areas where product may have been released. The UST appeared to be heavily rusted; however, the integrity of the tank appeared intact with no evidence of a release of product.

The UST was removed from the site on August 20, 1996 by AMSCO Trucking, Inc. and was disposed at John C. Tombarello and Sons, Inc. in Lawrence, Massachusetts (Attachment A).

3.3.2 On-Site Field Screening Activities

Following the removal of the UST from the ground, WESTON collected six composite field screen samples from the excavation. The six composite soil samples [N-1, S-1, E-1, W-1, B-1, and B-1(D)] were collected from the walls and bottom of the excavation, and were field screened for TPH using a hydrocarbon analyzer test kit, and for VOCs using a PID (Figure 3-4). Field screen results for TPH were compared to the site action level of 250 ppm as specified in the WESTON *FSAP*. All headspace concentrations were compared to ambient background readings as previously determined. None of the soil samples exhibited headspace readings above ambient background concentrations. TPH concentrations were detected in all six soil samples ranging from 87 to 817 ppm. Four of the concentrations exceeded the specified field screen action level of 250 ppm. The highest concentration detected (817 ppm) was collected along the northwall of the excavation, adjacent to Building 2008. This sample (N-1) was collected at a depth between 3 to 5 feet bgs. Table 3-8 presents the sample locations, depths at which they were collected, and headspace and field screening results.

Table 3-9

Summary of Headspace and TPH Field Screen Results - Fuel Oil UST
Composite Soil Samples Collected by WESTON on August 16, 1996

Sample Identification	Sample Location	Depth (feet bgs)	PID Headspace Results (ppm)	TPH Field Screen Results (ppm)
N-1	north wall	3-5	ND	817
S-1	south wall	3-5	ND	423
E-1	east wall	3-5	ND	224
W-1	west wall	3-5	ND	87
B-1	bottom	7	ND	590
B-1(D)	bottom	7	ND	763

bgs = below ground surface
ppm = parts per million
(D) = duplicate

The high TPH concentrations were assumed to be attributed to the presence of mixed asphalt material observed in the fill around the former UST location. Per 310 CMR 40.0317, release of oil and/or hazardous materials related to coals and asphalt are exempt from MCP notification requirements; therefore, the lateral limits of the excavation were not extended. However, in order to confirm that TPH contamination did not increase with depth, WESTON excavated an additional foot from the bottom of the excavation where an asphalt layer was encountered at 8 feet bgs. This layer was noted at the same depth at which a similar layer was encountered during sand and gas trap excavation activities. The asphalt layer was assumed to have been associated with the previous motor pool which existed at the site in the late 1940s/early 1950s. The presence of the layer at this depth confirms that 43G consisted of filled land and that the original site conditions have been altered considerably since the initial use of the site as a motor pool.

On August 21, 1996, WESTON collected five additional composite soil samples (N-2, S-2, E-2, W-2, and B-2) from the sidewalls and floor of the UST excavation. The samples were screened for headspace VOCs using a PID, and for TPH using the hydrocarbon analyzer test kit. Precautions were taken not to collect any of the mixed asphalt material observed on the sidewalls during the initial field screen sampling round.

None of the soil samples exhibited headspace readings above ambient background concentrations. Field screen results for TPH ranged in concentrations from 59 ppm along the west wall, at a depth of approximately 5 to 7 feet bgs, to 189 ppm at the bottom of the excavation at 8 feet bgs. These concentrations are below the specified site field screen action level of 250 ppm for TPH indicating that contaminated soil at the UST excavation did not increase with depth. Table 3-10 presents the sample locations, depths at which they were collected, and headspace and field screening results.

Table 3-10

Summary of Headspace and TPH Field Screen Results - Fuel Oil UST
Composite Soil Samples Collected by WESTON on August 21, 1996

Sample Identification	Sample Location	Depth (feet bgs)	PID Headspace Results (ppm)	TPH Field Screen Results (ppm)
N-2	north wall	5-7	ND	101
S-2	south wall	5-7	ND	119
E-2	east wall	5-7	ND	157
W-2	west wall	5-7	ND	59
B-2	bottom	8	ND	189

bgs = below ground surface
ppm = parts per million

3.3.3 Confirmatory Laboratory Analyses

On August 21, 1996, WESTON collected six composite confirmatory soils samples (43G-01 to 43G-06), including a duplicate sample for quality assurance purposes, from the floor and walls of the UST excavation (Figure 3-5). The samples were submitted to KAS for VOCs using USEPA Method 8260, SVOCs using USEPA Method 8270, and DRO/GRO analyses using USEPA Method 8015 (Attachment J). The locations and depths at which soil samples were collected during the August 21, 1996 sampling round are presented in Table 3-11.

Table 3-11

Sample Summary - Fuel Oil UST
Composite Soil Samples Collected by WESTON on August 21, 1996

Sample Identification	Sample Location	Depth (feet bgs)
43G-01	east wall	5-7
43G-02	west wall	5-7
43G-03	south wall	5-7
43G-04	north wall	5-7
43G-05	bottom	8
43G-06	duplicate of 43G-05	8

bgs = below ground surface

Laboratory analytical results were compared to the applicable MCP Method 1 S-1/GW-1 regulatory standards and USEPA recommended industrial soil exposure RBCs. Results did not detect any VOC or SVOC concentrations to exceed laboratory practical quantitation limits (PQLs) which are below the regulatory levels. DRO concentrations were detected above the laboratory PQL in all six soil samples, and a GRO concentration was detected above the applicable PQL in sample 43G-05. All total DRO/GRO concentrations are below the MCP Method 1 S-1/GW-1 regulatory standard of 500 ppm for TPH. Results of the August 21, 1996 sampling event are presented in Table 3-12.

Table 3-12

Summary of Analytical Results - Fuel Oil UST
Composite Soil Samples Collected by WESTON on August 21, 1996

Sample Identification	DRO Concentration (ppm)	GRO Concentration (ppm)	Total DRO/GRO Concentration (ppm)
43G-01	9.8	<2.5	9.8
43G-02	25	<2.5	25
43G-03	28	<2.5	28
43G-04	39	<2.5	39

Table 3-12 (Concluded)

Summary of Analytical Results - Fuel Oil UST
Composite Soil Samples Collected by WESTON on August 21, 1996

Sample Identification	DRO Concentration (ppm)	GRO Concentration (ppm)	Total DRO/GRO Concentration (ppm)
43G-05	27	13	40
43G-06	39	<2.5	39

DRO = Diesel Range Organics
GRO = Gasoline Range Organics
ppm = parts per million

3.3.4 Stockpiled Soil Characterization

In all, approximately seven cubic yards of suspect TPH contaminated soil was removed from the 1,000-gallon No. 2 fuel oil UST excavation. On September 25, 1996, one composite soil sample was collected and was submitted to KAS for TPH using USEPA Method 418.2 and a full TCLP. Analytical results from the sampling event indicate that the contaminated soil generated from the UST excavation is acceptable for disposal as landfill cover material (Attachment K). These soils were combined with the contaminated soil generated from the sand and gas trap excavation, and are currently stockpiled at the Soil Storage Facility at Building 202 for eventual disposal and/or treatment with petroleum contaminated soils currently stockpiled in Cell A of the Soil Storage Facility.

4.0 CONCLUSIONS

During May and June 1996, WESTON performed a time-critical removal action of the two 10,000-gallon and one 15,000-gallon USTs at Area 2. Operations included attainment of appropriate permits; removal of associated pumps and in-place decommissioning of associated pipes with cellular concrete; oversight of tank cleaning and removal activities; and headspace sampling of excavated material in order to segregate potentially contaminated soils.

In June and July 1996, WESTON performed a time-critical removal action of the sand and gas trap at Area 3. The sand and gas trap was located adjacent to the southeast corner of Building 2008, and was believed to collect fluids from floor drains within the building, trapping floating product for manual removal and discharging water below the ground surface. Operations included the pumping and off-site disposal of existing liquids within the sand and gas trap; excavation of approximately 150 cubic yards of associated contaminated soil; headspace and field analytical screening of material removed from the excavation in order to segregate suspect contaminated soil; and collection of soil samples from the floor and walls of the excavation for confirmatory laboratory analyses.

One soil sample was submitted for VOCs, SVOCs and target analyte list metals. Nine samples were submitted for EPH/VPH analyses with VOC and PAH breakdowns. Analytical results were compared to the MCP Method 1 S-2/GW-1 regulatory action levels and USEPA recommended Industrial Soil Exposure RBCs. No concentrations were identified to exceed the applicable regulatory standards.

In August 1996, WESTON performed a removal action of the 1,000-gallon fuel oil UST and associated contaminated soils at Area 3. Operations included attainment of appropriate permits; oversight of tank cleaning and removal activities; field analytical screening; collection of soil samples for confirmatory laboratory analyses; and the excavation of approximately seven cubic yards of associated contaminated soils.

Confirmatory composite soil samples were collected from the floor and walls of the UST excavation and submitted for laboratory analyses for VOCs, SVOCs and DRO/GRO. No VOC or SVOC concentrations were detected above laboratory reporting limits. Concentrations of DRO were detected above laboratory reporting limits in all soil sample locations and a GRO concentration above reporting limits was detected in one sample location. However, these concentrations were below the applicable MCP Method 1 S-2/GW-1 action level of 2,500 ppm. There are no USEPA RBCs available for TPH.

The time-critical removal action was consistent with the National Contingency Plan, and site conditions met the criteria (40 CFR 300.415) for removal action. Previous subsurface investigations at the former gas station site document contamination in both overburden and groundwater. The removal action reduced potential continuing sources of groundwater contamination at Areas 2 and 3. Groundwater evaluation and monitoring are on-going as part of the *Record of Decision* for AOC 43G.

REFERENCES

ABB (ABB Environmental Services, Inc.). 1996. *Final Remedial Investigation Report, Area of Contamination (AOC) 43G.* February.

WESTON (Roy F. Weston, Inc.). 1996. *Field Sampling and Analysis Plan, Various Sites - Phase II, Fort Devens, Massachusetts.* April.

USAEC (United States Army Environmental Center). 1996. *Draft Feasibility Study Report, Area of Contamination (AOC) 43G.* February.

Johns, R. H. 1953. *Surficial Geology of the Ayer Quadrangle, Massachusetts*; Scale 1:31, 680; U.S. Geological Survey.

Koteff, C. 1966. *Surficial Geologic Map of the Clinton Quadrangle, Worcester County, Massachusetts*; U.S. Geologic Survey Map GQ-567.

ESS (Environmental Science Services, Inc.). 1996. *Certificate of Analysis.* July 3.

AAL (Alpha Analytical Laboratories, Inc.). 1996. *Certificate of Analysis.* July 17.

KAS (Katahdin Analytical Services, Inc.). 1996. *Report of Analysis.* July 1.

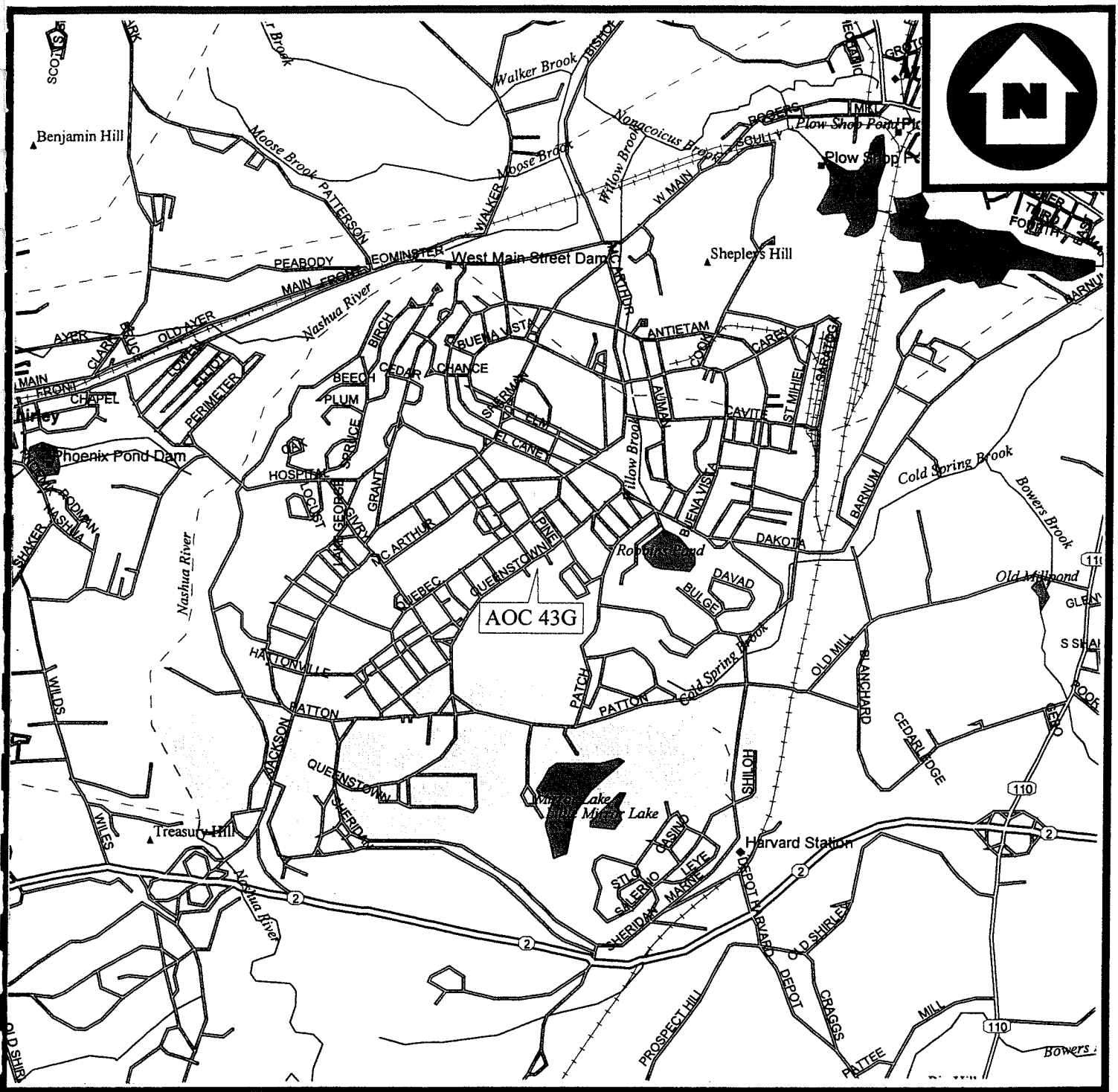
KAS (Katahdin Analytical Services, Inc.). 1996. *Report of Analysis.* July 23.

KAS (Katahdin Analytical Services, Inc.). 1996. *Report of Analysis.* September 11.

MADEP (Massachusetts Department of Environmental Protection, Bureau of Waste Site Cleanup). 1996. *The Massachusetts Contingency Plan, 310 CMR 40.0000.* Revised September.

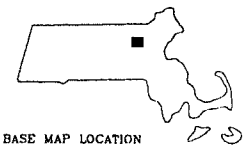
USEPA (United States Environmental Protection Agency Region III). 1994. *Risk-Based Concentration Table, Second Quarter.*

FIGURES



1 1/2 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET



LOCATION MAP

AOC 43G – HISTORIC GAS STATION G (AREA 1)
AAFES GAS STATION (AREAS 2 & 3)
DEVENS, MASSACHUSETTS

ROY F. WESTON, INC.
WESTON
MANAGERS DESIGNERS/CONSULTANTS

FIGURE 2-1

QUEENSTOWN ROAD

FEINBERG ROAD

COVERED GASOLINE PUMP ISLANDS

BIT. CONC.

CONCRETE RETAINING WALL

AREA 2

FORMER CONC. PAD (35'x30') OVER 3 EXISTING FIBERGLASS USTs (TO BE REMOVED)

2 FORMER 10000 GAL USTs

3 FORMER 9000 GAL USTs

AREA 3

LOCATION OF FORMER WASTE OIL UST

FORMER ABOVE GROUND WASTE OIL STORAGE TANK

APPROX. LIMITS OF CONTAMINATION

WOODEN PLATFORM

AAFES GAS STATION 2008

2009

AREA 1

HISTORIC GAS STATION G

FORMER HEATING OIL UST (INCLUDED IN AREA 3)

WOODED AREA

WOODED AREA

CAR WASH 2017

310

305

300

SOURCE:

ABB ENVIRONMENTAL SERVICES, INC.
REMEDIAL INVESTIGATION REPORT, FEB. 1996

30' 0 30'

1"=30'

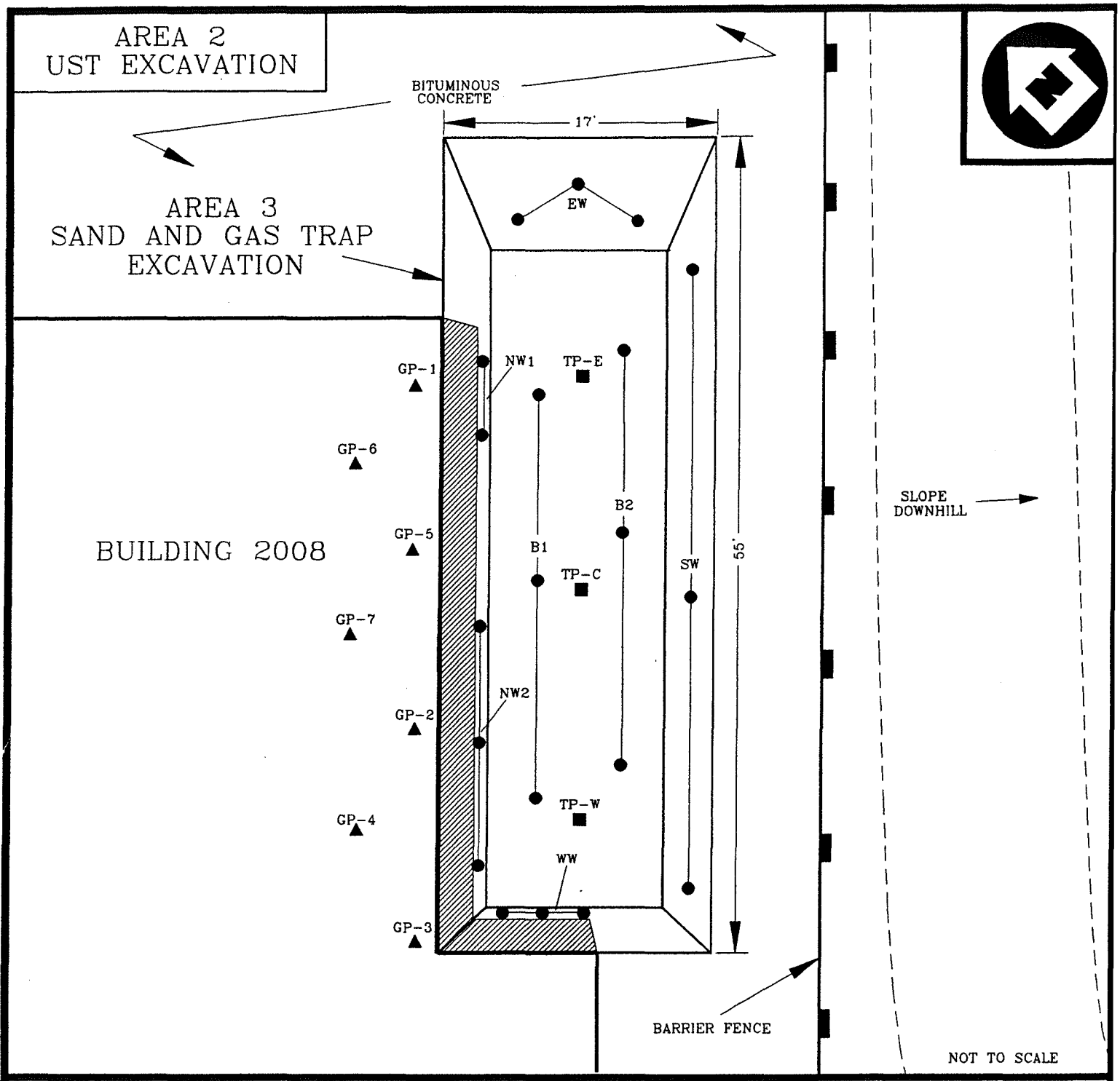
SITE SKETCH

HISTORIC GAS STATION (AREA 1)
AAFES GAS STATION (AREAS 2 & 3)
AOC 43G
DEVENS, MASSACHUSETTS

ROY F. WESTON, INC.
WESTON
MANAGERS DESIGNERS/CONSULTANTS

DRAWN T.A.C.	DATE MAR 96	DES. ENG.	DATE	W. O. NO. 03886-118-004
CHECKED P.G.H.	DATE MAR 96	APPROVED	DATE	DWG. NO. FIGURE 2-2

FILE NAME: DVN: C:\03886118\004\0209\43G-2-2.DWG



LEGEND

- GROUND SURFACE ELEVATION CONTOUR (5 FT INTERVAL)
- WESTON COMPOSITE FIELD SCREEN SAMPLE LOCATIONS COLLECTED JUNE 14, 1996
- BUILDING FOUNDATION
- WESTON GRAB FIELD SCREEN TEST PIT SAMPLE LOCATIONS COLLECTED ON JUNE 24, 1996
- WESTON COMPOSITE FIELD SCREEN GEOPROBE SAMPLE LOCATIONS COLLECTED ON JUNE 25, 1996

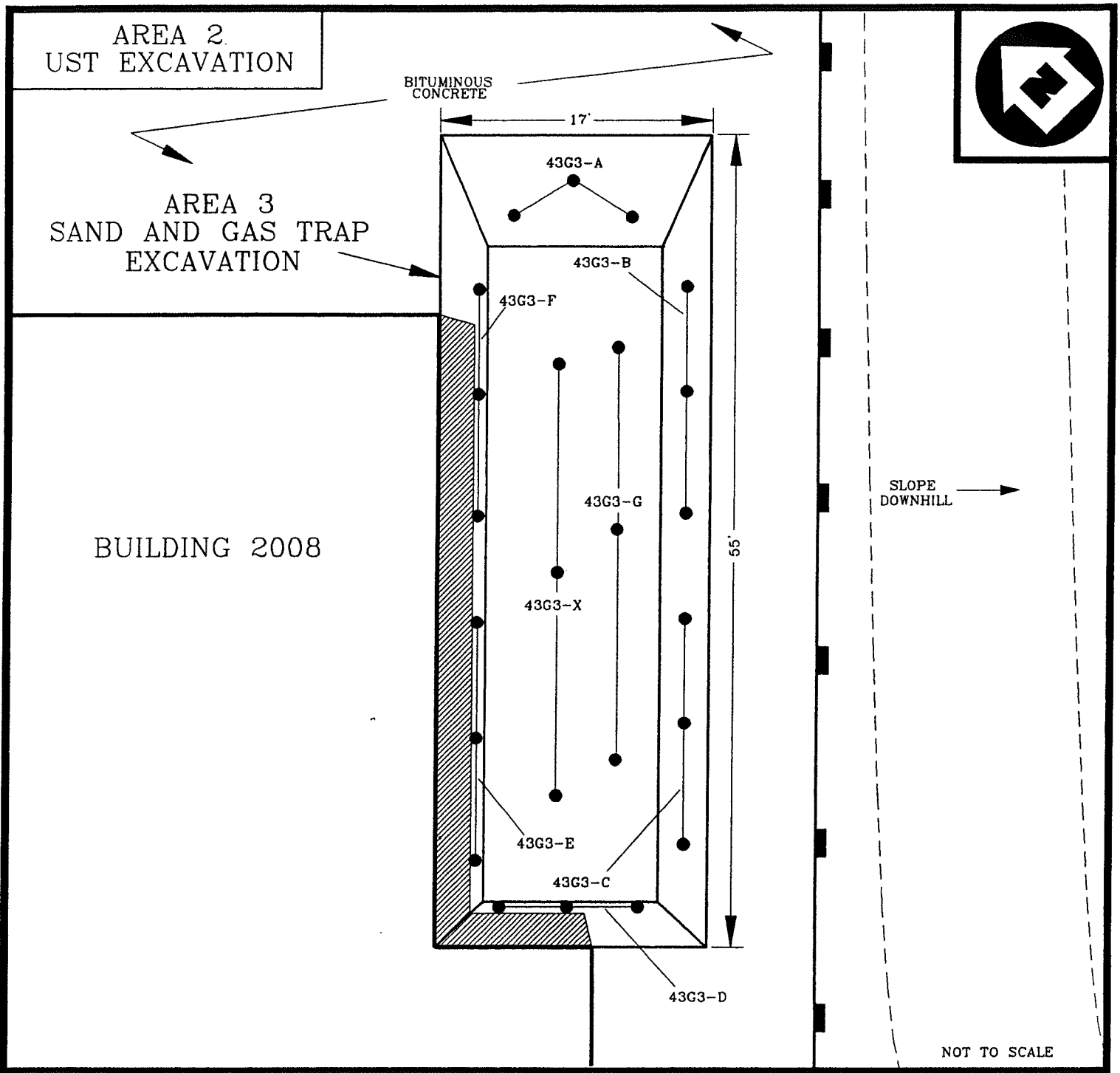
FIELD SCREEN SAMPLE LOCATIONS

SAND AND GAS TRAP (AREA 3)
AOC 43G
DEVENS, MASSACHUSETTS

ROY F. WESTON, INC.
WESTON MANAGERS DESIGNERS/CONSULTANTS

FIGURE 3-1

FILE NAME: DWN: C:\038861\0\004\0209\43G-3-1.DWG



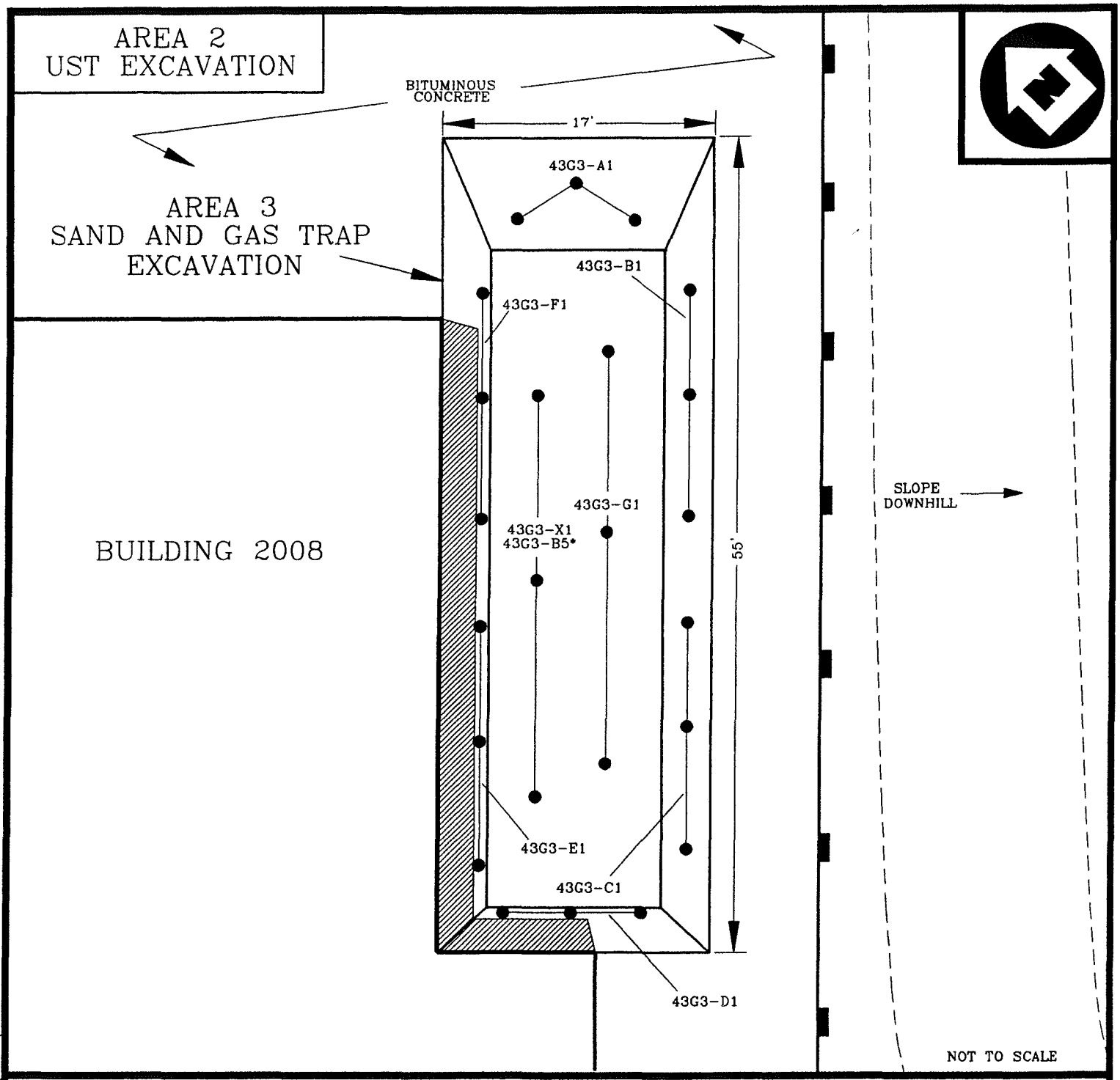
EPH/VPH FIELD SCREEN SAMPLE LOCATIONS

SAND AND GAS TRAP (AREA 3)
AOC 43G
DEVENS, MASSACHUSETTS

ROY F. WESTON, INC.
WESTON MANAGERS DESIGNERS/CONSULTANTS

FIGURE 3-2

FILE NAME: DWN: C:\038611\004\02\43G-3-2.DWG



LEGEND

- WESTON COMPOSITE CONFIRMATION SAMPLE LOCATIONS COLLECTED JULY 10, 1996
- SAMPLE LOCATION 43G3-B5 COLLECTED JUNE 28, 1996
- BUILDING FOUNDATION
- GROUND SURFACE ELEVATION CONTOUR (5 FT INTERVAL)

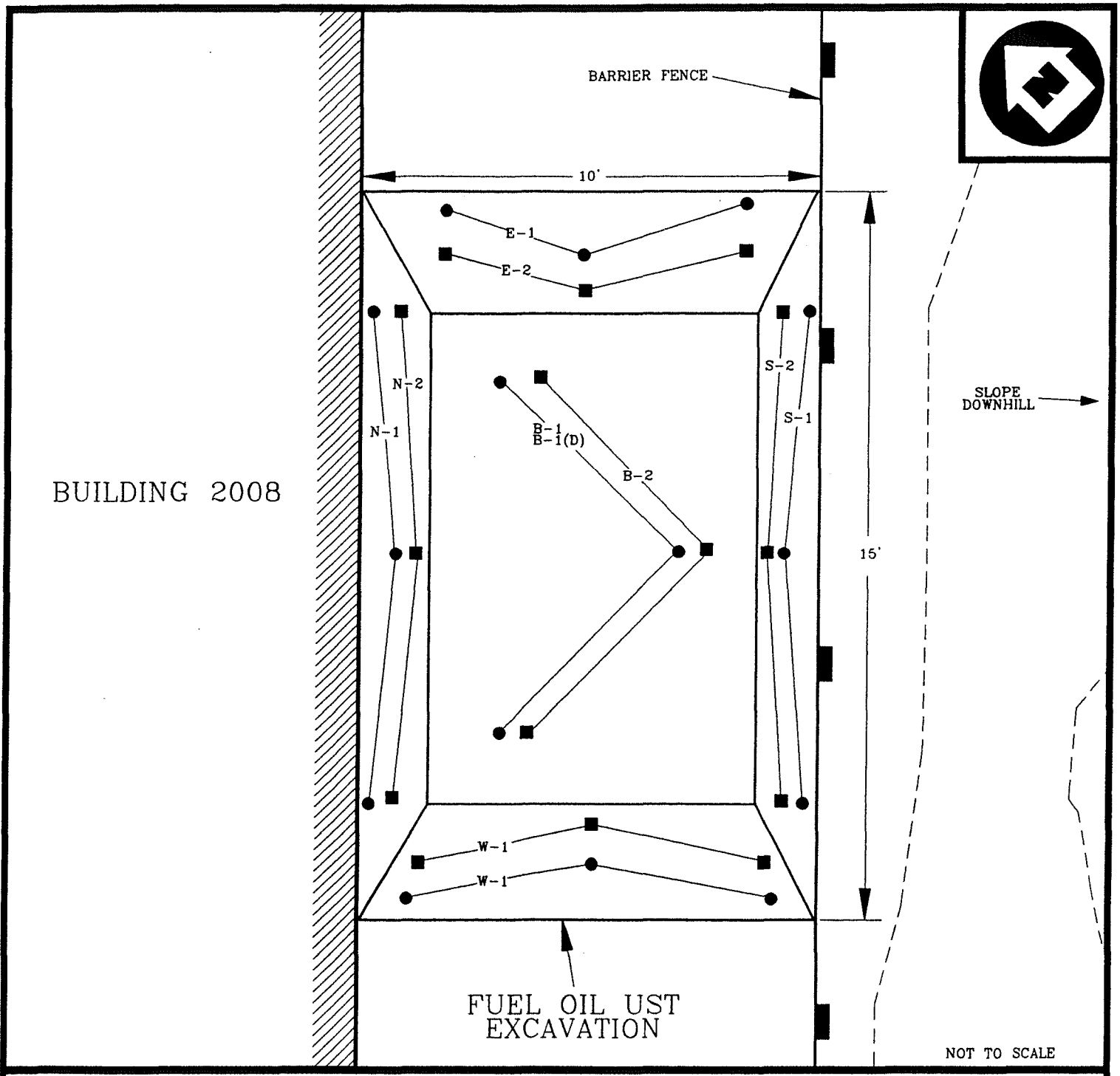
CONFIRMATORY SAMPLE LOCATIONS

SAND AND GAS TRAP (AREA 3)
AOC 43G
DEVENS, MASSACHUSETTS

ROY F. WESTON, INC.
WESTON MANAGERS DESIGNERS/CONSULTANTS

FIGURE 3-3

FILE NAME: DVN: C:\0388118\004\0209\43G-3-3.DWG



LEGEND

WESTON COMPOSITE FIELD SCREEN SAMPLE LOCATIONS COLLECTED AUGUST 16, 1996

WESTON COMPOSITE FIELD SCREEN SAMPLE LOCATIONS COLLECTED AUGUST 21, 1996

GROUND SURFACE ELEVATION CONTOUR (5 FT INTERVAL)

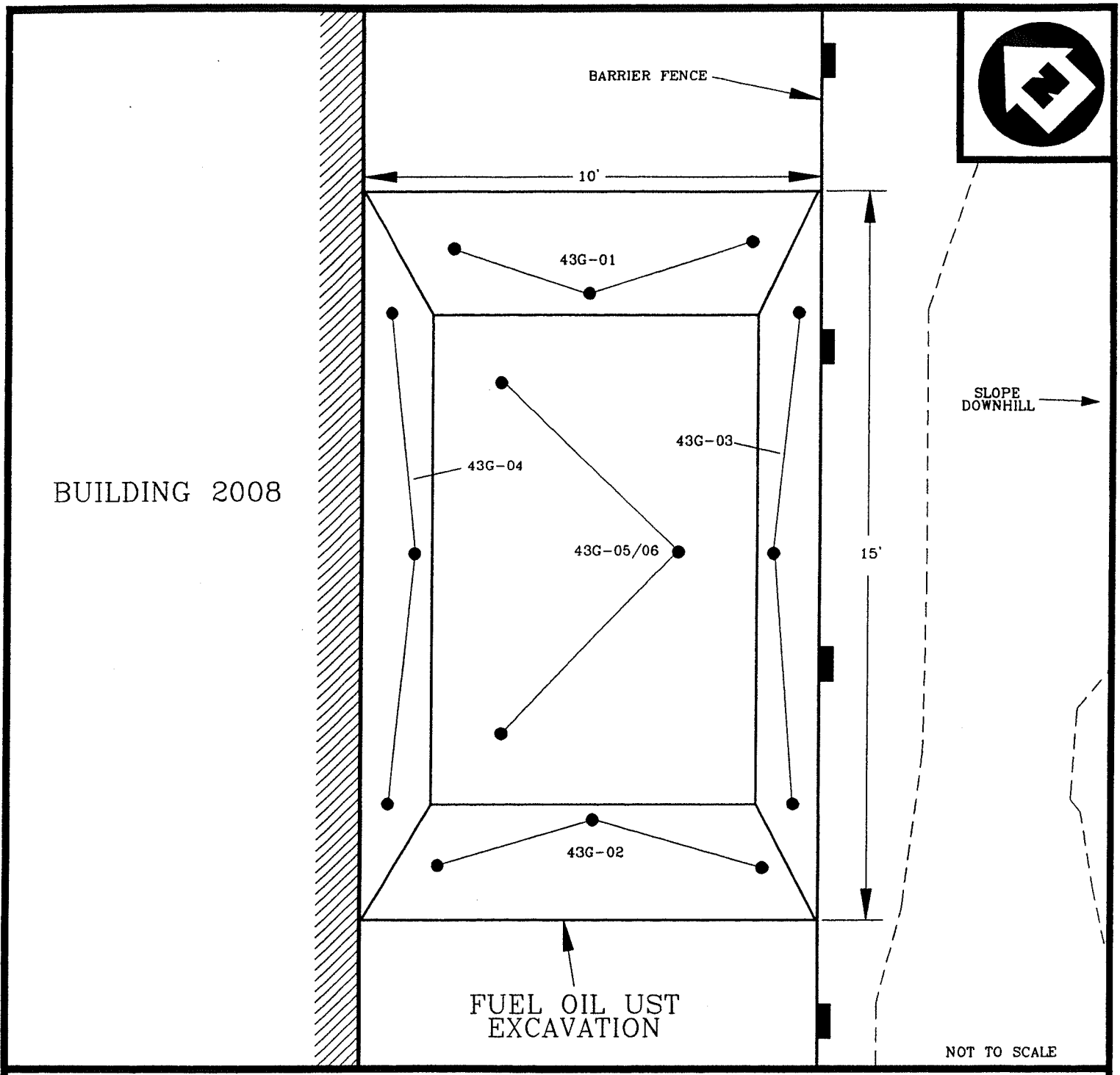
FIELD SCREEN SAMPLE LOCATIONS

FUEL OIL UST
AOC 43G
DEVENS, MASSACHUSETTS

ROY F. WESTON, INC.
WESTON MANAGERS DESIGNERS/CONSULTANTS

FIGURE 3-4

FILE NAME: DVN: C:\0388611B\004\0209\43G-3-4.DWG



LEGEND

WESTON COMPOSITE CONFIRMATION SAMPLE LOCATIONS COLLECTED AUGUST 21, 1996

GROUND SURFACE ELEVATION CONTOUR (5 FT INTERVAL)

CONFIRMATORY SAMPLE LOCATIONS
FUEL OIL UST
AOC 43G
DEVENS, MASSACHUSETTS

ROY F. WESTON, INC.
WESTON MANAGERS DESIGNERS/CONSULTANTS

FIGURE 3-5

FILE NAME: DVN: C:\03886118\004\0209\43G-3-5.DWG

ATTACHMENT A

AOC 43G

FORM #FP292 UST REMOVAL PERMITS AND FUEL OIL UST DISPOSAL RECEIPT

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC SAFETY—DIVISION OF FIRE PREVENTION

PERMIT

6/6/94

FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

C.82 S.40 M.G.L.
DIG SAFE NUMBER
9622306890
Start Date 6-7-94

In accordance with the provisions of Chapter 148, G.L. as provided in Section 38A this permit is granted to

Name: V/M of DPW for Revere DPW Transfer (DFTA)
Full name of person, firm or Corporation

To transport underground steel storage tank(s)
to Approved tank yard# _____

State clearly type of inert gas used in steel storage tank

steel tank: _____
method

FDID# _____

Name and address of contractor disposing tank _____

Fee paid $ 25.00

Location to which tank will be transported

Gerald H Pomposini
Fire Chief

_____
Approved tank yard#

This permit will expire _____ 19

_____
Signature of official granting permit(TITLE)
(Head of Fire Dept.)

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC SAFETY—DIVISION OF FIRE PREVENTION

PERMIT

6/6/94

FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

C.82 S.40 M.G.L.
DIG SAFE NUMBER
9622306890
Start Date 6-7-94

In accordance with the provisions of Chapter 148, G.L. as provided in Section 38A this permit is granted to

Name: V/M of DPW for Revere DPW Transfer (DFTA)
Full name of person, firm or Corporation

To transport underground steel storage tank(s)
to Approved tank yard# _____

State clearly type of inert gas used in steel storage tank

steel tank: _____
method

FDID# _____

Name and address of contractor disposing tank _____

Fee paid $ 25.00

Location to which tank will be transported

Gerald H Pomposini
Fire Chief

_____
Approved tank yard#

This permit will expire _____ 19

_____
Signature of official granting permit(TITLE)
(Head of Fire Dept.)

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC SAFETY—DIVISION OF FIRE PREVENTION

PERMIT

6/6/96

FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

C.32 S.40 M.G.L.

DIG SAFE NUMBER
2 62200 6890
Start Date 6-5-96

In accordance with the provisions of Chapter 148, G.L. as provided in Section 38A this permit is granted to

Name: Wm J. Dow. for Revere (DAN TRANSFER (DFT))
Full name of person, firm or Corporation

To transport underground steel storage tank(s)
to Approved tank yard# _____

State clearly type of inert gas used in steel storage tank

steel tank: _____
method

FOID# _____

Name and address of contractor disposing tank _____

Fee paid $ 25.00

Location to which tank will be transported

Gerard H Fournier
Fire Chief

_____
Approved tank yard#

This permit will expire _____ 19

_____
Signature or official granting permit(TITLE)
(Head of Fire Dept.)

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC SAFETY—DIVISION OF FIRE PREVENTION

PERMIT

6/6 1996

FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

C.32 S.40 M.G.L.

DIG SAFE NUMBE
962301405
Start Date 6/11

In accordance with the provisions of Chapter 148, G.L. as provided in Section 38A this permit is granted to

Name: AMSCO
Full name of person, firm or Corporation

To transport underground steel storage tank(s)
to Approved tank yard# CCC

State clearly type of inert gas used in steel storage tank

steel tank: NITROGEN GAS
method

FOID# _____

Name and address of contractor TOMASELLI & SONS disposing tank 207 MARSTON ST, LAWRENCE, MA

Fee paid $ 25.00

Location to which tank will be transported LAWRENCE, MA

Gerard H Fournier
Fire Chief

CCC
Approved tank yard#

This permit will expire _____ 19

_____
Signature or official granting permit(TITLE)
(Head of Fire Dept.)

F.P. 292

The Commonwealth of Massachusetts

Department of Public Safety—Division of Fire Prevention

APPLICATION FOR PERMIT FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

8/1 1996

C. 92 S. 40 M.G.L.

DIG SAFE NUMBER
963000637
Start Date 8/5/96

To: HEAD OF FIRE DEPARTMENT
DEVENS
City or Town

In accordance with the provisions of Chapter 148, G.L. as provided in Section 38A Application is hereby made by ROY F. WESTON, INC.
(Name of Person, Firm or Corporation)

3701 BARNUM ROAD, DEVENS, MA
Address

(HEATING TANK)

For permission to remove and transport underground steel storage tank(s) from

BLDG 2008, QUEENSTOWN RD, DEVENS
Street address (city or town)

FDID# 17919 to approved Tank Yard# 009

State clearly type of inert gas used in steel storage tank: NITROGEN GAS
Type of inert gas used

Name of Person, Firm, Corporation disposing tank JOHN C. TOMBARELLO & SONS

8/1/96 Date issued - rejected _____ 19 By: [signature]
Bond Date of expiration _____ 19 paid/due Signature of Applicant
Fee $25.00 (MGL C-148, S-10A)

The Commonwealth of Massachusetts

DEPARTMENT OF PUBLIC SAFETY—DIVISION OF FIRE PREVENTION

PERMIT

8/2 1996

FOR REMOVAL AND TRANSPORTATION TO APPROVED TANK YARD

C.92 S.40 M.G.L.

DIG SAFE NUMBER
963000637
Start Date 8/5/96

In accordance with the provisions of Chapter 148, G.L. as provided in Section 38A this permit is granted to

Name: AMSCO
Full name of person, firm or corporation

To transport underground steel storage tank(s) to Approved tank yard# 009

State clearly type of inert gas used in steel storage tank: steel tank: NITROGEN GAS
method

FDID# _____

Fee paid $_____

Name and address of contractor disposing tank JOHN C. TOMBARELLO & SONS

Location to which tank will be transported 207 MARSTON ST LAWRENCE, MA 01841

009
Approved tank yard#

This permit will expire _____ 19

[signature] Deputy Chief
Signature of official granting permit (TITLE)
(Head of Fire Dept.)

R. HEWITT
772-4600

RECEIPT OF DISPOSAL OF UNDERGROUND STEEL STORAGE TANK

NAME AND ADDRESS OF APPROVED TANK YARD: JOHN C. TOMBARELLO & SONS, 307 MARSTON ST. LAWRENCE, MASS. 01841

APPROVED TANK YARD NO. ___ ___ ___ 009

Tank Yard Ledger 502 CMR 3.03(4) Number: 9601229

I certify under penalty of law I have personally examined the underground steel storage tank delivered to this "approved tank yard" by firm, corporation or partnership AMICI and accepted same in conformance with Massachusetts Fire Prevention Regulation 502 CMR 3.00 Provisions for Approving Underground Steel Storage Tank dismantling yards. A valid permit was issued by LOCAL Head of Fire Department FDID# 17919 to transport this tank to this yard.

Name and official title of approved tank yard owner or owners authorized representative:

SIGNATURE	TITLE	DATE SIGNED
John Mcuarto	CDW	9-20-96

This signed receipt of disposal must be returned to the local head of the fire department FDID# 17919 pursuant to 502 CMR 3:00. (EACH TANK MUST HAVE A RECEIPT OF DISPOSAL)

FORM F.P. 291 (rev. 11/95) (OVER) MASSACHUSETTS STATE FIRE MARSHAL'S OFFICE

Tank Data

Gallons 1000

Previous Contents #2 fuel

Diameter 48" Length 10'8"

Date Received 8-20-96

Serial # (if available) ___

Tank I.D. # (Form FP-290) ___

Tank Removed From:

Bldg. # 2002 - Queenstown Rd.
(No. and Street)

Ayer - Fort Devens -
(City or Town)

Fire Dept. Permit # ___

Owner/Operator to mail revised copy of Notification Form(FP-290, or Fp-290R) to: UST Compliance, Office of the State Fire Marshal, 1010 Commonwealth Avenue, Boston, Ma. 02215.

ATTACHMENT B

AOC 43G

HAZARDOUS WASTE MANIFESTS

1. UNIFORM HAZARDOUS WASTE MANIFEST — 1. Generator's US EPA ID No. MA7210025154 — Manifest Document No. J 2124 — 2. Page 1 of 1 — Information in the shaded area is not required by Federal law.

A. State Manifest Document Number: MA J 562124

3. Generator's Name and Mailing Address: UNITED STATES ARMY, DEVENS RFTA 00910, ATTN: GAIL MILLER, AFRC-FMD-DPW-EM-BOX 19, 50B Devens, MA 01433

4. Generator's Phone: 796-2399

B. State Gen. ID: DEP 5008 Base Env. Sp. (AFFE

5. Transporter 1 Company Name: CLEAN HARBORS ENV. SERVICES, INC.

6. US EPA ID Number: MAD039322250

C. State Trans. ID: MA 13241

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone ( ) 617845-1800

E. State Trans. ID

9. Designated Facility Name and Site Address: CLEAN HARBORS OF BRAINTREE INC, 385 QUINCY AVE, BRAINTREE, MA 02184

10. US EPA ID Number: MAD039452337

F. Transporter's Phone ( )

G. State Facility's ID: NOT REQUIRED

H. Facility's Phone: 617 849-180

11. US DOT Description (Including Proper Shipping Name, Hazard Class and ID Number)	12. Containers NO.	Type	13. Total Quantity	14. Unit Wt/Vol	Waste No.
a. WASTE GASOLINE,§,UN1203,PGII	001	TT	00725	G	D001 D018
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (Include physical state and hazard code.)

K. Handling Codes for Wastes Listed Above: a. 302

15. Special Handling Instructions and Additional Information: CH#34527 SB3202 445-8265

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day)
GAIL F. MILLER	Gail F Miller	06/29

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day)
Paul J. Harrison	Paul J. Harrison	06/29

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day)

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in item 19.

Printed/Typed Name	Signature	Date (Month Day)
Tom Lancaster		6/30

Form Approved OMB No. 2050-0039. Expires 9-30-95
EPA Form 8700-22 (Rev. 9-88) Previous editions are obsolete.

GENERATOR

TRANSPORTER

FACILITY

In case of emergency or spill immediately call the National Response Center (800) 424-8802.

Clean Harbors has appropriate permits for and will accept the waste the generator is shippin

COPY>3: FACILITY MAILS TO GENERATOR

Boston, Massachusetts 02108

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

UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator US EPA ID No. MA 7 2 1 0 0 2 5 1 5 4	Manifest Document No. 18775	2. Page 1 of 1	Information in the shaded areas is not required by Federal law.

GENERATOR

3. Generator's Name and Mailing Address
DEVENS RFTA
AFRC-FMD-DPW-EM BOX 19
DEVENS, MA. 01433
00917

4. Generator's Phone (508) 796-2393

A. State Manifest Document Number: MA J149665

B. State Gen. ID: AAFEES Gas Station

5. Transporter 1 Company Name: CYN OIL CORPORATION

6. US EPA ID Number: MAD082303777

C. State Trans. ID: 15408MA

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone (617) 344-0265

E. State Trans. ID

9. Designated Facility Name and Site Address
CYN OIL CORPORATION
1771 WASHINGTON STREET P.O. BOX 119
STOUGHTON, MA 02072

10. US EPA ID Number: MAD082303777

F. Transporter's Phone ( )

G. State Facility's ID: Not Required

H. Facility's Phone (617) 344-0265

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. WASTE PETROLEUM OIL, COMBUSTIBLE LIQUID UN1270 PG III	001	TT	X350	G	MA01
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)
a. PROFILE # 002173
b.
c.
d.

K. Handling Codes for Wastes Listed Above
a. S02 c. T50
b.
d.

15. Special Handling Instructions and Additional Information
D.O.T. ER GUIDE NO. 27
IN CASE OF EMERGENCY CALL CYN OIL CORPORATION 24 HOURS AT (800) 899-1038

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name	Signature	Date (Month Day Year)
X GAIL E. MILLER	X Gail E Miller	07 11 91

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)
CARLOS MARCAL	Carlos Marcal	07 11 91

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name	Signature	Date (Month Day Year)

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name	Signature	Date (Month Day Year)
Kevin P Flaherty	Kevin P Flaherty	07 11 91

In case of emergency or spill, immediately call the National Response Center (800) 424-8802

Form Approved OMB No. 2050-0039. Expires 9-30-96
EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete.

COPY>3: FACILITY MAILS TO GENERATOR

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

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator US EPA ID No. MA7210025154 — Manifest Document No. 19375

2. Page 1 of — Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address: Devens RFTA 00925
AFRC-FMO-DPW-EM-Box 19
Devens, MA. 01433-5190

4. Generator's Phone: 508 796-2395 Attn Gail Miller

A. State Manifest Document Number: MA JI66794

B. State Gen. ID: SAME

5. Transporter 1 Company Name: CYN OIL CORPORATION

6. US EPA ID Number: MAD082303777

C. State Trans. ID: 15416 MA

7. Transporter 2 Company Name

8. US EPA ID Number

D. Transporter's Phone: (617) 341-5101

E. State Trans. ID

9. Designated Facility Name and Site Address:
CYN OIL CORPORATION
1771 WASHINGTON STREET, P. O. BOX 119
STOUGHTON, MA 02072

10. US EPA ID Number: MAD082303777

F. Transporter's Phone ( )

G. State Facility's ID: Not Required

H. Facility's Phone: (617) 341-5108

11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol	I. Waste No.
a. Waste Petroleum O,I Combustible Liquids, UN1270, PG III	001	TT	02500	G	MA[illegible]
b.					
c.					
d.					

J. Additional Descriptions for Materials Listed Above (include physical state and hazard code.)
a. ~~Waste O,I~~ #2,#4 oil tank bottoms lab# 9606233
b.
d.

K. Handling Codes for Wastes Listed Above
a. S02 c. T50
b.
d.

15. Special Handling Instructions and Additional Information
D.O.T. ER GUIDE NO. 27
IN CASE OF EMERGENCY CALL CYN OIL CORPORATION 24 HOURS AT (800) 899-1038

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

If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name: GAIL F. MILLER — Signature: Gail F Miller — Date: Month 08 Day 14 Year 96

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Wayne Holmes — Signature: Wayne Holmes — Date: Month 08 Day 14 Year 96

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name — Signature — Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.
Printed/Typed Name: Richard S Hume — Signature: Richard S Hume — Date: Month 08 Day 14 Year 96

Form Approved OMB No. 2050-0039 Expires 9-30-98
EPA Form 8700-22 (Rev. 9-94) Previous editions are obsolete.

COPY>3: FACILITY MAILS TO GENERATOR

In case of emergency or spill, immediately call the National Response Center (800) 424-8802.

ALTERNATE STRAIGHT BILL OF LADING—SHORT FORM—MEMORANDUM COPY

Name of Carrier: Cyn Oil Corporation	Carrier's No. 713	Date 7-3-96	Shipper No. 205TS

TO Consignee: Cyn Oil Corporation

Street: 1771 Washington Street

Destination: Stoughton, Ma. Zip Code: 2

FROM Shipper: Ft Devens
Bldg. 3701 Barnum Rd.
Devens, Ma.

Emergency Response Phone No: 617 464-6370

Route:

Vehicle No. 32795 MA

No. Shipping Units	HM	Kind of Package, Description of Articles, Special Marks and Exceptions	*Weight (Sub. to Corr.)	RATE	✓	CHARGES
10		RCRA empty drums				
		(last ~~containing~~ petroleum products)				
		10 x 55				

REMIT C.O.D. TO: ADDRESS

C.O.D. AMT:

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

TOTAL CHARGES: $

*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 _____

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 statement:
The carrier shall not make delivery of this shipment without payment of freight and all other charges.
_____ (Signature of Consignor)

FREIGHT CHARGES
Check Appropriate Box:
☐ Freight prepaid ☐ Collect

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of receipt by the carrier of the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above, which said carrier (the word carrier 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 route, 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 terms and conditions of the Uniform Domestic Straight Bill of Lading set forth (1) in Uniform Freight Classifications in effect on the date hereof, if this is a rail or a rail-water shipment, or (2) in the applicable motor carrier classification or tariff if this is a motor carrier shipment.

Shipper hereby certifies that he is familiar with all the terms and conditions of the said bill of lading, set forth in the classification or tariff which governs the transportation of this shipment, and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

"This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation, according to the applicable regulations of the Department of Transportation."

_____ Shipper, Per _____ Agent, Per _____

—Mark with "X" to designate Hazardous Material as defined in Title 49 of Federal Regulations.
For further details on TRANSPORTING HAZARDOUS MATERIALS see Federal Regulations 49 CFR Part 172.

TOPS FORM No. 3841
Printed in the U.S.A.

3

ATTACHMENT C

AOC 43G

COMPACTION TESTING RESULTS
PROFESSIONAL SERVICE INDUSTRIES, INC.

PSI Environmental Geotechnical Construction
Consulting • Engineering • Testing

REPORT OF MOISTURE DENSITY RELATIONSHIP OF SOIL

TESTED FOR: MR. BARRIE FERRARO
ROY F. WESTON, INC.
PO BOX 979
ROCKY HILL, CT 06067

PROJECT: AOC43G
AYER, MASSACHUSETTS

DATE: June 20, 1996

REVISION #1
OUR REPORT NO.: 440-60036-1

TEST DATA

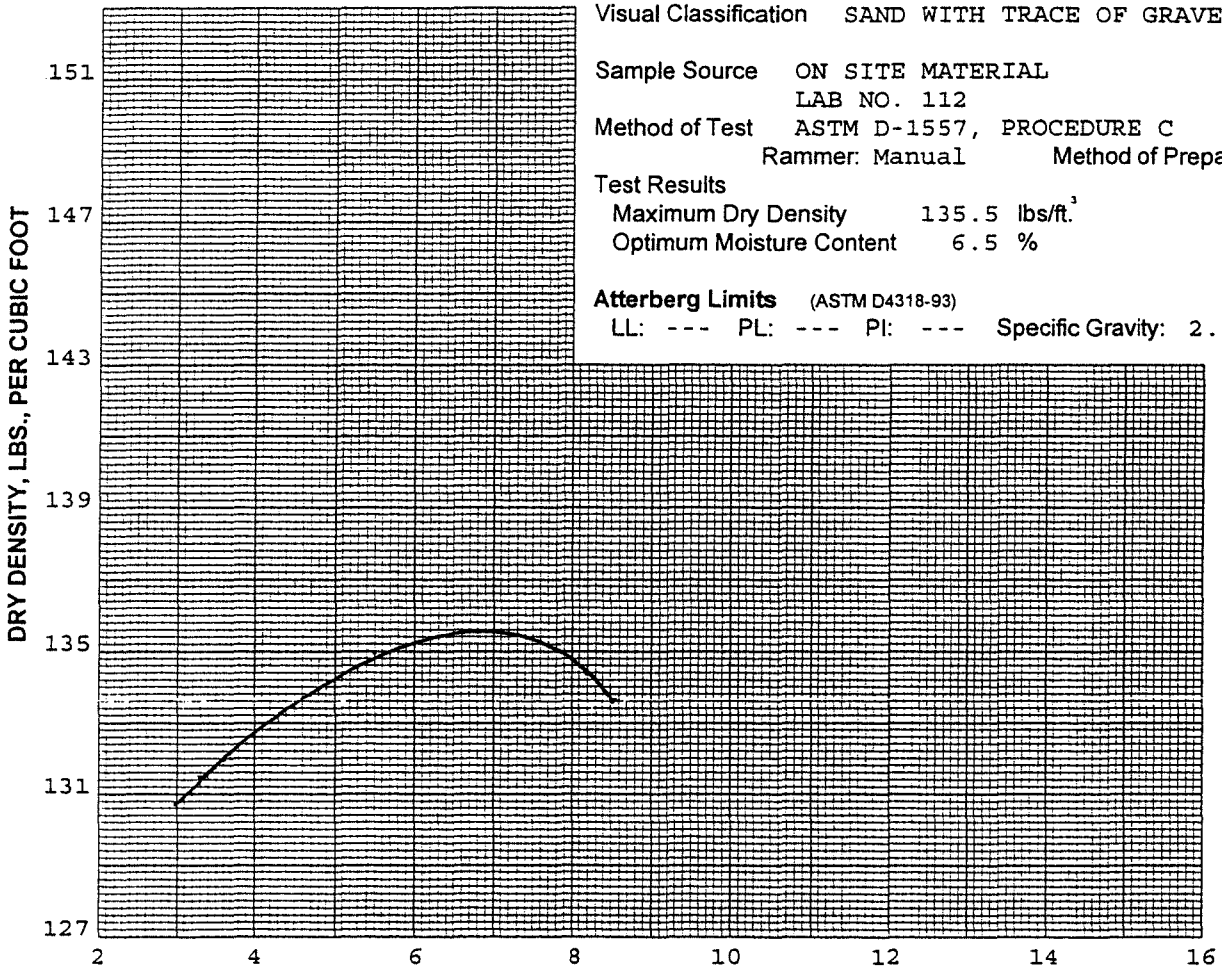
Visual Classification SAND WITH TRACE OF GRAVEL

Sample Source ON SITE MATERIAL
LAB NO. 112

Method of Test ASTM D-1557, PROCEDURE C
Rammer: Manual Method of Preparation: Moist

Test Results
Maximum Dry Density 135.5 lbs/ft.^{3}
Optimum Moisture Content 6.5 %

Atterberg Limits (ASTM D4318-93)
LL: --- PL: --- PI: --- Specific Gravity: 2.52 (estimate)



Grain Size Analysis
(ASTM C136-93 AND/OR C117-90)

Sieve Size	Percent Passing
2"	100
1"	98
1/2"	93
3/8"	88
#4	58
#10	45
#20	36
#40	25
#50	19
#80	12
#200	5.6

REMARKS:

Lab Tech: Mark Alexander

Respectfully submitted,
Professional Service Industries, Inc.

REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI • 1200 Millbury Street, Suite 7D • Worcester, MA 01607 • Phone 508/756-0800 • Fax 508/756-9950

Environmental Geotechnical Construction
Consulting • Engineering • Testing

REPORT OF MOISTURE DENSITY RELATIONSHIP OF SOIL

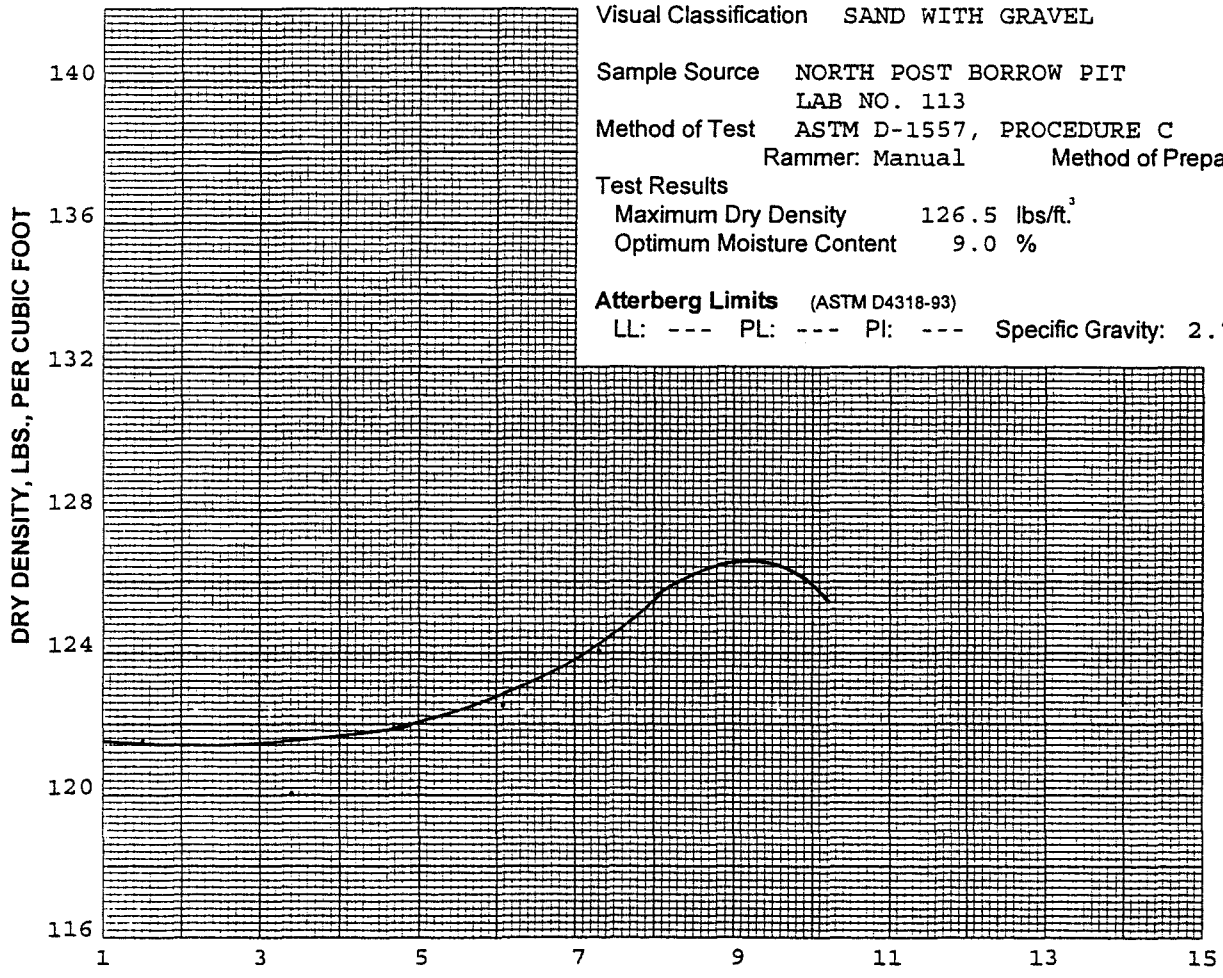
TESTED FOR: MR. BARRIE FERRARO
ROY F. WESTON, INC.
PO BOX 979
ROCKY HILL, CT 06067

PROJECT: AOC43G
AYER, MASSACHUSETTS

DATE: June 20, 1996

OUR REPORT NO.: 440-60036-2

TEST DATA



Visual Classification SAND WITH GRAVEL

Sample Source NORTH POST BORROW PIT
LAB NO. 113

Method of Test ASTM D-1557, PROCEDURE C
Rammer: Manual Method of Preparation: Moist

Test Results
Maximum Dry Density 126.5 lbs/ft.^{3}
Optimum Moisture Content 9.0 %

Atterberg Limits (ASTM D4318-93)
LL: --- PL: --- PI: --- Specific Gravity: 2.70 (estimate)

Grain Size Analysis
(ASTM C136-93 AND/OR C117-90)

Sieve Size	Percent Passing
2"	100
1"	95
1/2"	85
3/8"	81
#4	74
#10	64
#20	44
#40	20
#50	12
#80	5
#200	2.1

REMARKS:

Lab Tech: Roger Olds

Respectfully submitted,
Professional Service Industries, Inc.

REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI • 1200 Millbury Street, Suite 7D • Worcester, MA 01607 • Phone 508/756-0800 • Fax 508/756-9950

Environmental
Geotechnical
Construction
Consulting • Engineering • Testing

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: MR. BARRIE FERRARO
ROY F. WESTON, INC.
PO BOX 979
ROCKY HILL, CT 06067

PROJECT: AOC43G
AYER, MASSACHUSETTS

DATE: June 21, 1996 OUR REPORT NO.: 440-60036-3

TEST DATA: (1) SAND WITH TRACE OF GRAVEL OPT. MOIST. = 6.5%
(2) SAND WITH GRAVEL OPT. MOIST. = 9.0%

TEST NO.	TEST DEPTH	ELEVATION	SOIL ID NUMBER	MAXIMUM LAB DRY * DENSITY	WATER CONTENT	WET DENSITY	DRY DENSITY	PERCENT COMPACTION	COMMENTS*
1	8"	6' BFG	1	135.5	4.6	139.0	132.9	98.1	1 - A
2	8"	6' BFG	1	135.5	4.8	140.7	134.3	99.1	1 - A
3	8"	5' BFG	2	126.5	3.5	129.1	124.7	98.6	1 - A
4	8"	4.5' BFG	2	126.5	3.3	132.6	128.4	101.5	1 - A
5	8"	3.5' BFG	2	126.5	3.5	130.6	126.2	99.8	1 - A
6	8"	3' BFG	2	126.5	3.5	129.7	125.3	99.1	1 - A

TEST LOCATION: Gas station at the corner of Pine and Queenstown

1	Tank removal location, center
2	Tank removal location, north corner
3	Tank removal location, center
4	Tank removal location, south corner
5	Tank removal location, east corner
6	Tank removal location, west corner

NOTES: TESTS PERFORMED PER ASTM D2922-91 & ASTM D3017-88(93)
DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Percent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

***COMMENTS:**
1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. RETEST OF PREVIOUS TEST
D. MOISTURE IN EXCESS OF SPECIFICATIONS
E. MOISTURE BELOW SPECIFICATIONS

* (1) ASTM D-1557, PROCEDURE C (2) ASTM D-1557, PROCEDURE C

TEST INSTRUMENT: Troxler, 3411-B, 12839
STANDARD COUNT M: 564 D: 2629
REMARKS: BFG = Below finished grade.
ADJUSTMENT DATA M: D:

TECHNICIAN: Greg Leroux

Respectfully submitted,
Professional Service Industries, Inc.

THESE TEST RESULTS APPLY ONLY TO THE SPECIFIC LOCATIONS NOTED AND MAY NOT REPRESENT ANY OTHER LOCATIONS OR ELEVATIONS.
REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI • 1200 Millbury Street, Suite 7D • Worcester, MA 01607 • Phone 508/756-0800 • Fax 508/756-9950

Environmental Geotechnical Construction
Consulting • Engineering • Testing

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: MR. BARRIE FERRARO
ROY F. WESTON, INC.
PO BOX 979
ROCKY HILL, CT 06067

PROJECT: AOC43G
AYER, MASSACHUSETTS

DATE: June 21, 1996 OUR REPORT NO.: 440-60036-3

TEST DATA: (2) SAND WITH GRAVEL OPT. MOIST. = 9.0%
(1) SAND WITH TRACE OF GRAVEL OPT. MOIST. = 6.5%

TEST NO.	TEST DEPTH	ELEVATION	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY *	WATER CONTENT	WET DENSITY	DRY DENSITY	PERCENT COMPACTION	COMMENTS*
7	8"	2' BFG	2	126.5	3.5	126.9	122.6	96.9	1 - A
8	8"	1 1/2BFG	2	126.5	3.8	132.7	127.8	101.0	1 - A
9	8"	1 1/2BFG	2	126.5	4.2	133.5	128.1	101.3	1 - A
10	8"	10" BFG	1	135.5	3.8	136.6	131.6	97.1	1 - A

TEST LOCATION: Gas station at the corner of Pine and Queenstowne

7	Tank removal location, center
8	Tank removal location, south corner
9	Tank removal location, north corner
10	Tank removal location, center

NOTES: TESTS PERFORMED PER ASTM D2922-91 & ASTM D3017-88(93)
DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Percent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

***COMMENTS:**
1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. RETEST OF PREVIOUS TEST
D. MOISTURE IN EXCESS OF SPECIFICATIONS
E. MOISTURE BELOW SPECIFICATIONS

* (2) ASTM D-1557, PROCEDURE C (1) ASTM D-1557, PROCEDURE C

TEST INSTRUMENT: Troxler, 3411-B, 12839 STANDARD COUNT M: 569 D: 2622
REMARKS: BFG = Below finished grade. ADJUSTMENT DATA M: D:

TECHNICIAN: Greg Leroux

Respectfully submitted,
Professional Service Industries, Inc.

THESE TEST RESULTS APPLY ONLY TO THE SPECIFIC LOCATIONS NOTED AND MAY NOT REPRESENT ANY OTHER LOCATIONS OR ELEVATIONS.
REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI Environmental Geotechnical Construction
Consulting • Engineering • Testing

RECEIVED
AUG - 3 1996

REPORT OF MOISTURE DENSITY RELATIONSHIP OF SOIL

TESTED FOR: Mr. Barrie Ferraro
Roy F. Weston, Inc.
PO Box 979
Rocky Hill, CT 06067

PROJECT: AOC43G
Ayer, Massachusetts

DATE: July 23, 1996

OUR REPORT NO.: 440-60036-4

TEST DATA

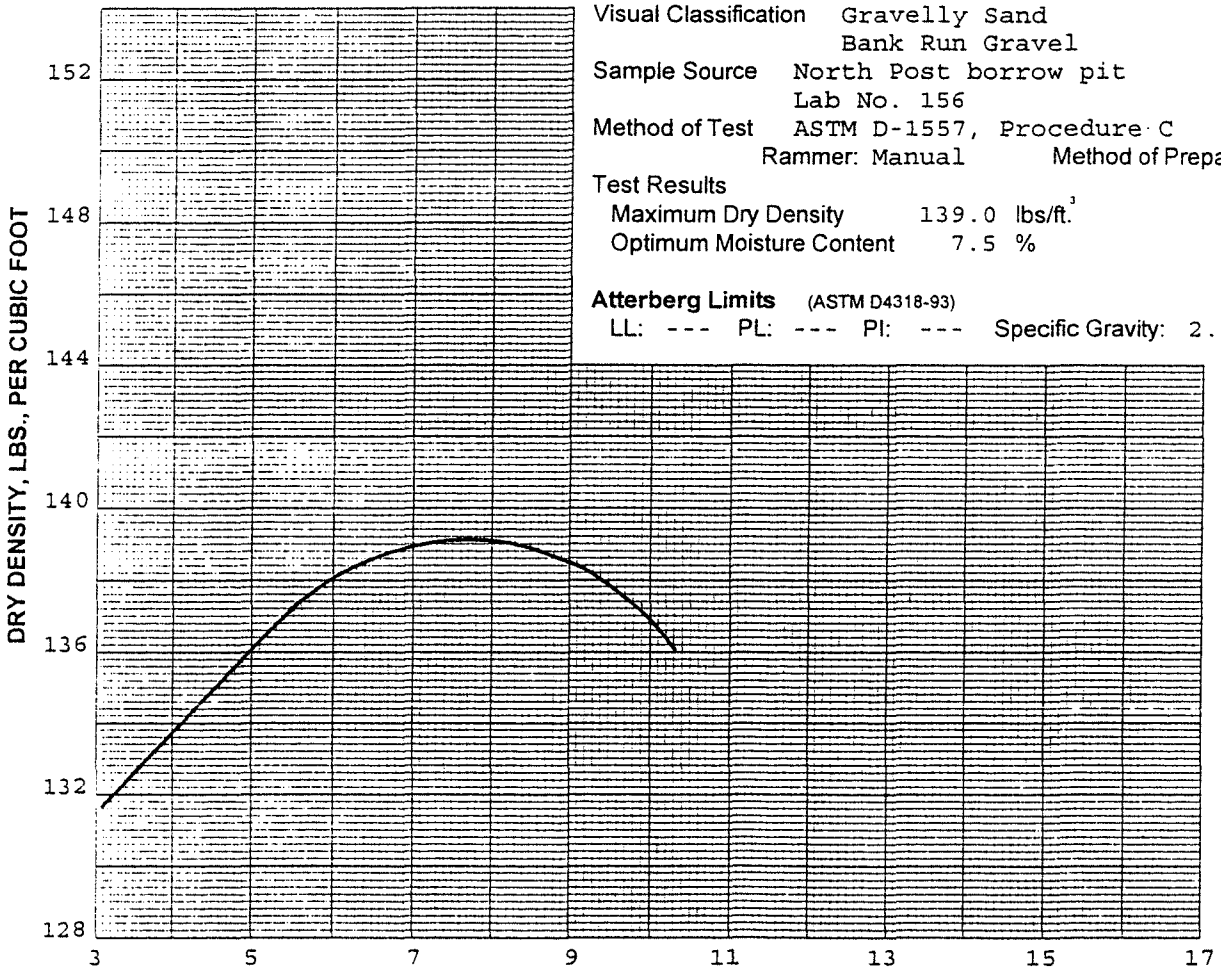
Visual Classification: Gravelly Sand
Bank Run Gravel

Sample Source: North Post borrow pit
Lab No. 156

Method of Test: ASTM D-1557, Procedure C
Rammer: Manual Method of Preparation: Moist

Test Results
Maximum Dry Density 139.0 lbs/ft.³
Optimum Moisture Content 7.5 %

Atterberg Limits (ASTM D4318-93)
LL: --- PL: --- PI: --- Specific Gravity: 2.66 (estimate)



Grain Size Analysis
(ASTM C136-93 AND/OR C117-90)

Sieve Size	Percent Passing
3"	100
2"	92
1"	80
1/2"	67
#4	54
#10	43
#20	30
#40	18
#50	13
#80	9
#200	4.6

REMARKS:

Respectfully submitted,
Professional Service Industries, Inc.

REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI • 1200 Millbury Street, Suite 7D • Worcester, MA 01607 • Phone 508/756-0800 • Fax 508/756-9950

Environmental Geotechnical Construction
Consulting • Engineering • Testing

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Mr. Barrie Ferraro
Roy F. Weston, Inc.
PO Box 979
Rocky Hill, CT 06067

PROJECT: AOC43G
Ayer, Massachusetts

DATE: July 23, 1996

OUR REPORT NO.: 440-60036-5

TEST DATA: (4) Gravelly Sand Bank Run Gravel OPT. MOIST. = 7.5%

TEST NO.	TEST DEPTH	ELEVATION	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY *	WATER CONTENT	WET DENSITY	DRY DENSITY	PERCENT COMPACTION	COMMENTS*
1	6"	8 BFG	4	139.0	2.3	132.7	129.7	93.3	2 - A
2	10"	8 BFG	4	139.0	3.0	137.0	133.0	95.7	2 - A
3	6"	7 BFG	4	139.0	3.2	134.1	129.9	93.5	2 - A
4	6"	7.5 BFG	4	139.0	3.3	139.1	134.7	96.9	2 - A
5	8"	6.5 BFG	4	139.0	3.9	135.0	129.9	93.5	2 - A
6	10"	7 BFG	4	139.0	4.1	136.1	130.7	94.0	2 - A

TEST LOCATION: Gas trap fill area

1	West side
2	East side
3	West side
4	East side
5	West side
6	Center

NOTES: TESTS PERFORMED PER ASTM D2922-91 & ASTM D3017-88(93)
DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Percent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.
* (4) ASTM D-1557, Procedure C

***COMMENTS:**
1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. RETEST OF PREVIOUS TEST
D. MOISTURE IN EXCESS OF SPECIFICATIONS
E. MOISTURE BELOW SPECIFICATIONS

TEST INSTRUMENT: Troxler, 3411B, 12224

STANDARD COUNT M: 610 D: 2606
ADJUSTMENT DATA M: D:

REMARKS: BFG = Below finished grade.
90% compaction required.

Respectfully submitted,
Professional Service Industries, Inc.

THESE TEST RESULTS APPLY ONLY TO THE SPECIFIC LOCATIONS NOTED AND MAY NOT REPRESENT ANY OTHER LOCATIONS OR ELEVATIONS.
REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI • 1200 Millbury Street, Suite 7D • Worcester, MA 01607 • Phone 508/756-0800 • Fax 508/756-9950

Environmental Geotechnical Construction
Consulting • Engineering • Testing

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Mr. Barrie Ferraro
Roy F. Weston, Inc.
PO Box 979
Rocky Hill, CT 06067

PROJECT: AOC43G
Ayer, Massachusetts

DATE: July 23, 1996 OUR REPORT NO.: 440-60036-5

TEST DATA: (4) Gravelly Sand Bank Run Gravel OPT. MOIST. = 7.5%

TEST NO.	TEST DEPTH	ELEVATION	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY *	WATER CONTENT	WET DENSITY	DRY DENSITY	PERCENT COMPACTION	COMMENTS*
7	10"	6 BFG	4	139.0	4.3	140.8	135.0	97.1	2 - A
8	10"	6 BFG	4	139.0	5.0	142.8	136.0	97.8	2 - A

TEST LOCATION: Gas trap fill area

7 East side

8 Center

NOTES: TESTS PERFORMED PER ASTM D2922-91 & ASTM D3017-88(93)
DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Percent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.
* (4) ASTM D-1557, Procedure C

*COMMENTS:
1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. RETEST OF PREVIOUS TEST
D. MOISTURE IN EXCESS OF SPECIFICATIONS
E. MOISTURE BELOW SPECIFICATIONS

TEST INSTRUMENT:

STANDARD COUNT M: D:
ADJUSTMENT DATA M: D:

REMARKS: BFG = Below finished grade.

Respectfully submitted,
Professional Service Industries, Inc.

THESE TEST RESULTS APPLY ONLY TO THE SPECIFIC LOCATIONS NOTED AND MAY NOT REPRESENT ANY OTHER LOCATIONS OR ELEVATIONS.
REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI • 1200 Millbury Street, Suite 7D • Worcester, MA 01607 • Phone 508/756-0800 • Fax 508/756-9950

Environmental
Geotechnical
Construction
Consulting • Engineering • Testing

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Mr. Barrie Ferraro
Roy F. Weston, Inc.
PO Box 979
Rocky Hill, CT 06067

PROJECT: AOC43G
Ayer, Massachusetts

DATE: July 24, 1996 OUR REPORT NO.: 440-60036-6

TEST DATA: (4) Gravelly Sand Bank Run Gravel OPT. MOIST. = 7.5%

TEST NO.	TEST DEPTH	ELEVATION	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY *	WATER CONTENT	WET DENSITY	DRY DENSITY	PERCENT COMPACTION	COMMENTS*
1	8"	-6.00	4	139.0	6.2	141.7	133.4	96.0	2 - A
2	8"	-6.00	4	139.0	6.4	141.4	132.9	95.6	2 - A
3	8"	-5.50	4	139.0	5.0	143.0	136.2	98.0	2 - A
4	8"	-5.50	4	139.0	5.6	140.8	133.3	95.9	2 - A
5	8"	-5.50	4	139.0	4.1	147.7	141.9	102.1	2 - A
6	8"	-5.50	4	139.0	4.9	137.4	131.0	94.2	2 - A

TEST LOCATION: Excavation south/east of existing building

1	East side
2	West side
3	East side
4	West side
5	East side
6	West side

NOTES: TESTS PERFORMED PER ASTM D2922-91 & ASTM D3017-88(93)
DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Percent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.
* (4) ASTM D-1557, Procedure C

***COMMENTS:**
1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. RETEST OF PREVIOUS TEST
D. MOISTURE IN EXCESS OF SPECIFICATIONS
E. MOISTURE BELOW SPECIFICATIONS

TEST INSTRUMENT: Troxler, 3411B, 7403

STANDARD COUNT M: 519 D: 2780
ADJUSTMENT DATA M: D:

REMARKS: Finished grade = 0.00'
Specification = 90% compaction

Respectfully submitted,
Professional Service Industries, Inc.

THESE TEST RESULTS APPLY ONLY TO THE SPECIFIC LOCATIONS NOTED AND MAY NOT REPRESENT ANY OTHER LOCATIONS OR ELEVATIONS.
REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI Environmental Geotechnical Construction
Consulting • Engineering • Testing

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Mr. Barrie Ferraro
Roy F. Weston, Inc.
PO Box 979
Rocky Hill, CT 06067

PROJECT: AOC43G
Ayer, Massachusetts

DATE: July 24, 1996 OUR REPORT NO.: 440-60036-6

TEST DATA: (4) Gravelly Sand Bank Run Gravel OPT. MOIST. = 7.5%
(2) SAND WITH GRAVEL OPT. MOIST. = 9.0%

TEST NO.	TEST DEPTH	ELEVATION	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY *	WATER CONTENT	WET DENSITY	DRY DENSITY	PERCENT COMPACTION	COMMENTS*
7	8"	-4.50	4	139.0	4.4	139.8	133.9	96.3	2 - A
8	8"	-4.50	4	139.0	4.6	138.3	132.2	95.1	2 - A
9	8"	-4.00	4	139.0	5.2	137.4	130.6	94.0	2 - A
10	8"	-4.00	4	139.0	6.2	141.8	133.5	96.0	2 - A
11	8"	-3.50	2	126.5	6.4	133.3	125.3	99.1	2 - A
12	8"	-3.50	2	126.5	6.2	125.2	117.9	93.2	2 - A

TEST LOCATION: Excavation southeast corner of building

7 East side

8 West side

9 East side

10 West side

11 East side

12 West side

NOTES: TESTS PERFORMED PER ASTM D2922-91 & ASTM D3017-88(93)
DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Percent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

***COMMENTS:**
1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. RETEST OF PREVIOUS TEST
D. MOISTURE IN EXCESS OF SPECIFICATIONS
E. MOISTURE BELOW SPECIFICATIONS

* (4) ASTM D-1557, Procedure C (2) ASTM D-1557, PROCEDURE C

TEST INSTRUMENT:

STANDARD COUNT M: D:

REMARKS: See page #1.

ADJUSTMENT DATA M: D:

Respectfully submitted,
Professional Service Industries, Inc.

THESE TEST RESULTS APPLY ONLY TO THE SPECIFIC LOCATIONS NOTED AND MAY NOT REPRESENT ANY OTHER LOCATIONS OR ELEVATIONS.
REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI • 1200 Millbury Street, Suite 7D • Worcester, MA 01607 • Phone 508/756-0800 • Fax 508/756-9950

Environmental
Geotechnical
Construction
Consulting • Engineering • Testing

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Mr. Barrie Ferraro
Roy F. Weston, Inc.
PO Box 979
Rocky Hill, CT 06067

PROJECT: AOC43G
Ayer, Massachusetts

DATE: July 24, 1996 OUR REPORT NO.: 440-60036-6

TEST DATA: (4) Gravelly Sand Bank Run Gravel OPT. MOIST. = 7.5%
(2) SAND WITH GRAVEL OPT. MOIST. = 9.0%

TEST NO.	TEST DEPTH	ELEVATION	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY *	WATER CONTENT	WET DENSITY	DRY DENSITY	PERCENT COMPACTION	COMMENTS*
13	8"	-3.00	4	139.0	5.3	137.8	130.9	94.2	2 - A
14	8"	-3.00	2	126.5	5.9	127.7	120.6	95.3	2 - A
15	8"	-2.50	2	126.5	4.9	129.4	123.4	97.5	2 - A
16	8"	-2.50	2	126.5	5.0	132.6	126.3	99.8	2 - A
17	8"	-2.00	4	139.0	3.8	138.9	133.8	96.3	2 - A
18	8"	-2.00	4	139.0	4.6	134.7	128.8	92.7	2 - A

TEST LOCATION: Excavation southeast corner of building

13 East side

14 West side

15 East side

16 West side

17 East side

18 West side

NOTES: TESTS PERFORMED PER ASTM D2922-91 & ASTM D3017-88(93)
DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Percent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.

*COMMENTS:
1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. RETEST OF PREVIOUS TEST
D. MOISTURE IN EXCESS OF SPECIFICATIONS
E. MOISTURE BELOW SPECIFICATIONS

* (4) ASTM D-1557, Procedure C (2) ASTM D-1557, PROCEDURE C

TEST INSTRUMENT:

STANDARD COUNT M: D:

REMARKS: See page #1.

ADJUSTMENT DATA M: D:

Respectfully submitted,
Professional Service Industries, Inc.

THESE TEST RESULTS APPLY ONLY TO THE SPECIFIC LOCATIONS NOTED AND MAY NOT REPRESENT ANY OTHER LOCATIONS OR ELEVATIONS.
REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI • 1200 Millbury Street, Suite 7D • Worcester, MA 01607 • Phone 508/756-0800 • Fax 508/756-9950

Environmental
Geotechnical
Construction
Consulting • Engineering • Testing

REPORT OF FIELD COMPACTION TESTS

TESTED FOR: Mr. Barrie Ferraro
Roy F. Weston, Inc.
PO Box 979
Rocky Hill, CT 06067

PROJECT: AOC43G
Ayer, Massachusetts

DATE: July 24, 1996 OUR REPORT NO.: 440-60036-6

TEST DATA: (4) Gravelly Sand Bank Run Gravel OPT. MOIST. = 7.5%

TEST NO.	TEST DEPTH	ELEVATION	SOIL ID NUMBER	MAXIMUM LAB DRY DENSITY *	WATER CONTENT	WET DENSITY	DRY DENSITY	PERCENT COMPACTION	COMMENTS*
19	8"	-0.50	4	139.0	5.5	138.9	131.7	94.7	2 - A
20	8"	-0.50	4	139.0	4.8	137.1	130.8	94.1	2 - A

TEST LOCATION: Excavation southeast of existing building

19 East side

20 West side

NOTES: TESTS PERFORMED PER ASTM D2922-91 & ASTM D3017-88(93)
DENSITIES SHOWN: Lbs. per cubic foot
WATER CONTENT: Percent of dry weight
PERCENT COMPACTION: Based on maximum dry density obtained on sample indicated by soil ID number.
* (4) ASTM D-1557, Procedure C

*COMMENTS:
1. FILL MATERIAL
2. BACKFILL
3. BASE COURSE
4. SUBBASE
5. SOIL CEMENT
6. OTHER

A. TEST RESULTS COMPLY WITH SPECIFICATIONS
B. PERCENT COMPACTION DOES NOT COMPLY WITH SPECIFICATIONS
C. RETEST OF PREVIOUS TEST
D. MOISTURE IN EXCESS OF SPECIFICATIONS
E. MOISTURE BELOW SPECIFICATIONS

TEST INSTRUMENT:
REMARKS:

STANDARD COUNT M: D:
ADJUSTMENT DATA M: D:

Respectfully submitted,
Professional Service Industries, Inc.

THESE TEST RESULTS APPLY ONLY TO THE SPECIFIC LOCATIONS NOTED AND MAY NOT REPRESENT ANY OTHER LOCATIONS OR ELEVATIONS.
REPORTS MAY NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT WRITTEN PERMISSION BY PROFESSIONAL SERVICE INDUSTRIES, INC.

Information To Build On

PSI • 1200 Millbury Street, Suite 7D • Worcester, MA 01607 • Phone 508/756-0800 • Fax 508/756-9950

ATTACHMENT D

AOC 43G

SAND AND GAS TRAP - AREA 3
LIQUID WASTE CHARACTERIZATION
ROY F. WESTON, INC.

Sample collected June 10, 1996

Katahdin
ANALYTICAL SERVICES

July 1, 1996

Mr. Bill Dale
Roy F. Weston
88 Pine Street
Fort Devens, MA 01433

RE: Katahdin Lab Number: WM1184
Project ID: Fort Devens
Project Manager: Ms. Lil Pepin
Sample Receipt Date: June 12, 1996

Dear Mr. Dale:

Please find enclosed the following information:

* Report of Analysis
* Quality Control Data Summary
* Confirmation
* Chain of Custody

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Deborah J. Nadeau
Authorized Signature

7·1·96
Date

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Arsenic, Total	0.031	mg/L	1.0	0.008	200.7/6010	06/14/96	EM	
Barium, Total	0.037	mg/L	1.0	0.005	200.7/6010	06/14/96	EM	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	06/14/96	EM	
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/14/96	EM	
Lead, Total	0.037	mg/L	1.0	0.005	200.7/6010	06/14/96	EM	1
Mercury, Total	<0.80	µg/L	4.0	0.20	245.1	06/14/96	DE	2,
Selenium, Total	0.011	mg/L	1.0	0.010	200.7/6010	06/14/96	EM	
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/14/96	EM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value.

(1) Sample Preparation on 06/13/96 by DJE using 3010
(2) Sample Preparation on 06/13/96 by DJE using 245.1
(3) The laboratory's Practical Quantitation Level could not be achieved for this parameter due to sample composition, matrix effects, sample volume, or quantity used for analysis.

07/01/96

LJO/kdwlp(dw)/tl

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Cyanide, Reactive	<20	mg/L	1.0	20	7.3.4.2	06/20/96	CM	1
Ignitability-Flash Point	>65	degrees C	1.0	25	1010	06/19/96	WL	
Sulfide, Reactive	<27	mg/L	1.0	27	7.3.4.2	06/18/96	BC	1
pH (Laboratory)	5.9	pH Units	1.0	0.1	150.1	06/12/96	JF	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/18/96 by CLM

07/01/96

LJO/ejnejn/pph

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diesel Range Organics								1,2,
Diesel Range Organics	21000.	µg/L	10	50	8015M-DRO	06/16/96	RH	
o-Terphenyl	DL	%	10		8015M-DRO	06/16/96	RH	
Gasoline Range Organics								
Gasoline Range Organics	11000.	µg/L	100	10	8015M-GRO	06/13/96	TL	
4-Bromofluorobenzene	105.	%	1.0		8015M-GRO	06/13/96	TL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/13/96 by NEN using ME DEP 4.1.25
(2) "DL" flag denotes inability to calculate surrogate recovery due to sample dilution.
(3) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.

07/01/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Pesticides/PCBs by USEPA 8080								1
alpha-BHC	<0.06	µg/L	1.1	0.05	EPA 8080	06/14/96	SW	
gamma-BHC (Lindane)	0.59	µg/L	1.1	0.05	EPA 8080	06/14/96	SW	
Heptachlor	<0.06	µg/L	1.1	0.05	EPA 8080	06/14/96	SW	
Aldrin	<0.06	µg/L	1.1	0.05	EPA 8080	06/14/96	SW	
beta-BHC	<0.06	µg/L	1.1	0.05	EPA 8080	06/14/96	SW	
delta-BHC	<0.06	µg/L	1.1	0.05	EPA 8080	06/14/96	SW	
Heptachlor epoxide	<0.06	µg/L	1.1	0.05	EPA 8080	06/14/96	SW	
Endosulfan I	<0.06	µg/L	1.1	0.05	EPA 8080	06/14/96	SW	
4,4'-DDE	<0.1	µg/L	1.1	0.1	EPA 8080	06/14/96	SW	
Dieldrin	<0.1	µg/L	1.1	0.1	EPA 8080	06/14/96	SW	
Endrin	<0.1	µg/L	1.1	0.1	EPA 8080	06/14/96	SW	
4,4'-DDD	<0.1	µg/L	1.1	0.1	EPA 8080	06/14/96	SW	
Endosulfan II	<0.1	µg/L	1.1	0.1	EPA 8080	06/14/96	SW	
4,4'-DDT	<0.1	µg/L	1.1	0.1	EPA 8080	06/14/96	SW	
Endrin aldehyde	<0.1	µg/L	1.1	0.1	EPA 8080	06/14/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/13/96 by NEN using EPA 3510

07/01/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Endosulfan sulfate	<0.1	µg/L	1.1	0.1	EPA 8080	06/14/96	SW	
Methoxychlor	<0.6	µg/L	1.1	0.5	EPA 8080	06/14/96	SW	
Chlordane	<0.6	µg/L	1.1	0.5	EPA 8080	06/14/96	SW	
Toxaphene	<1.1	µg/L	1.1	1	EPA 8080	06/14/96	SW	
PCB-1016	<0.6	µg/L	1.1	0.5	EPA 8080	06/14/96	SW	
PCB-1221	<1.1	µg/L	1.1	1	EPA 8080	06/14/96	SW	
PCB-1232	<0.6	µg/L	1.1	0.5	EPA 8080	06/14/96	SW	
PCB-1242	<0.6	µg/L	1.1	0.5	EPA 8080	06/14/96	SW	
PCB-1248	<0.6	µg/L	1.1	0.5	EPA 8080	06/14/96	SW	
PCB-1254	<0.6	µg/L	1.1	0.5	EPA 8080	06/14/96	SW	
PCB-1260	<0.6	µg/L	1.1	0.5	EPA 8080	06/14/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	99.	%	1.1		EPA 8080	06/14/96	SW	
Decachlorobiphenyl (% Recovery)	78.	%	1.1		EPA 8080	06/14/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/01/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								1,2,3
Dichlorodifluoromethane	<40.	µg/L	20	2	EPA 8260	06/18/96	DW	
Chloromethane	<40.	µg/L	20	2	EPA 8260	06/18/96	DW	
Vinyl chloride	<40.	µg/L	20	2	EPA 8260	06/18/96	DW	
Bromomethane	<40.	µg/L	20	2	EPA 8260	06/18/96	DW	
Chloroethane	<40.	µg/L	20	2	EPA 8260	06/18/96	DW	
Trichlorofluoromethane	<40.	µg/L	20	2	EPA 8260	06/18/96	DW	
1,1-Dichloroethene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Methylene chloride	B19	µg/L	20	1	EPA 8260	06/18/96	DW	
trans-1,2-Dichloroethene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,1-Dichloroethane	J14.	µg/L	20	1	EPA 8260	06/18/96	DW	
cis-1,2-Dichloroethene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
2,2-Dichloropropane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Bromochloromethane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(3) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

07/01/96

LJO/jcbejn/lab/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloroform	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,1,1-Trichloroethane	J15	µg/L	20	1	EPA 8260	06/18/96	DW	
1,2-Dichloroethane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,1-Dichloropropene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Carbon tetrachloride	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Benzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,2-Dichloropropane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Trichloroethene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
cis-1,3-Dichloropropene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Dibromomethane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Bromodichloromethane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Toluene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
trans-1,3-Dichloropropene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,1,2-Trichloroethane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value

07/01/96

LJO/jcbejn/lab/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,3-Dichloropropane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Dibromochloromethane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Tetrachloroethene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,2-Dibromoethane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Chlorobenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,1,1,2-tetrachloroethane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Ethylbenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
m-Xylene/p-Xylene	B59	µg/L	20	1	EPA 8260	06/18/96	DW	
Bromoform	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
o-Xylene	22.	µg/L	20	1	EPA 8260	06/18/96	DW	
Styrene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,1,2,2-Tetrachloroethane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,2,3-Trichloropropane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Isopropylbenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/01/96

LJO/jcbejn/lab/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromobenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
2-Chlorotoluene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
n-Propylbenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
4-Chlorotoluene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,3,5-Trimethylbenzene	23.	µg/L	20	1	EPA 8260	06/18/96	DW	
tert-Butylbenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,2,4-Trimethylbenzene	25.	µg/L	20	1	EPA 8260	06/18/96	DW	
sec-Butylbenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,3-Dichlorobenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
4-Isopropyltoluene	J15.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,4-Dichlorobenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,2-Dichlorobenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
n-Butylbenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,2-Dibromo-3-chloropropane	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' valu .

07/01/96

LJO/jcbejn/lab/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-1
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
LQ-01	Aqueous	W DALE	06/11/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2,4-Trichlorobenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Naphthalene	B34	µg/L	20	1	EPA 8260	06/18/96	DW	
Hexachlorobutadiene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
1,2,3-Trichlorobenzene	<20.	µg/L	20	1	EPA 8260	06/18/96	DW	
Dibromofluoromethane (Surr.)	105.	%	20		EPA 8260	06/18/96	DW	
Toluene-d8 (%)	102.	%	20		EPA 8260	06/18/96	DW	
p-Bromofluorobenzene (%)	104.	%	20		EPA 8260	06/18/96	DW	
Acetone	B3600	µg/L	20	5.0	EPA 8260	06/18/96	DW	
2-Butanone	140.	µg/L	20	5.0	EPA 8260	06/18/96	DW	
4-Methyl-2-pentanone	270.	µg/L	20	3.0	EPA 8260	06/18/96	DW	
2-Hexanone	<80.	µg/L	20	4.0	EPA 8260	06/18/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/01/96

LJO/jcbejn/lab/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

Lab Number : WM-1184-2
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TRIP BLANK	Aqueous	W DALE	06/07/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								1,-
Dichlorodifluoromethane	<2	µg/L	1.0	2	EPA 8260	06/17/96	DW	
Chloromethane	<2	µg/L	1.0	2	EPA 8260	06/17/96	DW	
Vinyl chloride	<2	µg/L	1.0	2	EPA 8260	06/17/96	DW	
Bromomethane	<2	µg/L	1.0	2	EPA 8260	06/17/96	DW	
Chloroethane	<2	µg/L	1.0	2	EPA 8260	06/17/96	DW	
Trichlorofluoromethane	<2	µg/L	1.0	2	EPA 8260	06/17/96	DW	
1,1-Dichloroethene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Methylene chloride	2.	µg/L	1.0	1	EPA 8260	06/17/96	DW	
trans-1,2-Dichloroethene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,1-Dichloroethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
cis-1,2-Dichloroethene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
2,2-Dichloropropane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Bromochloromethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Chloroform	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value:
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

07/01/96

LJO/jcbejn/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-2
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TRIP BLANK	Aqueous	W DALE	06/07/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,2-Dichloroethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,1-Dichloropropene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Carbon tetrachloride	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Benzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,2-Dichloropropane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Trichloroethene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
cis-1,3-Dichloropropene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Dibromomethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Bromodichloromethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Toluene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
trans-1,3-Dichloropropene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,1,2-Trichloroethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,3-Dichloropropane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Dibromochloromethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/01/96

LJO/jcbejn/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-2
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TRIP BLANK	Aqueous	W DALE	06/07/96	06/12/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,2-Dibromoethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Chlorobenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,1,1,2-tetrachloroethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Ethylbenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
m-Xylene/p-Xylene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Bromoform	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
o-Xylene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Styrene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,1,2,2-Tetrachloroethane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,2,3-Trichloropropane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Isopropylbenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Bromobenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
2-Chlorotoluene	J0.5	µg/L	1.0	1	EPA 8260	06/17/96	DW	
n-Propylbenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value .

07/01/96

LJO/jcbejn/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-2
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TRIP BLANK	Aqueous	W DALE	06/07/96	06/12/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Chlorotoluene	JB0.6	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,3,5-Trimethylbenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
tert-Butylbenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,2,4-Trimethylbenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
sec-Butylbenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,3-Dichlorobenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
4-Isopropyltoluene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,4-Dichlorobenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,2-Dichlorobenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
n-Butylbenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,2-Dibromo-3-chloropropane	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,2,4-Trichlorobenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Naphthalene	JB0.5	µg/L	1.0	1	EPA 8260	06/17/96	DW	
Hexachlorobutadiene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	
1,2,3-Trichlorobenzene	<1	µg/L	1.0	1	EPA 8260	06/17/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/01/96

LJO/jcbejn/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
88 PINE ST
FORT DEVENS, MA 01433

Lab Number : WM-1184-2
Report Date: 07/01/96
PO No. : LL-2271-A1
Project : 03886-118-004-0204-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TRIP BLANK	Aqueous	W DALE	06/07/96	06/12/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	97.	%	1.0		EPA 8260	06/17/96	DW	
Toluene-d8 (%)	99.	%	1.0		EPA 8260	06/17/96	DW	
p-Bromofluorobenzene (%)	98.	%	1.0		EPA 8260	06/17/96	DW	
Acetone	B6	µg/L	1.0	5.0	EPA 8260	06/17/96	DW	
2-Butanone	J1	µg/L	1.0	5.0	EPA 8260	06/17/96	DW	
4-Methyl-2-pentanone	<3.0	µg/L	1.0	3.0	EPA 8260	06/17/96	DW	
2-Hexanone	<4.0	µg/L	1.0	4.0	EPA 8260	06/17/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/01/96

LJO/jcbejn/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin Analytical Services, Inc.
Elements Section

Client:	ROY F WESTON
Work Order:	WM1184
Prep. Date:	06/13/96
QC Batch ID:	MF13ICW1

Aqueous Preparation Blank (P B W)

Method 3010 (HCl) Elements:	Method	Measured Conc. (mg/L)	Analysis Date	Acceptance Limit (mg/L)	Notes
Arsenic	200.7/6010	<0.008	14-Jun-96	0.008	
Barium	200.7/6010	<0.005	14-Jun-96	0.005	
Cadmium	200.7/6010	<0.010	14-Jun-96	0.010	
Chromium	200.7/6010	<0.015	14-Jun-96	0.015	
Lead	200.7/6010	<0.005	14-Jun-96	0.005	
Selenium	200.7/6010	<0.010	14-Jun-96	0.010	
Silver	200.7/6010	<0.015	14-Jun-96	0.015	

Notes:

1) Blank acceptance limits are equivalent to PQLs unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)

Aqueous Laboratory Control Sample (LCSW)

Method 3010 (HCl) Element:	Measured Conc. (mg/L)	Analysis Date	True Value (mg/L)	Calculated Rec (%)	Control Limits (%)	Notes
Arsenic	1.92	14-Jun-96	2.00	96%	80.0-120	
Barium	1.91	14-Jun-96	2.00	96%	80.0-120	
Cadmium	0.051	14-Jun-96	0.050	102%	80.0-120	
Chromium	0.205	14-Jun-96	0.200	103%	80.0-120	
Lead	0.513	14-Jun-96	0.500	103%	80.0-120	
Selenium	1.90	14-Jun-96	2.00	95%	80.0-120	
Silver	0.048	14-Jun-96	0.050	96%	80.0-120	

Notes:

1) LCS control limits are nominal values, effective 9/15/93
2) See cover letter for additional information. (if notated)
3) Analysis methods are the same as the analysis methods for the prep blank.

Katahdin Analytical Services, Inc.
Elements Section

MERCURY

Client:	ROY F WESTON
Method:	245.1 / 7470
Work Order:	WM1184

Aqueous Preparation Blank (P B W)

Prep. Date	Analysis Date	QC Batch ID	Measured Conc. (ug/L)	Acceptance Limit (ug/L)	Notes
13-Jun-96	14-Jun-96	MF13HGW1	<0.20	0.20	

Aqueous Laboratory Control Sample (LCSW)

Prep. Date	Analysis Date	QC Batch ID	Measured Conc. (ug/L)	Ref. Value (ug/L)	Calculated Rec. %	Control Limits (%)
13-Jun-96	14-Jun-96	MF13HGW1	10.0	10.0	100%	80-120

Notes: 1) Blank acceptance limits are equivalent ot PQL's unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)
3) See cover letter for additional information. (if notated)

Katahdin Analytical Services, Inc.
Quality Control Report

Method Blank and Laboratory Control Sample Results

Client: Roy F. Weston
Work Order: WM1184

			METHOD BLANK RESULTS					*LABORATORY CONTROL SAMPLE RESULTS*					
	Date	Date		Concentration		Practical		True	Measured	Percent	Acceptance	Acceptance
rameter	of Prep	of Analysis	Units	Measured in Blank	Acceptance Range	Quantitation Level**	Units	Value	Value	Recovered	Range (%)	Range (mg/kg)
yanide, Total	18-Jun-96	20-Jun-96	ug/L	< 20	< 20	20	ug/L	400	43.5	10.9	10-100	
I (Laboratory)	12-Jun-96	12-Jun-96	pH/units	NA	NA	NA	pH units	7.00	6.99	99.9	80-120	
nitability (Flash Point)	19-Jun-96	19-Jun-96	°C	NA	NA	25	°C	27.0	28.0	104	80-120	
:activity - Sulfide	12-Jun-96	12-Jun-96	mg/L	< 27	< 27	27	mg	8.79	7.27	82.7	50-150	

Practical quantitation level is the lowest concentration measurable for samples with normal chemical and physical composition during routine laboratory operations.

ATA QUALITY COMMENTS:
sults of all quality control measurements are within the laboratory and method specified acceptance range except as noted.

0000019

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

GRO by GC Method 8015M

Water Matrix

CHRONOLOGY

KAS Sample Nos.	Date Received	Date Analyzed	KAS Sample Nos.	Date Received	Date Analyzed
WM1184-1	06/11/96	06/13/96			

METHOD BLANK RESULTS*

Compound	Conc. (mg/L)

* Only positive hits have been included.
The remaining compounds were below the PQL.

Client:Roy F.Weston , Work Order:WM1184

6/17/96

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Laboratory Control Sample Results

GRO by GC Method: 8015M

Water Matrix

Date of Analysis: 06/13/96

Compound	Units	Spike Conc.	LCS Measured Conc.	LSC Dup. Measured Conc.	LCS % Recovery	LSC Dup. % Recovery	Recovery Acceptance Range (%)*	RPD (%)	RPD Acceptance Range (%)*
Gasoline Range Organics	ug/L	100	116	NR	116	NR	60-140	NR	0-20
4-BFB	ug/L	20	20	NR	100	NR	60-140	NR	0-20

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sets employed for organic analyses.

NR= Not Required

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

DRO by GC Method: 8015M-DRO

WATER

Method Blank: BF0075

CHRONOLOGY

KAS Sample Nos.	Date Extracted	Date Analyzed	DF~	KAS Sample Nos.	Date Extracted	Date Analyzed	DF~
WM1184-1	06/13/96	06/16/96	10				

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Blank results listed correspond to the extraction blank prepared with the above samples on date of extraction.
Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Laboratory Control Sample Results

DRO by GC Method: 8015M

Water Matrix

Date of Extraction: 6/13/96
LCS number: LCF0075
Date of Analysis: 6/14/96

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS Dup. Measured Conc.	LCS % Recovery	LCS Dup. % Recovery	Recovery Acceptance Range (%)*	RPD (%)	RPD Acceptance Range (%)*
DRO Components	ug/L	500	400	NA	80	NA	60-140	NA	0-20

NA = Not Applicable

Client:
Work Order:

6/14/96

Katahdin Analytical Services
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

Pesticides/PCB's by GC Method:	8081
Sample Preparation Technique:	3510

Water Matrix

CHRONOLOGY

KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~	KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~
WM1184-1	6/13/96	6/14/96	JU1A085	1.0					

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

00000024

Katahdin Analytical Services, Inc.
Quality Control Report

Laboratory Control Spike/Laboratory Control Spike Duplicate Results

Client:	
Work Order:	

Pesticides/PCBs by GC Method: 8081
Sample Preparation Technique: 3510
Water Matrix

Date of Extraction: 6/13/96 Sample: LCP0061
Date of Analysis: 6/14/96 Files: JU1A085.rst

Compound	Spike Added (ug/L)	LCS Concentration (ug/L)	LCSD Concentration (ug/L)	LCS % Recovery	LCSD % Recovery	Acceptance Range (%)*	RPD (%)	QC Limits RPD*
4,4'-DDD	0.6	0.537	N/A	90	N/A	31-141	N/A	0-30
4,4'-DDE	0.6	0.520	N/A	87	N/A	30-145	N/A	0-30
4,4'-DDT	0.6	0.533	N/A	89	N/A	25-160 ^	N/A	0-36 ^
Aldrin	0.6	0.467	N/A	78	N/A	47-104 ^	N/A	0-29 ^
alpha-BHC	0.6	0.484	N/A	81	N/A	37-134	N/A	0-30
beta-BHC	0.6	0.520	N/A	87	N/A	17-147	N/A	0-30
delta-BHC	0.6	0.508	N/A	85	N/A	19-140	N/A	0-30
Dieldrin	0.6	0.550	N/A	92	N/A	68-127 ^	N/A	0-24 ^
Endosulfan I	0.6	0.499	N/A	83	N/A	45-153	N/A	0-30
Endosulfan II	0.6	0.533	N/A	89	N/A	D-202	N/A	0-30
Endosulfan Sulfate	0.6	0.579	N/A	97	N/A	26-144	N/A	0-30
Endrin	0.6	0.515	N/A	86	N/A	66-135 ^	N/A	0-21 ^
Endrin Aldehyde	0.6	0.540	N/A	90	N/A	**	N/A	0-30
Endrin Ketone	0.6	0.591	N/A	99	N/A	**	N/A	0-30
gamma-BHC (Lindane)	0.6	0.506	N/A	84	N/A	58-131 ^	N/A	0-24 ^
Heptachlor	0.6	0.475	N/A	79	N/A	49-121 ^	N/A	0-19 ^
Heptachlor Epoxide	0.6	0.536	N/A	89	N/A	37-142	N/A	0-30
Methoxychlor	0.6	0.539	N/A	90	N/A	**	N/A	0-30

* Acceptance range as specified in EPA Method 8081; insufficient laboratory data are available to generate statistically based limits.

^ The laboratory uses the internally established 99% confidence ranges and relative percent difference (RPD) as the acceptance criteris for this LCS/LCSD.

** EPA method 8081 does not specify acceptance criteria for this compound; insufficient laboratory data are available to generate statistically based limits.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1184

Methods, Chronology of Analysis and Method Blank Results

Volatile Analysis by GC/MS Method: 8260

Water Matrix

CHRONOLOGY

Sample Nos.	Date Analyzed	LCS File	Dilution Factor ~	Sample Nos.	Date Analyzed	LCS File	Dilution Factor
WM1184-2	17-Jun-96	F7183	1.0				

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)
Acetone	J3.5
4-chlorotoluene	J0.6
1,3-Dichlorobenzene	J0.8
1,4-Dichlorobenzene	J0.6
n-butylbenzene	J0.5
naphthalene	1.0
1,2,3-trichlorobenzene	J0.6

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1184

Methods, Chronology of Analysis and Method Blank Results

Volatile Analysis by GC/MS Method: 8260A

Water Matrix

CHRONOLOGY

Sample Nos.	Date Analyzed	LCS File	Dilution Factor ~	Sample Nos.	Date Analyzed	LCS File	Dilution Factor
WM1184-1DL	18-Jun-96	F7213	20.0				

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)
Acetone	3.2
Methylene Chloride	J0.8
M+P-Xylene	J0.5
1,3-Dichlorobenzene	J0.7
n-butylbenzene	J0.6
Naphthalene	1.0
1,2,3-Trichlorobenzene	J0.5

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1184

Laboratory Control Sample Results

Volatile Organics by GC/MS Method: 8260

Water Matrix

Date of Analysis: 06/17/96 Files: F7183.D

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS % Recovery	Recovery Acceptance Range (%)*
1,1-Dichloroethene	ug/l	50	49.1	98	53-136
Trichloroethene	ug/l	50	48.1	96	76-119
Benzene	ug/l	50	49.8	100	78-128
Toluene	ug/l	50	50.4	101	75-121
Chlorobenzene	ug/l	50	50.9	102	74-125

* The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1184

Laboratory Control Sample Results

Volatile Organics by GC/MS Method: 8260

Water Matrix

Date of Analysis: 06/18/96 Files: F7213.D

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS % Recovery	Recovery Acceptance Range (%)*
1,1-Dichloroethene	ug/l	50	55.9	112	53-136
Trichloroethene	ug/l	50	52.6	105	76-119
Benzene	ug/l	50	53.1	106	78-128
Toluene	ug/l	50	52.6	105	75-121
Chlorobenzene	ug/l	50	51.7	103	74-125

* The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400

CHAIN of CUSTODY

* PLEASE PRINT IN PEN

Client	Contact	Phone #	Fax #
Roy F. Weston	Bill Dale	(508) 772-7196	(508) 772-7251

Address 88 Pine St City Fort Devens State MA Zip Code 01433

P.O. # LL-2271-A1 Proj. Name/No. Fort Devens, Various Removal Actions / 03886-118-004-0209-00

Bill (if different than above) 7 Eagle Square Address Concord, NH 03301

Sample (Print/Sign) William P. Dale / William P. Dale Copies To: John Lovely

LAB USE ONLY WORK ORDER #: WM1184

KATAHDIN PROJECT MANAGER _____

REMARKS: _____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO: _____

TEMP°C 5.2 ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date/Time coll'd	Matrix	Filt. Y/N	No. of Cntrs.	8080 Pest/PCB 2@1 Liter (4°C) *	8260 Volatiles 2x40 ml (HCl)	8015 DRO/GRO 2x1 Liter 4x40ml (HCl)	RCRA METALS 1 x Poly (HNO3)	Ignitability, Reactivity, Corrosivity *
1	(1) ~~LQ-1~~ LQ-01	6-11-96/1030	Liquid	N		X	X	X	X	X
2	TRIP BLANK	/					X			
		/								
		/								
		/								
		/								
		/								
		/								
		/								
		/								

(1) Per client conversation 6/12/96 LW → Bill Dale

FINAL PAGE

COMMENTS * RUN Ignitability, Reactivity, & Corrosivity out of 8080 jar

7 day TAT

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
William P. Dale	1530	Federal Express		6/12/96 1129	
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)

ATTACHMENT E

AOC 43G

SAND AND GAS TRAP - AREA 3
FIELD SCREEN LABORATORY ANALYTICAL
ROY F. WESTON, INC.

Samples collected July 1, 1996

PRELIMINARY RESULTS FOR WESTON, INC.

SAMPLES PROVIDED TO ABB-ES FOR VPH/EPH ANALYSIS.

SAMPLE ID	VPH(PPM)	EPH(PPM)
43G3-A	BRL,<6.56	BRL,<53
43G3-B	BRL,<6.50	BRL,<52
43G3-C	BRL,<6.44	BRL,<52
43G3-D	BRL,<6.69	BRL,<54
43G3-E	190	130
43G3-F	58	63
43G3-G	BRL,<6.75	BRL,<54
43G3-X	310	60

BRL=Below reporting limit, reporting limit is 6.25ppm for VPH and 50ppm for EPH adjusted for dilution and percent solids of the samp le.

Russell A Burdick.
Agent of ABBES

ENVIRONMENTAL SAMPLING SUPPLY

LOT # 03886-118-004-0209-01
SAMPLE ID 4363-E
SAMPLED BY Bill Dale
DATE 7/1/96
TIME 1330
LOCATION 4363-E
PRESERVATIVE —
ANALYSIS VPH-EPH (mod)
CLIENT CENED

9601 San Leandro Street, Oakland, California 94603
(510) 562-4988 (800) 233-8425

ENVIRONMENTAL SAMPLING SUPPLY

LOT # 03886-118-004-0209-01
SAMPLE ID 4363-F
SAMPLED BY Bill Dale
DATE 7/1/96
TIME 1338
LOCATION 4363-F
PRESERVATIVE —
ANALYSIS VPH-EPH (mod)
CLIENT CENED

9601 San Leandro Street, Oakland, California 94603
(510) 562-4988 (800) 233-8425

ENVIRONMENTAL SAMPLING SUPPLY

LOT # 03886-118-004-0209-01
SAMPLE ID 4363-G
SAMPLED BY Bill Dale
DATE 7/1/96
TIME 1342
LOCATION 4363-G
PRESERVATIVE —
ANALYSIS VPH-EPH (mod)
CLIENT CENED

9601 San Leandro Street, Oakland, California 94603
(510) 562-4988 (800) 233-8425

ENVIRONMENTAL SAMPLING SUPPLY

LOT # 03886-118-004-0209-01
SAMPLE ID 4363-X
SAMPLED BY Bill Dale
DATE 7/1/96
TIME 1348
LOCATION 4363-X
PRESERVATIVE —
ANALYSIS VPH-EPH (mod)
CLIENT CENED

9601 San Leandro Street, Oakland, California 94603
(510) 562-4988 (800) 233-8425

ENVIRONMENTAL SAMPLING SUPPLY

LOT # 03886-118-004-
SAMPLE ID 4363-A
SAMPLED BY Bill Dale
DATE 7/
TIME 1305
LOCATION 4363-A
PRESERVATIVE —
ANALYSIS VPH-EPH (mod)
CLIENT CENED

9601 San Leandro Street, Oakland, California
(510) 562-4988 (800) 233-8425

ENVIRONMENTAL SAMPLING SUPPLY

LOT # 03886-118-004-0209-
SAMPLE ID 4363-AB
SAMPLED BY Bill Dale
DATE 7/1/96
TIME 13
LOCATION 4363-B
PRESERVATI
ANALYSIS VPH-EPH (mod)
CLIENT CEN_D

9601 San Leandro Street, Oakland, California 94603
(510) 562-4988 (800) 233-8425

ENVIRONMENTAL SAMPLING SUPPLY

LOT # 03886-118-004-020
SAMPLE ID 4363-C
SAMPLED BY Bill Dale
DATE 7/1
TIME 1316
LOCATION 4363-C
PRESERVATIVE —
ANALYSIS VPH-EPH (mod)
CLIENT CENED

9601 San Leandro Street, Oakland, California
(510) 562-4988 (800) 233-8425

ENVIRONMENTAL SAMPLING SUPPLY

LOT # 03886-118-004-0209-
SAMPLE ID 4363-D
SAMPLED BY Bill Dale
DATE 7/1/96
TIME 132
LOCATION 4363-D
PRESERVATIVE —
ANALYSIS VPH-EPH (mod)
CLIENT CENE D

9601 San Leandro Street, Oakland, California 94603
(510) 562-4988 (800) 233-8425

ENVIRONMENTAL SCIENCE SERVICES
532 Atwells Avenue
Providence, Rhode Island 02909
(401) 421-0398 Fax (401) 421-5731

CHAIN OF CUSTODY

Page 1 of 1

TURN TIME: ☐ Standard (2 wks.) ☒ Other _____ | ESS-LAB PROJECT ID:

Company Name: Roy F. Weston, Inc	Project No.: 03886-118-004-0209-01	Project Name: Various Removal Actions	# of Cont: 1
Contact Person: Bill Dale	Address: 88 Pine Street		Type: G
City: Devens	State: MA	Zip: 01433	Telephone: (508)-772-7190
Purchase Order Number: N/A		FAX Number: (508) 772-7251	Preserv.: N/A

ESS-LAB Sample No.	Date	Collection Time	COMP.	GRAB	MATRIX	Sample Identification	Analysis Request: EPH, VPH (Fuel)
4363-A	7/1/96	1305	X		S	East Wall	X
4363-B	7/1/96	1311	X		S	EASTERN portion of South Sidewall	X
4363-C	7/1/96	1316	X		S	Western portion of South Sidewall	X
4363-D	7/1/96	1322	X		S	West Wall	X
4363-E	7/1/96	1330	X		S	Western portion of North sidewall	X
4363-F	7/1/96	1338	X		S	Eastern portion of North Sidewall	X
4363-G	7/1/96	1342	X		S	Southern portion of Bottom	X
4363-X	7/1/96	1348	X		S	Northern portion of Bottom	X

Container Type: P-Poly G-Glass S-Sterile V-VOA | Matrix: DW-Drinking Water S-Solid GW-Ground Water WW-Wastewater

Seals Intact: ☐ YES ☐ NO
Cooler Temp: N/A

Comments:

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
William P. Dale	7/1/96 1510	Russell A Burdick	7/01/96 1520				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

ATTACHMENT F

AOC 43G

SAND AND GAS TRAP - AREA 3
CONFIRMATORY LABORATORY ANALYTICAL
ROY F. WESTON, INC.

Samples collected June 28, 1996

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

CLIENT: R.F. Weston
CLIENT PROJECT ID: Fort Devens, Various Removal Actions
ESS PROJECT ID: 962530

Sample Receipt
One solid and two liquid samples were received on June 28, 1996 for the analyses specified on the enclosed Chain of Custody Record.

Analytical Summary
The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. These analyses with these noted observations are in conformance to the Quality Assurance Plan.

No unusual observations noted.

This signed Certificate of Analysis is our approved release of your analytical results. Beginning with this Project Narrative, the entire report has been paginated. The Chain of Custody is the final report page. This report should not be copied except in full without the approval of the laboratory.

End of project narrative.

Phyllis Shiller/Eric Charest
Laboratory Director/QA Manager

7/3/96
Date

000001

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

METALS

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions

ESS Project ID: 962530

Client Sample ID: Rinsate

ESS Sample ID: 962530-01

Date Sampled: NA

Date Reported: 7/3/96

Parameter	Result	Units	MRL	Method
Total Metals				
Aluminum	ND	mg/L	0.2	6010
Antimony	ND	mg/L	0.1	6010
Arsenic	ND	mg/L	0.01	6010
Barium	ND	mg/L	0.2	6010
Beryllium	ND	mg/L	0.01	6010
Cadmium	ND	mg/L	0.005	6010
Calcium	ND	mg/L	0.2	6010
Chromium	ND	mg/L	0.05	6010
Cobalt	ND	mg/L	0.05	6010
Copper	ND	mg/L	0.02	6010
Iron	ND	mg/L	0.1	6010
Lead	ND	mg/L	0.005	6010
Magnesium	ND	mg/L	0.1	6010
Manganese	ND	mg/L	0.03	6010
Mercury	ND	mg/L	0.0005	7470
Nickel	ND	mg/L	0.04	6010
Potassium	ND	mg/L	0.5	6010
Selenium	ND	mg/L	0.1	6010
Silver	ND	mg/L	0.01	6010
Sodium	1.0	mg/L	0.5	6010
Thallium	ND	mg/L	0.1	6010
Vanadium	ND	mg/L	0.05	6010
Zinc	0.01	mg/L	0.01	6010

NA = Not Availabel

ND = Not Detected above Method Reporting Limit (MRL)

000002

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

BASE-NEUTRAL & ACID EXTRACTABLES
EPA 8270 (Page 1 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Action
ESS Project ID: 962530

Client Sample ID: Rinsate
ESS Sample ID: 962530-01

Date Sampled: NA
Date Extracted: 7/1/96

Date Analyzed: 7/2/96
Dilution Factor: 1x

Parameter	Result (ug/L)	MRL
N-Nitrosodimethylamine	ND	10
Bis(2-chloroethyl)ether	ND	10
2-Chlorophenol	ND	10
Phenol	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
Benzyl Alcohol	ND	10
Bis(2-chloroisopropyl) ether	ND	10
2-Methylphenol	ND	10
N-nitrosodi-n-propylamine	ND	10
Hexachloroethane	ND	8
4-Methylphenol	ND	10
Nitrobenzene	ND	10
Isophorone	ND	10
2-Nitrophenol	ND	10
Benzoic Acid	ND	50
2,4-Dimethylphenol	ND	10
Bis(2-chloroethoxy) methane	ND	10
2,4-Dichlorophenol	ND	10
1,2,4-Trichlorobenzene	ND	10
Naphthalene	ND	10
4-Chloroaniline	ND	10
Hexachlorobutadiene	ND	10
4-Chloro-3-Methylphenol	ND	10
2-Methylnaphthalene	ND	10
Hexachlorocyclopentadiene	ND	10
2,4,6-Trichlorophenol	ND	10
2,4,5-Trichlorophenol	ND	50
2-Chloronaphthalene	ND	10
Dimethyl phthalate	ND	10
Acenaphthylene	ND	10
2,6-Dinitrotoluene	ND	10
2-Nitroaniline	ND	50

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000003

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

BASE-NEUTRAL & ACID EXTRACTABLES
EPA 8270 (Page 2 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Action
ESS Project ID: 962530

Client Sample ID: Rinsate
ESS Sample ID: 962530-01

Date Sampled: NA
Date Extracted: 7/1/96

Date Analyzed: 7/2/96
Dilution Factor: 1x

Parameter	Result (ug/L)	MRL
Acenaphthene	ND	10
2,4-Dinitrophenol	ND	50
Dibenzofuran	ND	10
4-Nitrophenol	ND	50
3-Nitroaniline	ND	10
2,4-Dinitrotoluene	ND	10
Fluorene	ND	10
Diethyl phthalate	ND	10
4-Chlorophenyl phenyl ether	ND	10
4-Nitroaniline	ND	50
4,6-Dinitro-2-Methylphenol	ND	50
N-nitrosodiphenylamine	ND	10
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	4
Pentachlorophenol	ND	50
Phenanthrene	ND	10
Anthracene	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3-Dichlorobenzidine	ND	20
Benzo(a)anthracene	ND	10
Chrysene	ND	10
Bis(2-ethylhexyl)phthalate	ND	6
Di-n-octylphthalate	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Dibenzo(a,h)anthracene	ND	10
Benzo(ghi)perylene	ND	10

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000004

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 1 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Rinsate
ESS Sample ID: 962530-01

Date Sampled: NA
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/L

Parameter	Result	MRL
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
Methyl tert-Butyl Ether	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Cis-1,2-Dichloroethene	ND	5
2,2-Dichloropropane	ND	10
Bromochloromethane	ND	10
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
1,1-Dichloropropene	ND	10
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	10
Bromodichloromethane	ND	5
Cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
Trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
1,3-Dichloropropane	ND	5
Tetrachloroethene	ND	5
Dibromochloromethane	ND	5

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000005

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 2 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Rinsate
ESS Sample ID: 962530-01

Date Sampled: NA
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/L

Parameter	Result	MRL
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl Benzene	ND	5
Xylenes (Total)	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
1,2,3-Trichloropropane	ND	5
Bromobenzene	ND	10
1,1,2,2-Tetrachloroethane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
Naphthalene	ND	5
1,2,3-Trichlorobenzene	ND	5
Acetone	ND	100
2-Butanone	ND	100
4-Methyl-2-pentanone	ND	50
2-Hexanone	ND	50
Carbon Disulfide	ND	5

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000006

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

METALS

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions

ESS Project ID: 962530

Client Sample ID: Sample

ESS Sample ID: 962530-02

Date Sampled: NA

Date Reported: 7/3/96

Parameter	Result	Units	MRL	Method
Total Metals				
Aluminum	6,650	mg/Kg	20	6010
Antimony	ND	mg/Kg	10	6010
Arsenic	19	mg/Kg	10	6010
Barium	60	mg/Kg	20	6010
Beryllium	ND	mg/Kg	1	6010
Cadmium	ND	mg/Kg	1	6010
Calcium	1,130	mg/Kg	20	6010
Chromium	15	mg/Kg	5	6010
Cobalt	5	mg/Kg	5	6010
Copper	8	mg/Kg	2	6010
Iron	10,100	mg/Kg	10	6010
Lead	ND	mg/Kg	10	6010
Magnesium	3,420	mg/Kg	10	6010
Manganese	102	mg/Kg	3	6010
Mercury	ND	mg/Kg	0.5	7471
Nickel	15	mg/Kg	4	6010
Potassium	917	mg/Kg	10	6010
Selenium	ND	mg/Kg	30	6010
Silver	ND	mg/Kg	1	6010
Sodium	116	mg/Kg	10	6010
Thallium	ND	mg/Kg	10	6010
Vanadium	12	mg/Kg	5	6010
Zinc	39	mg/Kg	1	6010

NA = Not Available

ND = Not Detected above Method Reporting Limit (MRL)

Results reported on a dry weight basis.

000007

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

BASE-NEUTRAL & ACID EXTRACTABLES
EPA 8270 (Page 1 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Sample
ESS Sample ID: 962530-02

Date Sampled: NA
Date Extracted: 7/1/96

Date Analyzed: 7/2/96
Dilution Factor: 1x

Parameter	Result (ug/Kg dry wt.)	MRL
N-Nitrosodimethylamine	ND	351
Bis(2-chloroethyl)ether	ND	351
2-Chlorophenol	ND	351
Phenol	ND	351
1,3-Dichlorobenzene	ND	351
1,4-Dichlorobenzene	ND	351
1,2-Dichlorobenzene	ND	351
Benzyl Alcohol	ND	351
Bis(2-chloroisopropyl) ether	ND	351
2-Methylphenol	ND	351
N-nitrosodi-n-propylamine	ND	351
Hexachloroethane	ND	351
4-Methylphenol	ND	351
Nitrobenzene	ND	351
Isophorone	ND	351
2-Nitrophenol	ND	351
Benzoic Acid	ND	1,760
2,4-Dimethylphenol	ND	351
Bis(2-chloroethoxy) methane	ND	351
2,4-Dichlorophenol	ND	351
1,2,4-Trichlorobenzene	ND	351
Naphthalene	ND	351
4-Chloroaniline	ND	351
Hexachlorobutadiene	ND	351
4-Chloro-3-Methylphenol	ND	351
2-Methylnaphthalene	ND	351
Hexachlorocyclopentadiene	ND	351
2,4,6-Trichlorophenol	ND	351
2,4,5-Trichlorophenol	ND	1,760
2-Chloronaphthalene	ND	351
Dimethyl phthalate	ND	351
Acenaphthylene	ND	351
2,6-Dinitrotoluene	ND	351
2-Nitroaniline	ND	1,760

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000008

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

BASE-NEUTRAL & ACID EXTRACTABLES
EPA 8270 (Page 2 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Sample
ESS Sample ID: 962530-02

Date Sampled: NA
Date Extracted: 7/1/96

Date Analyzed: 7/2/96
Dilution Factor: 1x

Parameter	Result (ug/Kg dry wt.)	MRL
Acenaphthene	ND	351
2,4-Dinitrophenol	ND	1,760
Dibenzofuran	ND	351
4-Nitrophenol	ND	1,760
3-Nitroaniline	ND	351
2,4-Dinitrotoluene	ND	351
Fluorene	ND	351
Diethyl phthalate	ND	351
4-Chlorophenyl phenyl ether	ND	351
4-Nitroaniline	ND	1,760
4,6-Dinitro-2-Methylphenol	ND	1,760
N-nitrosodiphenylamine	ND	351
4-Bromophenyl-phenylether	ND	351
Hexachlorobenzene	ND	351
Pentachlorophenol	ND	1,760
Phenanthrene	ND	351
Anthracene	ND	351
Di-n-butylphthalate	ND	351
Fluoranthene	ND	351
Pyrene	ND	351
Butylbenzylphthalate	ND	351
3,3-Dichlorobenzidine	ND	702
Benzo(a)anthracene	ND	351
Chrysene	ND	351
Bis(2-ethylhexyl)phthalate	**542**	351
Di-n-octylphthalate	ND	351
Benzo(b)fluoranthene	ND	351
Benzo(k)fluoranthene	ND	351
Benzo(a)pyrene	ND	351
Indeno(1,2,3-cd)pyrene	ND	351
Dibenzo(a,h)anthracene	ND	351
Benzo(ghi)perylene	ND	351

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000003

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 1 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Sample
ESS Sample ID: 962530-02

Date Sampled: NA
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/Kg dry wt.

Parameter	Result	MRL
Dichlorodifluoromethane	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
Methyl tert-Butyl Ether	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Cis-1,2-Dichloroethene	ND	5
2,2-Dichloropropane	ND	11
Bromochloromethane	ND	11
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
1,1-Dichloropropene	ND	11
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	11
Bromodichloromethane	ND	5
Cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
Trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
1,3-Dichloropropane	ND	5
Tetrachloroethene	ND	5
Dibromochloromethane	ND	5

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000010

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 2 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Sample
ESS Sample ID: 962530-02

Date Sampled: NA
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/Kg dry wt.

Parameter	Result	MRL
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl Benzene	ND	5
Xylenes (Total)	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
1,2,3-Trichloropropane	ND	5
Bromobenzene	ND	11
1,1,2,2-Tetrachloroethane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
Naphthalene	ND	5
1,2,3-Trichlorobenzene	ND	5
Acetone	ND	106
2-Butanone	ND	106
4-Methyl-2-pentanone	ND	53
2-Hexanone	ND	53
Carbon Disulfide	ND	5

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000011

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 1 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Trip Blank
ESS Sample ID: 962530-03

Date Sampled: NA
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/L

Parameter	Result	MRL
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
Methyl tert-Butyl Ether	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Cis-1,2-Dichloroethene	ND	5
2,2-Dichloropropane	ND	10
Bromochloromethane	ND	10
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
1,1-Dichloropropene	ND	10
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	10
Bromodichloromethane	ND	5
Cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
Trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
1,3-Dichloropropane	ND	5
Tetrachloroethene	ND	5
Dibromochloromethane	ND	5

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000012

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 2 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Trip Blank
ESS Sample ID: 962530-03

Date Sampled: NA
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/L

Parameter	Result	MRL
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl Benzene	ND	5
Xylenes (Total)	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
1,2,3-Trichloropropane	ND	5
Bromobenzene	ND	10
1,1,2,2-Tetrachloroethane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
Naphthalene	ND	5
1,2,3-Trichlorobenzene	ND	5
Acetone	ND	100
2-Butanone	ND	100
4-Methyl-2-pentanone	ND	50
2-Hexanone	ND	50
Carbon Disulfide	ND	5

NA = Not Available
ND = Not Detected above Method Reporting Limit (MRL)

000013

Approved by: _____ Date: 7/3/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

QUALITY CONTROL SECTION

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

ACID AND BASE/NEUTRAL AQUEOUS SURROGATE RECOVERY

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions

ESS Project ID: 962530

SAMPLE ID	2FP#	PHL#	2CP#	TBP#	DCB#	NBZ#	FBP#	TPH#
S0701B2	6545	36%	73%	74%	65%	65%	73%	98%
962530-01	40	34	66	62	47	64	59	98

Column used to flag recovery values with an asterisk when outside QC Limits.

2FP = 2-FLUOROPHENOL (21-110%)
PHL = PHENOL-D5 (10-110%)
2CP = 2-CHLOROPHENOL-D4 (33-110%)
TBP = 2,4,6 TRIBROMOPHENOL (10-123%)
DCB = 1,2-DICHLOROBENZENE-D4 (16-110%)
NBZ = NITROBENZENE-D5 (35-114%)
FBP = 2-FLUOROBIPHENYL (43-116%)
TPH = P-TERPHENYL-D14 (33-141%)

000015

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

BASE-NEUTRAL & ACID EXTRACTABLES
EPA 8270 (Page 1 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Action
ESS Project ID: 962530

Client Sample ID: Method Blank
ESS Sample ID: S0701B2

Date Sampled: N/A
Date Extracted: 7/1/96

Date Analyzed: 7/2/96
Dilution Factor: 1x

Parameter	Result (ug/L)	MRL
N-Nitrosodimethylamine	ND	10
Bis(2-chloroethyl)ether	ND	10
2-Chlorophenol	ND	10
Phenol	ND	10
1,3-Dichlorobenzene	ND	10
1,4-Dichlorobenzene	ND	10
1,2-Dichlorobenzene	ND	10
Benzyl Alcohol	ND	10
Bis(2-chloroisopropyl) ether	ND	10
2-Methylphenol	ND	10
N-nitrosodi-n-propylamine	ND	10
Hexachloroethane	ND	8
4-Methylphenol	ND	10
Nitrobenzene	ND	10
Isophorone	ND	10
2-Nitrophenol	ND	10
Benzoic Acid	ND	50
2,4-Dimethylphenol	ND	10
Bis(2-chloroethoxy) methane	ND	10
2,4-Dichlorophenol	ND	10
1,2,4-Trichlorobenzene	ND	10
Naphthalene	ND	10
4-Chloroaniline	ND	10
Hexachlorobutadiene	ND	10
4-Chloro-3-Methylphenol	ND	10
2-Methylnaphthalene	ND	10
Hexachlorocyclopentadiene	ND	10
2,4,6-Trichlorophenol	ND	10
2,4,5-Trichlorophenol	ND	50
2-Chloronaphthalene	ND	10
Dimethyl phthalate	ND	10
Acenaphthylene	ND	10
2,6-Dinitrotoluene	ND	10
2-Nitroaniline	ND	50

N/A = Not Applicable
ND = Not Detected above Method Reporting Limit (MRL)

000016

Approved by: _____ Date: 7/8/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

BASE-NEUTRAL & ACID EXTRACTABLES
EPA 8270 (Page 2 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Action
ESS Project ID: 962530

Client Sample ID: Method Blank
ESS Sample ID: S0701B2

Date Sampled: N/A
Date Extracted: 7/1/96

Date Analyzed: 7/2/96
Dilution Factor: 1x

Parameter	Result (ug/L)	MRL
Acenaphthene	ND	10
2,4-Dinitrophenol	ND	50
Dibenzofuran	ND	10
4-Nitrophenol	ND	50
3-Nitroaniline	ND	10
2,4-Dinitrotoluene	ND	10
Fluorene	ND	10
Diethyl phthalate	ND	10
4-Chlorophenyl phenyl ether	ND	10
4-Nitroaniline	ND	50
4,6-Dinitro-2-Methylphenol	ND	50
N-nitrosodiphenylamine	ND	10
4-Bromophenyl-phenylether	ND	10
Hexachlorobenzene	ND	4
Pentachlorophenol	ND	50
Phenanthrene	ND	10
Anthracene	ND	10
Di-n-butylphthalate	ND	10
Fluoranthene	ND	10
Pyrene	ND	10
Butylbenzylphthalate	ND	10
3,3-Dichlorobenzidine	ND	20
Benzo(a)anthracene	ND	10
Chrysene	ND	10
Bis(2-ethylhexyl)phthalate	ND	6
Di-n-octylphthalate	ND	10
Benzo(b)fluoranthene	ND	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Dibenzo(a,h)anthracene	ND	10
Benzo(ghi)perylene	ND	10

N/A = Not Applicable
ND = Not Detected above Method Reporting Limit (MRL)

000017

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

ACID AND BASE/NEUTRAL SOIL SURROGATE RECOVERY

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions

ESS Project ID: 962530

SAMPLE ID	2FP#	PHL#	2CP#	TBP#	DCB#	NBZ#	FBP#	TPH#
S0701B4	58%	56%	52%	88%	56%	62%	64%	60%
962530-02	65	70	72	83	70	64	84	54

Column used to flag recovery values with an asterisk when outside QC Limits.

2FP = 2-FLUOROPHENOL (25-121%)
PHL = PHENOL-D5 (24-113%)
2CP = 2-CHLOROPHENOL-D4 (20-130%)
TBP = 2,4,6 TRIBROMOPHENOL (19-122%)
DCB = 1,2-DICHLOROBENZENE-D4 (20-130%)
NBZ = NITROBENZENE-D5 (23-120%)
FBP = 2-FLUOROBIPHENYL (30-115%)
TPH = P-TERPHENYL-D14 (18-137%)

000018

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

BASE-NEUTRAL & ACID EXTRACTABLES
EPA 8270 (Page 1 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Method Blank
ESS Sample ID: S0701B4

Date Sampled: N/A
Date Extracted: 7/1/96

Date Analyzed: 7/2/96
Dilution Factor: 1x

Parameter	Result (ug/Kg dry wt.)	MRL
N-Nitrosodimethylamine	ND	330
Bis(2-chloroethyl)ether	ND	330
2-Chlorophenol	ND	330
Phenol	ND	330
1,3-Dichlorobenzene	ND	330
1,4-Dichlorobenzene	ND	330
1,2-Dichlorobenzene	ND	330
Benzyl Alcohol	ND	330
Bis(2-chloroisopropyl) ether	ND	330
2-Methylphenol	ND	330
N-nitrosodi-n-propylamine	ND	330
Hexachloroethane	ND	330
4-Methylphenol	ND	330
Nitrobenzene	ND	330
Isophorone	ND	330
2-Nitrophenol	ND	330
Benzoic Acid	ND	1,650
2,4-Dimethylphenol	ND	330
Bis(2-chloroethoxy) methane	ND	330
2,4-Dichlorophenol	ND	330
1,2,4-Trichlorobenzene	ND	330
Naphthalene	ND	330
4-Chloroaniline	ND	330
Hexachlorobutadiene	ND	330
4-Chloro-3-Methylphenol	ND	330
2-Methylnaphthalene	ND	330
Hexachlorocyclopentadiene	ND	330
2,4,6-Trichlorophenol	ND	330
2,4,5-Trichlorophenol	ND	1,650
2-Chloronaphthalene	ND	330
Dimethyl phthalate	ND	330
Acenaphthylene	ND	330
2,6-Dinitrotoluene	ND	330
2-Nitroaniline	ND	1,650

N/A = Not Applicable
ND = Not Detected above Method Reporting Limit (MRL)

000019

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

BASE-NEUTRAL & ACID EXTRACTABLES
EPA 8270 (Page 2 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Method Blank
ESS Sample ID: S0701B4

Date Sampled: N/A
Date Extracted: 7/1/96

Date Analyzed: 7/2/96
Dilution Factor: 1x

Parameter	Result (ug/Kg dry wt.)	MRL
Acenaphthene	ND	330
2,4-Dinitrophenol	ND	1,760
Dibenzofuran	ND	330
4-Nitrophenol	ND	1,760
3-Nitroaniline	ND	330
2,4-Dinitrotoluene	ND	330
Fluorene	ND	330
Diethyl phthalate	ND	330
4-Chlorophenyl phenyl ether	ND	330
4-Nitroaniline	ND	1,760
4,6-Dinitro-2-Methylphenol	ND	1,760
N-nitrosodiphenylamine	ND	330
4-Bromophenyl-phenylether	ND	330
Hexachlorobenzene	ND	330
Pentachlorophenol	ND	1,760
Phenanthrene	ND	330
Anthracene	ND	330
Di-n-butylphthalate	ND	330
Fluoranthene	ND	330
Pyrene	ND	330
Butylbenzylphthalate	ND	330
3,3-Dichlorobenzidine	ND	660
Benzo(a)anthracene	ND	330
Chrysene	ND	330
Bis(2-ethylhexyl)phthalate	ND	330
Di-n-octylphthalate	ND	330
Benzo(b)fluoranthene	ND	330
Benzo(k)fluoranthene	ND	330
Benzo(a)pyrene	ND	330
Indeno(1,2,3-cd)pyrene	ND	330
Dibenzo(a,h)anthracene	ND	330
Benzo(ghi)perylene	ND	330

N/A = Not Applicable
ND = Not Detected above Method Reporting Limit (MRL)

000020

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS AQUEOUS SURROGATE RECOVERY

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions

ESS Project ID: 962530

SAMPLE	DCE#	TOL#	BFB#
V0702B1	97%	100%	103%
962530-01	95	100	100
962530-03	98	101	103

Column to be used to flag recovery values with an asterisk when outside the quality control range.

DCE = 1,2 DICHLOROETHANE-D4 (76-114%)
TOL = TOLUENE-D8 (86-110%)
BFB = BROMOFLUOROBENZENE (86-115%)

000021

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 1 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Method Blank
ESS Sample ID: V0702B1

Date Sampled: N/A
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/L

Parameter	Result	MRL
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
Methyl tert-Butyl Ether	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Cis-1,2-Dichloroethene	ND	5
2,2-Dichloropropane	ND	10
Bromochloromethane	ND	10
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
1,1-Dichloropropene	ND	10
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	10
Bromodichloromethane	ND	5
Cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
Trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
1,3-Dichloropropane	ND	5
Tetrachloroethene	ND	5
Dibromochloromethane	ND	5

N/A = Not Applicable
ND = Not Detected above Method Reporting Limit (MRL)

000022

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 2 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Method Blank
ESS Sample ID: V0702B1

Date Sampled: N/A
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/L

Parameter	Result	MRL
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl Benzene	ND	5
Xylenes (Total)	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
1,2,3-Trichloropropane	ND	5
Bromobenzene	ND	10
1,1,2,2-Tetrachloroethane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
Naphthalene	ND	5
1,2,3-Trichlorobenzene	ND	5
Acetone	ND	100
2-Butanone	ND	100
4-Methyl-2-pentanone	ND	50
2-Hexanone	ND	50
Carbon Disulfide	ND	5

N/A = Not Applicable
ND = Not Detected above Method Reporting Limit (MRL)

000023

Approved by: _____ Date: 7/6/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS SOIL SURROGATE RECOVERY

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions

ESS Project ID: 962530

SAMPLE	DCE#	TOL#	BFB#
V0702B1	100%	102%	102%
962530-02	99	109	88

Column to be used to flag recovery values with an asterisk when outside the quality control range.

DCE = 1,2 DICHLOROETHANE-D4 (70-121%)
TOL = TOLUENE-D8 (81-117%)
BFB = BROMOFLUOROBENZENE (74-121%)

000024

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 1 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Method Blank
ESS Sample ID: V0702B1

Date Sampled: N/A
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/Kg dry wt.

Parameter	Result	MRL
Dichlorodifluoromethane	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5
1,1-Dichloroethene	ND	5
Methylene Chloride	ND	5
Methyl tert-Butyl Ether	ND	5
Trans-1,2-Dichloroethene	ND	5
1,1-Dichloroethane	ND	5
Cis-1,2-Dichloroethene	ND	5
2,2-Dichloropropane	ND	10
Bromochloromethane	ND	10
Chloroform	ND	5
1,1,1-Trichloroethane	ND	5
1,1-Dichloropropene	ND	10
Carbon Tetrachloride	ND	5
Benzene	ND	5
1,2-Dichloroethane	ND	5
Trichloroethene	ND	5
1,2-Dichloropropane	ND	5
Dibromomethane	ND	10
Bromodichloromethane	ND	5
Cis-1,3-Dichloropropene	ND	5
Toluene	ND	5
Trans-1,3-Dichloropropene	ND	5
1,1,2-Trichloroethane	ND	5
1,3-Dichloropropane	ND	5
Tetrachloroethene	ND	5
Dibromochloromethane	ND	5

N/A = Not Applicable
ND = Not Detected above Method Reporting Limit (MRL)

000025

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 467-6454 Fax (401) 467-2398

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

VOLATILE ORGANICS
Method 8260 (Page 2 of 2)

Client: R.F. Weston

Client Project ID: Fort Devens, Various Removal Actions
ESS Project ID: 962530

Client Sample ID: Method Blank
ESS Sample ID: V0702B1

Date Sampled: N/A
Dilution Factor: 1x

Date Analyzed: 7/2/96
Units: ug/Kg dry wt.

Parameter	Result	MRL
1,2-Dibromoethane	ND	5
Chlorobenzene	ND	5
1,1,1,2-Tetrachloroethane	ND	5
Ethyl Benzene	ND	5
Xylenes (Total)	ND	5
Styrene	ND	5
Bromoform	ND	5
Isopropylbenzene	ND	5
1,2,3-Trichloropropane	ND	5
Bromobenzene	ND	10
1,1,2,2-Tetrachloroethane	ND	5
n-Propylbenzene	ND	5
2-Chlorotoluene	ND	5
4-Chlorotoluene	ND	5
1,3,5-Trimethylbenzene	ND	5
tert-Butylbenzene	ND	5
1,2,4-Trimethylbenzene	ND	5
sec-Butylbenzene	ND	5
1,3-Dichlorobenzene	ND	5
4-Isopropyltoluene	ND	5
1,4-Dichlorobenzene	ND	5
n-Butylbenzene	ND	5
1,2-Dichlorobenzene	ND	5
1,2-Dibromo-3-chloropropane	ND	5
1,2,4-Trichlorobenzene	ND	5
Hexachlorobutadiene	ND	5
Naphthalene	ND	5
1,2,3-Trichlorobenzene	ND	5
Acetone	ND	100
2-Butanone	ND	100
4-Methyl-2-pentanone	ND	50
2-Hexanone	ND	50
Carbon Disulfide	ND	5

N/A = Not Applicable
ND = Not Detected above Method Reporting Limit (MRL)

000026

Approved by: _____ Date: 7/5/96

195 Frances Avenue, Cranston, RI 02910-2211 Tel. (401) 467-6454 Fax (401) 467-2398

ENVIRONMENTAL SCIENCE SERVICES
532 Atwells Avenue
Providence, Rhode Island 02909
(401) 421-0398 Fax (401) 421-5731

CHAIN OF CUSTODY

Page 1 of 1

03086-118-004

TURN TIME: ☐ Standard (2 wks.) ☒ Other Tuesday after 5

ESS-LAB PROJECT ID: 960530

Company Name	Project No.	Project Name
Roy F. Weston, Inc.	0204-01	Fort Devens, Various Removal Actions

Contact Person	Address
Bill Dale	88 Pine St. Bldg 207

City	State	Zip	Telephone
Devens	MA	01433	508-772-7104

Purchase Order Number	FAX Number
	508-772-7251

ESS-LAB Sample No.	Date	Collection Time	COMP.	GRAB	MATRIX	Sample Identification	# of Cont.	Analysis Request: 8260	8270	23 TAL METALS
							Type: G			
							Preserv:			
43G3-B5B	6/28/96	1445		X	S	Grab Sample Excavation bottom "HOT"		X		
43G3-B5C	6/28/96	1446	X		S	Composite Sample Excavation bottom "HOT"			X	X
ER4366-28	6/28/96	1440		X	L	Equipment Rinsate		X	X	X
Trip Blank	— Not applicable —					Trip Blanks		X		

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: DW-Drinking Water S-Solid GW-Ground Water WW-Wastewater

Seals Intact: ☐ YES ☐ NO

Cooler Temp: _____

Comments: Temperature 4°C

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
William P. Dale	6/28 1513	[signature]	6/28 1515				
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

420000

ATTACHMENT G

AOC 43G

SAND AND GAS TRAP - AREA 3
CONFIRMATORY LABORATORY ANALYTICAL
ROY F. WESTON, INC.

Samples collected July 10, 1996

ALPHA ANALYTICAL LABORATORIES

Eight Walkup Drive
Westborough, Massachusetts 01581-1019
(508) 898-9220

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

CERTIFICATE OF ANALYSIS

Client: Roy F. Weston, Inc.
Address: 88 Pine Street
Fort Devens, MA 01433
Attn: Tom Abdella
Project Number: 03886-118-004-0209-01
Site: AOC43G AREA 3

Laboratory Job Number: L9604709
Invoice Number: 84957
Date Received: 10-JUL-96
Date Reported: 17-JUL-96
Delivery Method: Alpha

ALPHA SAMPLE NUMBER	CLIENT IDENTIFICATION	SAMPLE LOCATION
L9604709-01	43G3-X1	Fort Devens, MA
L9604709-02	43G3-G1	Fort Devens, MA
L9604709-03	43G-RINSE	Fort Devens, MA
L9604709-04	43G3-E1	Fort Devens, MA
L9604709-05	43G3-F1	Fort Devens, MA
L9604709-06	43G3-A1	Fort Devens, MA
L9604709-07	43G3-B1	Fort Devens, MA
L9604709-08	43G3-C1	Fort Devens, MA
L9604709-09	43G3-D1	Fort Devens, MA
L9604709-10	TRIP BLANK	Fort Devens, MA
L9604709-11	43G3-FID	Fort Devens, MA

Authorized by: James R. Roth

James R. Roth, PhD - Laboratory Manager

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-01
43G3-X1
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial,1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS
Solids, Total	91.	%	0.10	3	2540B		15-Jul
Volatile Petroleum Hydrocarbon				39	Draft 1.0		16-Jul
C5-C8 Aliphatics	1600	ug/kg	100.				
C9-C12 Aliphatics	24100	ug/kg	100.				
C9-C10 Aromatics	9870	ug/kg	100.				
----------	-						
C5-C8 Aliphatics, Equiv.	802.	ug/kg	50.0				
C9-C12 Aliphatics, Equiv.	1210	ug/kg	5.00				
C9-C10 Aromatics, Equiv.	9870	ug/kg	100.				
VPH, Total	11900	ug/kg	100.				
----------	-						
Benzene	ND	ug/kg	100.				
Toluene	ND	ug/kg	100.				
Ethylbenzene	ND	ug/kg	100.				
p/m-Xylene	ND	ug/kg	100.				
o-Xylene	ND	ug/kg	100.				
Methyl tert butyl ether	ND	ug/kg	100.				
Naphthalene	235.	ug/kg	100.				
1,2,4-Trimethylbenzene	ND	ug/Kg	100.				
SURROGATE RECOVERY							
2,5-Dibromotoluene	80.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-01
43G3-X1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Extractable Petroleum Hydrocarbon				40	Draft 1.0	12-Jul	16-Jul	DB
C9-C18 Aliphatics	35200	ug/kg	500.					
C19-C36 Aliphatics	187000	ug/kg	500.					
C10-C22 Aromatics	ND	ug/kg	500.					
----------	-							
C9-C18 Aliphatics, Equiv.	1760	ug/kg	25.0					
C19-C36 Aliphatics, Equiv.	934.	ug/kg	2.50					
C10-C22 Aromatics, Equiv.	ND	ug/kg	500.					
EPH, Total	2750	ug/kg	500.					
----------	-							
Acenaphthene	ND	ug/kg	360.					
Acenaphthylene	ND	ug/kg	240.					
Anthracene	ND	ug/kg	220.					
Benzo(a)anthracene	ND	ug/kg	100.					
Benzo(a)pyrene	ND	ug/kg	270.					
Benzo(b)fluoranthene	ND	ug/kg	450.					
Benzo(ghi)perylene	ND	ug/kg	310.					
Benzo(k)fluoranthene	ND	ug/kg	40.0					
Chrysene	ND	ug/kg	170.					
Dibenzo(a,h)anthracene	ND	ug/kg	200.					
Fluoranthene	ND	ug/kg	160.					
Fluorene	ND	ug/kg	200.					
Indeno(1,2,3-c,d)pyrene	ND	ug/kg	170.					
Naphthalene	ND	ug/kg	190.					
Phenanthrene	ND	ug/kg	170.					
Pyrene	ND	ug/kg	240.					
2-Methylnaphthalene	ND	ug/kg	160.					
SURROGATE RECOVERY								
Chloro-octadecane	64.0	%						
o-Terphenyl	103.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-02
43G3-G1
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial,1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS
Solids, Total	92.	%	0.10	3	2540B		15-Jul
Volatile Petroleum Hydrocarbon				**39**	**Draft 1.0**	**16-Jul**	**16-Jul**
C5-C8 Aliphatics	9170	ug/kg	100.				
C9-C12 Aliphatics	3580	ug/kg	100.				
C9-C10 Aromatics	ND	ug/kg	100.				
----------	-						
C5-C8 Aliphatics, Equiv.	4590	ug/kg	50.0				
C9-C12 Aliphatics, Equiv.	179.	ug/kg	5.00				
C9-C10 Aromatics, Equiv.	ND	ug/kg	100.				
VPH, Total	4850	ug/kg	100.				
----------	-						
Benzene	ND	ug/kg	100.				
Toluene	ND	ug/kg	100.				
Ethylbenzene	ND	ug/kg	100.				
p/m-Xylene	ND	ug/kg	100.				
o-Xylene	ND	ug/kg	100.				
Methyl tert butyl ether	ND	ug/kg	100.				
Naphthalene	ND	ug/kg	100.				
1,2,4-Trimethylbenzene	ND	ug/Kg	100.				
SURROGATE RECOVERY							
2,5-Dibromotoluene	82.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-02
43G3-G1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Extractable Petroleum Hydrocarbon				40	Draft 1.0	12-Jul	16-Jul	DB
C9-C18 Aliphatics	ND	ug/kg	500.					
C19-C36 Aliphatics	ND	ug/kg	500.					
C10-C22 Aromatics	ND	ug/kg	500.					
----------	-							
C9-C18 Aliphatics, Equiv.	ND	ug/kg	25.0					
C19-C36 Aliphatics, Equiv.	ND	ug/kg	2.50					
C10-C22 Aromatics, Equiv.	ND	ug/kg	500.					
EPH, Total	ND	ug/kg	500.					
----------	-							
Acenaphthene	ND	ug/kg	360.					
Acenaphthylene	ND	ug/kg	240.					
Anthracene	ND	ug/kg	220.					
Benzo(a)anthracene	ND	ug/kg	100.					
Benzo(a)pyrene	ND	ug/kg	270.					
Benzo(b)fluoranthene	ND	ug/kg	450.					
Benzo(ghi)perylene	ND	ug/kg	310.					
Benzo(k)fluoranthene	ND	ug/kg	40.0					
Chrysene	ND	ug/kg	170.					
Dibenzo(a,h)anthracene	ND	ug/kg	200.					
Fluoranthene	ND	ug/kg	160.					
Fluorene	ND	ug/kg	200.					
Indeno(1,2,3-c,d)pyrene	ND	ug/kg	170.					
Naphthalene	ND	ug/kg	190.					
Phenanthrene	ND	ug/kg	170.					
Pyrene	ND	ug/kg	240.					
2-Methylnaphthalene	ND	ug/kg	160.					
SURROGATE RECOVERY								
Chloro-octadecane	70.0	%						
o-Terphenyl	98.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-03
43G-RINSE
Sample Matrix: WATER

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 2 Vial,2 Amber Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS
Volatile Petroleum Hydrocarbon				39	Draft 1.0		15-Jul
C5-C8 Aliphatics	20.0	ug/l	20.0				
C9-C12 Aliphatics	ND	ug/l	20.0				
C9-C10 Aromatics	ND	ug/l	20.0				
----------	-						
C5-C8 Aliphatics, Equiv.	10.0	ug/l	10.0				
C9-C12 Aliphatics, Equiv.	ND	ug/l	1.00				
C9-C10 Aromatics, Equiv.	ND	ug/l	20.0				
VPH, Total	ND	ug/l	20.0				
----------	-						
Benzene	ND	ug/l	20.0				
Toluene	ND	ug/l	20.0				
Ethylbenzene	ND	ug/l	20.0				
p/m-Xylene	ND	ug/l	20.0				
o-Xylene	ND	ug/l	20.0				
Methyl tert butyl ether	ND	ug/l	20.0				
Naphthalene	ND	ug/l	20.0				
1,2,4-Trimethylbenzene	ND	ug/l	20.0				
SURROGATE RECOVERY							
2,5-Dibromotoluene	92.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-03
43G-RINSE

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Extractable Petroleum Hydrocarbon				40	Draft 1.0	15-Jul	17-Jul	DB
C9-C18 Aliphatics	ND	ug/l	20.0					
C19-C36 Aliphatics	ND	ug/l	20.0					
C10-C22 Aromatics	ND	ug/l	20.0					
----------	-							
C9-C18 Aliphatics, Equiv.	ND	ug/l	1.00					
C19-C36 Aliphatics, Equiv.	ND	ug/l	0.100					
C10-C22 Aromatics, Equiv.	ND	ug/l	20.0					
EPH, Total	ND	ug/l	20.0					
----------	-							
Acenaphthene	ND	ug/l	20.0					
Acenaphthylene	ND	ug/l	20.0					
Anthracene	ND	ug/l	20.0					
Benzo(a)anthracene	ND	ug/l	20.0					
Benzo(a)pyrene	ND	ug/l	50.0					
Benzo(b)fluoranthene	ND	ug/l	50.0					
Benzo(ghi)perylene	ND	ug/l	50.0					
Benzo(k)fluoranthene	ND	ug/l	50.0					
Chrysene	ND	ug/l	50.0					
Dibenzo(a,h)anthracene	ND	ug/l	50.0					
Fluoranthene	ND	ug/l	50.0					
Fluorene	ND	ug/l	50.0					
Indeno(1,2,3-c,d)pyrene	ND	ug/l	50.0					
Naphthalene	ND	ug/l	50.0					
Phenanthrene	ND	ug/l	50.0					
Pyrene	ND	ug/l	50.0					
2-Methylnaphthalene	ND	ug/l	50.0					
SURROGATE RECOVERY								
Chloro-octadecane	63.0	%						
o-Terphenyl	98.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-04
43G3-E1
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial,1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	I
Solids, Total	85.	%	0.10	3	2540B		15-Jul	S
Volatile Petroleum Hydrocarbon				39	Draft 1.0	16-Jul	16-Jul	
C5-C8 Aliphatics	1450	ug/kg	100.					
C9-C12 Aliphatics	151000	ug/kg	100.					
C9-C10 Aromatics	26600	ug/kg	100.					
----------	-							
C5-C8 Aliphatics, Equiv.	726.	ug/kg	50.0					
C9-C12 Aliphatics, Equiv.	7570	ug/kg	5.00					
C9-C10 Aromatics, Equiv.	26600	ug/kg	100.					
VPH, Total	34900	ug/kg	100.					
----------	-							
Benzene	ND	ug/kg	100.					
Toluene	ND	ug/kg	100.					
Ethylbenzene	129.	ug/kg	100.					
p/m-Xylene	ND	ug/kg	100.					
o-Xylene	527.	ug/kg	100.					
Methyl tert butyl ether	ND	ug/kg	100.					
Naphthalene	415.	ug/kg	100.					
1,2,4-Trimethylbenzene	258.	ug/Kg	100.					
SURROGATE RECOVERY								
2,5-Dibromotoluene	68.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-04
43G3-E1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Extractable Petroleum Hydrocarbon				40	Draft 1.0	12-Jul	16-Jul	DB
C9-C18 Aliphatics	482000	ug/kg	500.					
C19-C36 Aliphatics	1650000	ug/kg	500.					
C10-C22 Aromatics	729000	ug/kg	500.					
----------	-							
C9-C18 Aliphatics, Equiv.	24700	ug/kg	25.0					
C19-C36 Aliphatics, Equiv.	8240	ug/kg	2.50					
C10-C22 Aromatics, Equiv.	729000	ug/kg	500.					
EPH, Total	765000	ug/kg	500.					
----------	-							
Acenaphthene	ND	ug/kg	360.					
Acenaphthylene	ND	ug/kg	240.					
Anthracene	ND	ug/kg	220.					
Benzo(a)anthracene	ND	ug/kg	100.					
Benzo(a)pyrene	ND	ug/kg	270.					
Benzo(b)fluoranthene	ND	ug/kg	450.					
Benzo(ghi)perylene	ND	ug/kg	310.					
Benzo(k)fluoranthene	ND	ug/kg	40.0					
Chrysene	ND	ug/kg	170.					
Dibenzo(a,h)anthracene	ND	ug/kg	200.					
Fluoranthene	ND	ug/kg	160.					
Fluorene	ND	ug/kg	200.					
Indeno(1,2,3-c,d)pyrene	ND	ug/kg	170.					
Naphthalene	ND	ug/kg	190.					
Phenanthrene	ND	ug/kg	170.					
Pyrene	ND	ug/kg	240.					
2-Methylnaphthalene	ND	ug/kg	160.					
SURROGATE RECOVERY								
Chloro-octadecane	141.	%						
o-Terphenyl	147.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-05
43G3-F1
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial,1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	I
Solids, Total	81.	%	0.10	3	2540B		15-Jul	S
Volatile Petroleum Hydrocarbon				39	Draft 1.0	16-Jul	16-Jul	
C5-C8 Aliphatics	3360	ug/kg	100.					
C9-C12 Aliphatics	12800	ug/kg	100.					
C9-C10 Aromatics	1730	ug/kg	100.					
----------	-							
C5-C8 Aliphatics, Equiv.	1680	ug/kg	50.0					
C9-C12 Aliphatics, Equiv.	642.	ug/kg	5.00					
C9-C10 Aromatics, Equiv.	1730	ug/kg	100.					
VPH, Total	4050	ug/kg	100.					
----------	-							
Benzene	ND	ug/kg	100.					
Toluene	131.	ug/kg	100.					
Ethylbenzene	215.	ug/kg	100.					
p/m-Xylene	143.	ug/kg	100.					
o-Xylene	ND	ug/kg	100.					
Methyl tert butyl ether	ND	ug/kg	100.					
Naphthalene	ND	ug/kg	100.					
1,2,4-Trimethylbenzene	154.	ug/Kg	100.					
SURROGATE RECOVERY								
2,5-Dibromotoluene	93.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-05
43G3-F1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Extractable Petroleum Hydrocarbon				40	Draft 1.0	12-Jul	16-Jul	DB
C9-C18 Aliphatics	ND	ug/kg	500.					
C19-C36 Aliphatics	ND	ug/kg	500.					
C10-C22 Aromatics	ND	ug/kg	500.					
---	-							
C9-C18 Aliphatics, Equiv.	ND	ug/kg	25.0					
C19-C36 Aliphatics, Equiv.	ND	ug/kg	2.50					
C10-C22 Aromatics, Equiv.	ND	ug/kg	500.					
EPH, Total	ND	ug/kg	500.					
---	-							
Acenaphthene	ND	ug/kg	360.					
Acenaphthylene	ND	ug/kg	240.					
Anthracene	ND	ug/kg	220.					
Benzo(a)anthracene	ND	ug/kg	100.					
Benzo(a)pyrene	ND	ug/kg	270.					
Benzo(b)fluoranthene	ND	ug/kg	450.					
Benzo(ghi)perylene	ND	ug/kg	310.					
Benzo(k)fluoranthene	ND	ug/kg	40.0					
Chrysene	ND	ug/kg	170.					
Dibenzo(a,h)anthracene	ND	ug/kg	200.					
Fluoranthene	ND	ug/kg	160.					
Fluorene	ND	ug/kg	200.					
Indeno(1,2,3-c,d)pyrene	ND	ug/kg	170.					
Naphthalene	ND	ug/kg	190.					
Phenanthrene	ND	ug/kg	170.					
Pyrene	ND	ug/kg	240.					
2-Methylnaphthalene	ND	ug/kg	160.					
SURROGATE RECOVERY								
Chloro-octadecane	69.0	%						
o-Terphenyl	100.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-06
43G3-A1
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial,1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS
Solids, Total	95.	%	0.10	3	2540B		15-Jul
Volatile Petroleum Hydrocarbon				39	Draft 1.0	16-Jul	16-Jul
C5-C8 Aliphatics	1580	ug/kg	100.				
C9-C12 Aliphatics	3710	ug/kg	100.				
C9-C10 Aromatics	ND	ug/kg	100.				
----------	-						
C5-C8 Aliphatics, Equiv.	789.	ug/kg	50.0				
C9-C12 Aliphatics, Equiv.	185.	ug/kg	5.00				
C9-C10 Aromatics, Equiv.	ND	ug/kg	100.				
VPH, Total	975.	ug/kg	100.				
----------	-						
Benzene	ND	ug/kg	100.				
Toluene	ND	ug/kg	100.				
Ethylbenzene	ND	ug/kg	100.				
p/m-Xylene	ND	ug/kg	100.				
o-Xylene	ND	ug/kg	100.				
Methyl tert butyl ether	ND	ug/kg	100.				
Naphthalene	ND	ug/kg	100.				
1,2,4-Trimethylbenzene	ND	ug/Kg	100.				
SURROGATE RECOVERY							
2,5-Dibromotoluene	80.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-06
43G3-A1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Extractable Petroleum Hydrocarbon				40	Draft 1.0	12-Jul	16-Jul	DB
C9-C18 Aliphatics	ND	ug/kg	500.					
C19-C36 Aliphatics	ND	ug/kg	500.					
C10-C22 Aromatics	ND	ug/kg	500.					
----------	-							
C9-C18 Aliphatics, Equiv.	ND	ug/kg	25.0					
C19-C36 Aliphatics, Equiv.	ND	ug/kg	2.50					
C10-C22 Aromatics, Equiv.	ND	ug/kg	500.					
EPH, Total	ND	ug/kg	500.					
----------	-							
Acenaphthene	ND	ug/kg	360.					
Acenaphthylene	ND	ug/kg	240.					
Anthracene	ND	ug/kg	220.					
Benzo(a)anthracene	ND	ug/kg	100.					
Benzo(a)pyrene	ND	ug/kg	270.					
Benzo(b)fluoranthene	ND	ug/kg	450.					
Benzo(ghi)perylene	ND	ug/kg	310.					
Benzo(k)fluoranthene	ND	ug/kg	40.0					
Chrysene	ND	ug/kg	170.					
Dibenzo(a,h)anthracene	ND	ug/kg	200.					
Fluoranthene	ND	ug/kg	160.					
Fluorene	ND	ug/kg	200.					
Indeno(1,2,3-c,d)pyrene	ND	ug/kg	170.					
Naphthalene	ND	ug/kg	190.					
Phenanthrene	ND	ug/kg	170.					
Pyrene	ND	ug/kg	240.					
2-Methylnaphthalene	ND	ug/kg	160.					
SURROGATE RECOVERY								
Chloro-octadecane	64.0	%						
o-Terphenyl	110.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-07
43G3-B1
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial,1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	I
Solids, Total	95.	%	0.10	3	2540B		15-Jul	S
Volatile Petroleum Hydrocarbon				39	Draft 1.0	16-Jul	16-Jul	
C5-C8 Aliphatics	1280	ug/kg	100.					
C9-C12 Aliphatics	3590	ug/kg	100.					
C9-C10 Aromatics	ND	ug/kg	100.					
----------	-							
C5-C8 Aliphatics, Equiv.	642.	ug/kg	50.0					
C9-C12 Aliphatics, Equiv.	180.	ug/kg	5.00					
C9-C10 Aromatics, Equiv.	ND	ug/kg	100.					
VPH, Total	822.	ug/kg	100.					
----------	-							
Benzene	ND	ug/kg	100.					
Toluene	ND	ug/kg	100.					
Ethylbenzene	ND	ug/kg	100.					
p/m-Xylene	ND	ug/kg	100.					
o-Xylene	ND	ug/kg	100.					
Methyl tert butyl ether	ND	ug/kg	100.					
Naphthalene	ND	ug/kg	100.					
1,2,4-Trimethylbenzene	ND	ug/Kg	100.					
SURROGATE RECOVERY								
2,5-Dibromotoluene	78.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-07
43G3-B1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Extractable Petroleum Hydrocarbon				40	Draft 1.0	12-Jul	16-Jul	DB
C9-C18 Aliphatics	ND	ug/kg	500.					
C19-C36 Aliphatics	ND	ug/kg	500.					
C10-C22 Aromatics	ND	ug/kg	500.					
----------	-							
C9-C18 Aliphatics, Equiv.	ND	ug/kg	25.0					
C19-C36 Aliphatics, Equiv.	ND	ug/kg	2.50					
C10-C22 Aromatics, Equiv.	ND	ug/kg	500.					
EPH, Total	ND	ug/kg	500.					
----------	-							
Acenaphthene	ND	ug/kg	360.					
Acenaphthylene	ND	ug/kg	240.					
Anthracene	ND	ug/kg	220.					
Benzo(a)anthracene	ND	ug/kg	100.					
Benzo(a)pyrene	ND	ug/kg	270.					
Benzo(b)fluoranthene	ND	ug/kg	450.					
Benzo(ghi)perylene	ND	ug/kg	310.					
Benzo(k)fluoranthene	ND	ug/kg	40.0					
Chrysene	ND	ug/kg	170.					
Dibenzo(a,h)anthracene	ND	ug/kg	200.					
Fluoranthene	ND	ug/kg	160.					
Fluorene	ND	ug/kg	200.					
Indeno(1,2,3-c,d)pyrene	ND	ug/kg	170.					
Naphthalene	ND	ug/kg	190.					
Phenanthrene	ND	ug/kg	170.					
Pyrene	ND	ug/kg	240.					
2-Methylnaphthalene	ND	ug/kg	160.					
SURROGATE RECOVERY								
Chloro-octadecane	76.0	%						
o-Terphenyl	119.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-08
43G3-C1
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial,1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	I
Solids, Total	95.	%	0.10	3	2540B		15-Jul	S
Volatile Petroleum Hydrocarbon				39	Draft 1.0	16-Jul	16-Jul	
C5-C8 Aliphatics	413.	ug/kg	100.					
C9-C12 Aliphatics	4570	ug/kg	100.					
C9-C10 Aromatics	200.	ug/kg	100.					
----------	-							
C5-C8 Aliphatics, Equiv.	206.	ug/kg	50.0					
C9-C12 Aliphatics, Equiv.	228.	ug/kg	5.00					
C9-C10 Aromatics, Equiv.	200.	ug/kg	100.					
VPH, Total	635.	ug/kg	100.					
----------	-							
Benzene	ND	ug/kg	100.					
Toluene	ND	ug/kg	100.					
Ethylbenzene	ND	ug/kg	100.					
p/m-Xylene	ND	ug/kg	100.					
o-Xylene	ND	ug/kg	100.					
Methyl tert butyl ether	ND	ug/kg	100.					
Naphthalene	ND	ug/kg	100.					
1,2,4-Trimethylbenzene	ND	ug/Kg	100.					
SURROGATE RECOVERY								
2,5-Dibromotoluene	81.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-08
43G3-C1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Extractable Petroleum Hydrocarbon				40	Draft 1.0	12-Jul	16-Jul	DB
C9-C18 Aliphatics	ND	ug/kg	500.					
C19-C36 Aliphatics	ND	ug/kg	500.					
C10-C22 Aromatics	ND	ug/kg	500.					
----------	-							
C9-C18 Aliphatics, Equiv.	ND	ug/kg	25.0					
C19-C36 Aliphatics, Equiv.	ND	ug/kg	2.50					
C10-C22 Aromatics, Equiv.	ND	ug/kg	500.					
EPH, Total	ND	ug/kg	500.					
----------	-							
Acenaphthene	ND	ug/kg	360.					
Acenaphthylene	ND	ug/kg	240.					
Anthracene	ND	ug/kg	220.					
Benzo(a)anthracene	ND	ug/kg	100.					
Benzo(a)pyrene	ND	ug/kg	270.					
Benzo(b)fluoranthene	ND	ug/kg	450.					
Benzo(ghi)perylene	ND	ug/kg	310.					
Benzo(k)fluoranthene	ND	ug/kg	40.0					
Chrysene	ND	ug/kg	170.					
Dibenzo(a,h)anthracene	ND	ug/kg	200.					
Fluoranthene	ND	ug/kg	160.					
Fluorene	ND	ug/kg	200.					
Indeno(1,2,3-c,d)pyrene	ND	ug/kg	170.					
Naphthalene	ND	ug/kg	190.					
Phenanthrene	ND	ug/kg	170.					
Pyrene	ND	ug/kg	240.					
2-Methylnaphthalene	ND	ug/kg	160.					
SURROGATE RECOVERY								
Chloro-octadecane	50.0	%						
o-Terphenyl	123.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-09
43G3-D1
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial,1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS
Solids, Total	89.	%	0.10	3	2540B		15-Jul
Volatile Petroleum Hydrocarbon				39	Draft 1.0	16-Jul	16-Jul
C5-C8 Aliphatics	3900	ug/kg	100.				
C9-C12 Aliphatics	4830	ug/kg	100.				
C9-C10 Aromatics	119.	ug/kg	100.				
----------	-						
C5-C8 Aliphatics, Equiv.	1950	ug/kg	50.0				
C9-C12 Aliphatics, Equiv.	242.	ug/kg	5.00				
C9-C10 Aromatics, Equiv.	119.	ug/kg	100.				
VPH, Total	2310	ug/kg	100.				
----------	-						
Benzene	ND	ug/kg	100.				
Toluene	ND	ug/kg	100.				
Ethylbenzene	ND	ug/kg	100.				
p/m-Xylene	ND	ug/kg	100.				
o-Xylene	ND	ug/kg	100.				
Methyl tert butyl ether	ND	ug/kg	100.				
Naphthalene	ND	ug/kg	100.				
1,2,4-Trimethylbenzene	ND	ug/Kg	100.				
SURROGATE RECOVERY							
2,5-Dibromotoluene	78.0	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-09
43G3-D1

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Extractable Petroleum Hydrocarbon				40	Draft 1.0	12-Jul	16-Jul	DB
C9-C18 Aliphatics	ND	ug/kg	500.					
C19-C36 Aliphatics	ND	ug/kg	500.					
C10-C22 Aromatics	ND	ug/kg	500.					
----------	-							
C9-C18 Aliphatics, Equiv.	ND	ug/kg	25.0					
C19-C36 Aliphatics, Equiv.	ND	ug/kg	2.50					
C10-C22 Aromatics, Equiv.	ND	ug/kg	500.					
EPH, Total	ND	ug/kg	500.					
----------	-							
Acenaphthene	ND	ug/kg	360.					
Acenaphthylene	ND	ug/kg	240.					
Anthracene	ND	ug/kg	220.					
Benzo(a)anthracene	ND	ug/kg	100.					
Benzo(a)pyrene	ND	ug/kg	270.					
Benzo(b)fluoranthene	ND	ug/kg	450.					
Benzo(ghi)perylene	ND	ug/kg	310.					
Benzo(k)fluoranthene	ND	ug/kg	40.0					
Chrysene	ND	ug/kg	170.					
Dibenzo(a,h)anthracene	ND	ug/kg	200.					
Fluoranthene	ND	ug/kg	160.					
Fluorene	ND	ug/kg	200.					
Indeno(1,2,3-c,d)pyrene	ND	ug/kg	170.					
Naphthalene	ND	ug/kg	190.					
Phenanthrene	ND	ug/kg	170.					
Pyrene	ND	ug/kg	240.					
2-Methylnaphthalene	ND	ug/kg	160.					
SURROGATE RECOVERY								
Chloro-octadecane	73.0	%						
o-Terphenyl	123.	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-10
TRIP BLANK
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	I
Volatile Petroleum Hydrocarbon				39	Draft 1.0	16-Jul	16-Jul	
C5-C8 Aliphatics	1940	ug/kg	100.					
C9-C12 Aliphatics	4510	ug/kg	100.					
C9-C10 Aromatics	ND	ug/kg	100.					
----------	-							
C5-C8 Aliphatics, Equiv.	970.	ug/kg	50.0					
C9-C12 Aliphatics, Equiv.	225.	ug/kg	5.00					
C9-C10 Aromatics, Equiv.	ND	ug/kg	100.					
VPH, Total	1200	ug/kg	100.					
----------	-							
Benzene	ND	ug/kg	100.					
Toluene	ND	ug/kg	100.					
Ethylbenzene	ND	ug/kg	100.					
p/m-Xylene	ND	ug/kg	100.					
o-Xylene	ND	ug/kg	100.					
Methyl tert butyl ether	ND	ug/kg	100.					
Naphthalene	ND	ug/kg	100.					
1,2,4-Trimethylbenzene	ND	ug/Kg	100.					
SURROGATE RECOVERY								
2,5-Dibromotoluene	87.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

MA:M-MA-086 NH:200395-B/C CT:PH-0574 ME:MA086 RI:65

Laboratory Sample Number: L9604709-11
43G3-FID
Sample Matrix: SOIL

Date Collected: 10-JUL-96
Date Received : 10-JUL-96
Date Reported : 17-JUL-96

Condition of Sample: Satisfactory

Field Prep: None

Number & Type of Containers: 1 Vial,1 Glass

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS	ID
Solids, Total	84.	%	0.10	3	2540B		15-Jul	ST
Volatile Petroleum Hydrocarbon				39	Draft 1.0	16-Jul	16-Jul	
C5-C8 Aliphatics	22200	ug/kg	100.					
C9-C12 Aliphatics	12700	ug/kg	100.					
C9-C10 Aromatics	842.	ug/kg	100.					
----------	-							
C5-C8 Aliphatics, Equiv.	11100	ug/kg	50.0					
C9-C12 Aliphatics, Equiv.	632.	ug/kg	5.00					
C9-C10 Aromatics, Equiv.	842.	ug/kg	100.					
VPH, Total	12600	ug/kg	100.					
----------	-							
Benzene	164.	ug/kg	100.					
Toluene	143.	ug/kg	100.					
Ethylbenzene	ND	ug/kg	100.					
p/m-Xylene	210.	ug/kg	100.					
o-Xylene	ND	ug/kg	100.					
Methyl tert butyl ether	ND	ug/kg	100.					
Naphthalene	ND	ug/kg	100.					
1,2,4-Trimethylbenzene	165.	ug/Kg	100.					
SURROGATE RECOVERY								
2,5-Dibromotoluene	86.0	%						

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
CERTIFICATE OF ANALYSIS

Laboratory Sample Number: L9604709-11
43G3-FID

PARAMETER	RESULT	UNITS	RDL	REF	METHOD	DATES PREP	DATES ANALYSIS
Extractable Petroleum Hydrocarbon				40	Draft 1.0	12-Jul	16-Jul
C9-C18 Aliphatics	ND	ug/kg	500.				
C19-C36 Aliphatics	ND	ug/kg	500.				
C10-C22 Aromatics	ND	ug/kg	500.				
----------	-						
C9-C18 Aliphatics, Equiv.	ND	ug/kg	25.0				
C19-C36 Aliphatics, Equiv.	ND	ug/kg	2.50				
C10-C22 Aromatics, Equiv.	ND	ug/kg	500.				
EPH, Total	ND	ug/kg	500.				
----------	-						
Acenaphthene	ND	ug/kg	360.				
Acenaphthylene	ND	ug/kg	240.				
Anthracene	ND	ug/kg	220.				
Benzo(a)anthracene	ND	ug/kg	100.				
Benzo(a)pyrene	ND	ug/kg	270.				
Benzo(b)fluoranthene	ND	ug/kg	450.				
Benzo(ghi)perylene	ND	ug/kg	310.				
Benzo(k)fluoranthene	ND	ug/kg	40.0				
Chrysene	ND	ug/kg	170.				
Dibenzo(a,h)anthracene	ND	ug/kg	200.				
Fluoranthene	ND	ug/kg	160.				
Fluorene	ND	ug/kg	200.				
Indeno(1,2,3-c,d)pyrene	ND	ug/kg	170.				
Naphthalene	ND	ug/kg	190.				
Phenanthrene	ND	ug/kg	170.				
Pyrene	ND	ug/kg	240.				
2-Methylnaphthalene	ND	ug/kg	160.				
SURROGATE RECOVERY							
Chloro-octadecane	99.0	%					
o-Terphenyl	108.	%					

Comments: Complete list of References and Glossary of Terms found in Addendum I

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH DUPLICATE ANALYSIS

Laboratory Job Number: L9604709

Parameter	Value 1	Value 2	RPD	Units
Solids, Total	DUPLICATE for sample(s) 01-02,04-09,11			
	86.	87.	1	%

ALPHA ANALYTICAL LABORATORIES
QUALITY ASSURANCE BATCH MS/MSD ANALYSIS

Laboratory Job Number: L9604709

Parameter	MS %	MSD %	RPD
Volatile Petroleum Hydrocarbon-Spike Recovery MS/MSD for sample(s) 01-02,04-11			
2-Methylpentane	140	121	15
Toluene	91	99	8
1,2,4-Trimethylbenzene	114	127	11
SURROGATE RECOVERY			
2,5-Dibromotoluene	83	114	31
Extractable Petroleum Hydrocarbon Spike Recovery MS/MSD for sample(s) 01-02,04-09,11			
Nonane (C9)	43	26	49
Tetradecane (C14)	97	91	6
Nonadecane (C19)	97	93	4
Eicosane (C20)	93	91	2
Octacosane (C28)	73	76	4
Naphthalene	63	41	42
Acenaphthene	85	75	13
Anthracene	86	81	6
Pyrene	118	107	10
Chrysene	138	105	27
SURROGATE RECOVERY			
Chloro-octadecane	73	78	7
o-Terphenyl	118	127	7
Extractable Petroleum Hydrocarbon Spike Recovery MS/MSD for sample(s) 03			
Nonane (C9)	211	162	26
Tetradecane (C14)	74	70	6
Nonadecane (C19)	103	82	23
Eicosane (C20)	104	84	21
Octacosane (C28)	78	69	12
Naphthalene	351	358	2
Acenaphthene	74	78	5
Anthracene	75	78	4
Pyrene	102	95	7
Chrysene	99	84	16
SURROGATE RECOVERY			
Chloro-octadecane	77	64	18
o-Terphenyl	105	110	5

REFERENCES

3. Standard Methods for Examination of Water and Waste Water. APHA-AWWA-WPCF. 17th Edition. 1989.

39. Method for the Determination of Volatile Petroleum Hydrocarbons (VPH), Draft 1.0, Massachusetts Department of Environmental Protection, 1995.

40. Method for the Determination of Extractable Petroleum Hydrocarbons (EPH), Draft 1.0, Massachusetts Department of Environmental Protection, 1995.

GLOSSARY OF TERMS AND SYMBOLS

REF Reference number in which test method may be found.

METHOD Method number by which analysis was performed.

ID Initials of the analyst.

LIMITATION OF LIABILITIES

Alpha Analytical, Inc. performs services with reasonable care and diligence normal to the analytical testing laboratory industry. In the event of an error, the sole and exclusive responsibility of Alpha Analytical, Inc., shall be to re-perform the work at it's own expense. In no event shall Alpha Analytical, Inc. be held liable for any incidental consequential or special damages, including but not limited to, damages in any way connected with the use of, interpretation of, information or analysis provided by Alpha Analytical, Inc.

We strongly urge our clients to comply with EPA protocol regarding sample volume, preservation, cooling, containers, sampling procedures, holding times and splitting of samples in the field.

ALPHA
Analytical Laboratories, Inc.

8 Walkup Drive
Westborough, MA 01581-1019
508-898-9220 FAX 508-898-9193

CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 76
Sheet 1 of 2

Company Name: Roy F. Weston	Project Number: 03886-118-004-0209-01 P.O. Number: 66129	Project Name/Location: AOC 43G AREA 3 / Fort Devens, MA	Date Received in Lab: 7/10
Company Address: 88 Pine Street, Building 2012 Devens, MA 01433	Phone Number: (508)-772-7190 FAX No.: (508)-772-7251	Project Manager: Tom Abdella	Alpha Job Number: (Lab use only) 9604709

Container Codes: P = Plastic V = Vial C = Cube G = Glass A = Amber Glass B = Bacteria Container O = Other

MATRIX / SOURCE CODES: MW = Monitoring Well, RO = Runoff, O = Outfall, W = Well, L F = Landfill, L = Lake/Pond/Ocean, I = Influent, E = Effluent, DW = Drinking Water, R = River Stream, S = Soil, SG = Sludge, B = Bottom Sediment, X1 = Other Equipment Rinsate, X2 = Other Trip Blank

ALPHA Lab # (Lab Use Only)	Sample I.D.	Containers (number/type)	Matrix / Source	Method Preserve. (number of containers): Unpres.	Ice	Nitric	Sulfuric	HCl	Other MeOH	Solubles - F.F.	Sampling Date	Sampling Time	Analysis Requested
4709.1	43G3-X1	1 x 40z 1 x 40 ml VOA	S	X	X				X		7/10/96	1115	EPH, VPH (13)
2	43G3-G1	1 x 40z 1 x 40 ml VOA	S	X	X				X		7/10/96	1125	EPH, VPH +
3	43G-RINSE	2x 1L 2x 40 ml VOA	X1		X			X	X		7/10/96	1150	EPH, VPH n/c
4	43G3-E1	1 x 40z 1 x 40 ml VOA	S	X	X				X		7/10/96	1200	EPH, VPH (13)
5	43G3-F1	1 x 40z 1 x 40 ml VOA	S	X	X				X		7/10/96	1210	EPH, VPH |
6	43G3-A1	1 x 40z 1 x 40 ml VOA	S	X	X				X		7/10/96	~~1225~~ 1230	EPH, VPH
7	43G3-B1	1 x 40z 1 x 40 ml VOA	S	X	X				X		7/10/96	~~1250~~ 1245	EPH, VPH
8	43G3-C1	1 x 40z 1 x 40 ml VOA	S	X	X				X		7/10/96	~~1255~~ 1250	EPH, VPH
9	43G3-D1	1 x 40z 1 x 40 ml VOA	S	X	X				X		7/10/96	~~1210~~ 1255	EPH, VPH |
10	TRIP BLANK	1 x 40 ml VOA	X2		X				X		-	-	VPH n/c

Sampler's Signature	Affiliation	Date	Time
William P. Dale	Weston	7/10/96	See above

ADDITIONAL COMMENTS:

NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	William P. Dale	Daniel Spector	7/10	3PM
2	D Spector	[illegible]	7/10	1700
3				
4				

Form No. QOP/06-03

ALPHA
Analytical Laboratories, Inc.

Eight Walkup Drive
Westborough, MA 01581-1019
508-898-9220 FAX 508-898-9193

CHAIN OF CUSTODY RECORD and ANALYSIS REQUEST RECORD

No. 12
Sheet 2 of 2

Company Name:	Project Number:	Project Name/Location:	Date Received in Lab:	Date Due:
Roy F. Weston	03886-118-004-0209-01 P.O. Number: 66129	ADC 436 AREAS / Fort Devens, MA	7/10	7/17/96

Company Address:	Phone Number:	Project Manager:	Alpha Job Number: (Lab use only)
88 Pine Street, Building 2012 Devens, MA 01433	(508)-772-7190 FAX No. (508)-772-7251	TOM ABDELLA	9604709

Container Codes: P = Plastic V = Vial C = Cube G = Glass A = Amber Glass B = Bacteria Container O = Other

MATRIX / SOURCE CODES: MW = Monitoring Well, RO = Runoff, O = Outfall, W = Well, LF = Landfill, L = Lake/Pond/Ocean, I = Influent, E = Effluent, DW = Drinking Water, R = River Stream, S = Soil, SG = Sludge, B = Bottom Sediment, X1 = Other, X2 = Other

ALPHA Lab # (Lab Use Only)	Sample I.D.	Containers (number/type)	Matrix / Source	Method Preserve. (number of containers): Unpres.	Ice	Nitric	Sulfuric	HCl	Other	Solubles - F.F.	Sampling: Date	Sampling: Time	Analysis Requested
4709.11	4363-FID	1x40z 1x40ml VOA	S	X	X				X				EPH, UPH (B)

Sampler's Signature	Affiliation	Date	Time
William P. Dahl	Weston	7/10/96	See above

ADDITIONAL COMMENTS:

NUMBER	TRANSFERS RELINQUISHED BY	TRANSFERS ACCEPTED BY	DATE	TIME
1	William P. Dahl	Daniel Porter	7/10	330
2	D. Porter	Fed Ex	7/10	1700
3				
4				

Form No. QOP/06-03

ATTACHMENT H

AOC 43G

CERTIFICATION OF CLEAN FILL
BUILDING 202 STOCKPILED SOIL

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Cyanide, Reactive	<2.0	mg/kg	1.0		7.3.4.2	07/01/96	CM	1
Ignitability-Flash Point	>65	degrees C	1.0	25	1010	06/27/96	WL	
Paint Filter Liquids Test	0 FREE	LIQUIDS	1.0		9095	06/26/96	BC	
Sulfide, Reactive	<27	mg/kg	1.0	27	7.3.4.2	06/26/96	BC	1
pH (Soil)	6.8	pH Units	1.0	0.1	9045	06/25/96	JF	2,3

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/26/96 by CLM
(2) Sample Preparation on 06/25/96 by JF
(3) Sample required a larger volume of water for pH determination than specified in the method.

07/29/96

LJO/ejnlp(dw)/pph

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Petroleum Hydrocarbons (TPH)	110	mg/kgdrywt	1.00	25	E418.1	07/03/96	NN	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values
(1) Sample Preparation on 07/01/96 by BWG

07/29/96

LJO/ejnbwg/lp(dw)/mft/pph

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1,2
Phenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
bis(2-Chloroethyl)ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2-Chlorophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
1,3-Dichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
1,4-Dichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
1,2-Dichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2-Methylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
bis(2-Chloroisopropyl) ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
4-Methylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
n-Nitroso-dipropylamine	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Hexachloroethane	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Nitrobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Isophorone	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/26/96 by BWG using EPA 3550A
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

07/29/96

LJO/jcbert/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Nitrophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2,4-Dimethylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
bis(2-Chloroethoxy)methane	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2,4-Dichlorophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
1,2,4-Trichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Naphthalene	J3	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
4-Chloroaniline	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Hexachlorobutadiene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
4-Chloro-3-methylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2-Methylnaphthalene	J5	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Hexachlorocyclopentadiene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2,4,6-Trichlorophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2,4,5-Trichlorophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	07/01/96	JC	
2-Chloronaphthalene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2-Nitroaniline	<900.	µg/kgdrywt	1.1	820	EPA 8270B	07/01/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbert/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dimethylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Acenaphthylene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2,6-Dinitrotoluene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
3-Nitroaniline	<900.	µg/kgdrywt	1.1	820	EPA 8270B	07/01/96	JC	
Acenaphthene	J14	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2,4-Dinitrophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	07/01/96	JC	
4-Nitrophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	07/01/96	JC	
Dibenzofuran	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2,4-Dinitrotoluene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Diethylphthalate	J15	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
4-Chlorophenyl phenyl ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Fluorene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
4-Nitroaniline	<900.	µg/kgdrywt	1.1	820	EPA 8270B	07/01/96	JC	
4,6-Dinitro-2-methylphenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	07/01/96	JC	
n-Nitrosodiphenylamine	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbert/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Bromophenyl phenyl ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Hexachlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Pentachlorophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	07/01/96	JC	
Phenanthrene	J94	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Anthracene	J15	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Carbazole	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Di-n-butylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Fluoranthene	J150	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Pyrene	J150	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Butyl benzylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
3,3'-Dichlorobenzidine	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Benzo(a)anthracene	J82	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Chrysene	J83	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
bis(2-Ethylhexyl)phthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Di-n-octylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbert/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(b)fluoranthene	J120	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Benzo(k)fluoranthene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Benzo(a)pyrene	J57	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Indeno(1,2,3-cd)pyrene	J31	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Dibenzo(a,h)anthracene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
Benzo(g,h,i)perylene	J37	µg/kgdrywt	1.1	330	EPA 8270B	07/01/96	JC	
2-Fluorophenol (% Recovery)	54.	%	1.1		EPA 8270B	07/01/96	JC	
Phenol-d5 (% Recovery)	64.	%	1.1		EPA 8270B	07/01/96	JC	
Nitrobenzene-d5 (% Recovery)	65.	%	1.1		EPA 8270B	07/01/96	JC	
2-Fluorobiphenyl (% Recovery)	79.	%	1.1		EPA 8270B	07/01/96	JC	
2,4,6-Tribromophenol (% Recovery)	55.	%	1.1		EPA 8270B	07/01/96	JC	
Terphenyl-d14 (% Recovery)	71.	%	1.1		EPA 8270B	07/01/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbert/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								1,2
Dichlorodifluoromethane	<2.2	µg/kgdrywt	1.1	2	EPA 8260	06/27/96	DW	
Chloromethane	<2.2	µg/kgdrywt	1.1	2	EPA 8260	06/27/96	DW	
Vinyl chloride	<2.2	µg/kgdrywt	1.1	2	EPA 8260	06/27/96	DW	
Bromomethane	<2.2	µg/kgdrywt	1.1	2	EPA 8260	06/27/96	DW	
Chloroethane	<2.2	µg/kgdrywt	1.1	2	EPA 8260	06/27/96	DW	
Trichlorofluoromethane	<2.2	µg/kgdrywt	1.1	2	EPA 8260	06/27/96	DW	
1,1-Dichloroethene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Methylene chloride	B4	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
trans-1,2-Dichloroethene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,1-Dichloroethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
cis-1,2-Dichloroethene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
2,2-Dichloropropane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Bromochloromethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Chloroform	JB0.9	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,2-Dichloroethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,1-Dichloropropene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Carbon tetrachloride	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Benzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,2-Dichloropropane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Trichloroethene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
cis-1,3-Dichloropropene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Dibromomethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Bromodichloromethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Toluene	1.	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
trans-1,3-Dichloropropene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,1,2-Trichloroethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,3-Dichloropropane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Dibromochloromethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,2-Dibromoethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Chlorobenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,1,1,2-tetrachloroethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Ethylbenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
m-Xylene/p-Xylene	J0.6	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Bromoform	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
o-Xylene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Styrene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,1,2,2-Tetrachloroethane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,2,3-Trichloropropane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Isopropylbenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Bromobenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
2-Chlorotoluene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
n-Propylbenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Chlorotoluene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,3,5-Trimethylbenzene	J0.7	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
tert-Butylbenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,2,4-Trimethylbenzene	J0.9	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
sec-Butylbenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,3-Dichlorobenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
4-Isopropyltoluene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,4-Dichlorobenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,2-Dichlorobenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
n-Butylbenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,2-Dibromo-3-chloropropane	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,2,4-Trichlorobenzene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Naphthalene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
Hexachlorobutadiene	<1.1	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	
1,2,3-Trichlorobenzene	JB0.7	µg/kgdrywt	1.1	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-7
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
61Z-WC1	Solid	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	108.	%	1.1		EPA 8260	06/27/96	DW	
Toluene-d8 (%)	94.	%	1.1		EPA 8260	06/27/96	DW	
p-Bromofluorobenzene (%)	81.	%	1.1		EPA 8260	06/27/96	DW	
Acetone	JB2	µg/kgdrywt	1.1	5.0	EPA 8260	06/27/96	DW	
2-Butanone	<5.5	µg/kgdrywt	1.1	5.0	EPA 8260	06/27/96	DW	
4-Methyl-2-pentanone	<3.3	µg/kgdrywt	1.1	3.0	EPA 8260	06/27/96	DW	
2-Hexanone	<4.4	µg/kgdrywt	1.1	4.0	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-8
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
TRIP BLANK	Aqueous	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								1,2
Dichlorodifluoromethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Chloromethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Vinyl chloride	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Bromomethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Chloroethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Trichlorofluoromethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Methylene chloride	B1	µg/L	1.0	1	EPA 8260	06/27/96	DW	
trans-1,2-Dichloroethene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,1-Dichloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
cis-1,2-Dichloroethene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
2,2-Dichloropropane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Bromochloromethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Chloroform	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-8
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TRIP BLANK	Aqueous	CLIENT	06/21/96	06/24/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOT
1,1,1-Trichloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2-Dichloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,1-Dichloropropene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Carbon tetrachloride	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Benzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2-Dichloropropane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Trichloroethene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
cis-1,3-Dichloropropene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Dibromomethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Bromodichloromethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Toluene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
trans-1,3-Dichloropropene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,1,2-Trichloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,3-Dichloropropane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Dibromochloromethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-8
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
TRIP BLANK	Aqueous	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2-Dibromoethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Chlorobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,1,1,2-tetrachloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Ethylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
m-Xylene/p-Xylene	J0.7	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Bromoform	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
o-Xylene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Styrene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,1,2,2-Tetrachloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2,3-Trichloropropane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Isopropylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Bromobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
2-Chlorotoluene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
n-Propylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-8
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TRIP BLANK	Aqueous	CLIENT	06/21/96	06/24/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Chlorotoluene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,3,5-Trimethylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
tert-Butylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2,4-Trimethylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
sec-Butylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,3-Dichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
4-Isopropyltoluene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,4-Dichlorobenzene	J0.6	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2-Dichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
n-Butylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2-Dibromo-3-chloropropane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2,4-Trichlorobenzene	1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Naphthalene	B3	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Hexachlorobutadiene	2.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2,3-Trichlorobenzene	2.	µg/L	1.0	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-8
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
TRIP BLANK	Aqueous	CLIENT	06/21/96	06/24/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	106.	%	1.0		EPA 8260	06/27/96	DW	
Toluene-d8 (%)	104.	%	1.0		EPA 8260	06/27/96	DW	
p-Bromofluorobenzene (%)	103.	%	1.0		EPA 8260	06/27/96	DW	
Acetone	B5	µg/L	1.0	5.0	EPA 8260	06/27/96	DW	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	06/27/96	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	06/27/96	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Antimony, Total	<0.008	mg/L	1.0	0.008	200.7/6010	06/28/96	EM	1
Arsenic, Total	<0.008	mg/L	1.0	0.008	200.7/6010	06/28/96	EM	1
Beryllium, Total	<0.005	mg/L	1.0	0.005	200.7/6010	06/28/96	EM	1
Cadmium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	06/28/96	EM	1
Chromium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/28/96	EM	1
Copper, Total	<0.025	mg/L	1.0	0.025	200.7/6010	06/28/96	EM	1
Lead, Total	<0.005	mg/L	1.0	0.005	200.7/6010	06/28/96	EM	1
Mercury, Total	<0.20	µg/L	1.0	0.20	245.1	06/27/96	DE	2
Nickel, Total	<0.040	mg/L	1.0	0.040	200.7/6010	06/28/96	EM	1
Selenium, Total	<0.010	mg/L	1.0	0.010	200.7/6010	06/28/96	EM	1
Silver, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/28/96	EM	1
Thallium, Total	<0.015	mg/L	1.0	0.015	200.7/6010	06/28/96	EM	1
Zinc, Total	<0.025	mg/L	1.0	0.025	200.7/6010	06/28/96	EM	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/26/96 by DJE using 3010
(2) Sample Preparation on 06/26/96 by DJE using 245.1

07/29/96

LJO/ejnlp(dw)
MF26ICW1
CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diesel Range Organics								1
Diesel Range Organics	<50.	µg/L	1	50	8015M-DRO	07/03/96	RH	
o-Terphenyl	83.	%	1		8015M-DRO	07/03/96	RH	
Gasoline Range Organics								
Gasoline Range Organics	<10	µg/L	1.0	10	8015M-GRO	06/26/96	TL	
4-Bromofluorobenzene	96.	%	1.0		8015M-GRO	06/26/96	TL	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/26/96 by ACB using ME DEP 4.1.25

07/29/96

LJO/jcbedw/lp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Pesticides/PCBs by USEPA 8080								1
alpha-BHC	<0.05	µg/L	1	0.05	EPA 8080	06/28/96	SW	
gamma-BHC (Lindane)	<0.05	µg/L	1	0.05	EPA 8080	06/28/96	SW	
Heptachlor	<0.05	µg/L	1	0.05	EPA 8080	06/28/96	SW	
Aldrin	<0.05	µg/L	1	0.05	EPA 8080	06/28/96	SW	
beta-BHC	<0.05	µg/L	1	0.05	EPA 8080	06/28/96	SW	
delta-BHC	<0.05	µg/L	1	0.05	EPA 8080	06/28/96	SW	
Heptachlor epoxide	<0.05	µg/L	1	0.05	EPA 8080	06/28/96	SW	
Endosulfan I	<0.05	µg/L	1	0.05	EPA 8080	06/28/96	SW	
4,4'-DDE	<0.1	µg/L	1	0.1	EPA 8080	06/28/96	SW	
Dieldrin	<0.1	µg/L	1	0.1	EPA 8080	06/28/96	SW	
Endrin	<0.1	µg/L	1	0.1	EPA 8080	06/28/96	SW	
4,4'-DDD	<0.1	µg/L	1	0.1	EPA 8080	06/28/96	SW	
Endosulfan II	<0.1	µg/L	1	0.1	EPA 8080	06/28/96	SW	
4,4'-DDT	<0.1	µg/L	1	0.1	EPA 8080	06/28/96	SW	
Endrin aldehyde	<0.1	µg/L	1	0.1	EPA 8080	06/28/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 06/26/96 by ACB using EPA 3510

07/29/96

LJO/jcbedw/lp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Endosulfan sulfate	<0.1	µg/L	1	0.1	EPA 8080	06/28/96	SW	
Methoxychlor	<0.5	µg/L	1	0.5	EPA 8080	06/28/96	SW	
Chlordane	<0.5	µg/L	1	0.5	EPA 8080	06/28/96	SW	
Toxaphene	<1.	µg/L	1	1	EPA 8080	06/28/96	SW	
PCB-1016	<0.5	µg/L	1	0.5	EPA 8080	06/28/96	SW	
PCB-1221	<1.	µg/L	1	1	EPA 8080	06/28/96	SW	
PCB-1232	<0.5	µg/L	1	0.5	EPA 8080	06/28/96	SW	
PCB-1242	<0.5	µg/L	1	0.5	EPA 8080	06/28/96	SW	
PCB-1248	<0.5	µg/L	1	0.5	EPA 8080	06/28/96	SW	
PCB-1254	<0.5	µg/L	1	0.5	EPA 8080	06/28/96	SW	
PCB-1260	<0.5	µg/L	1	0.5	EPA 8080	06/28/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	66.	%	1		EPA 8080	06/28/96	SW	
Decachlorobiphenyl (% Recovery)	56.	%	1		EPA 8080	06/28/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbedw/lp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1,2,3
Phenol	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
bis(2-Chloroethyl)ether	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2-Chlorophenol	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
1,3-Dichlorobenzene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
1,4-Dichlorobenzene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
1,2-Dichlorobenzene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2-Methylphenol	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
bis(2-Chloroisopropyl) ether	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
4-Methylphenol	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
n-Nitroso-dipropylamine	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Hexachloroethane	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Nitrobenzene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value

(1) Sample Preparation on 06/27/96 by ACB using EPA 3520

(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

(3) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

07/29/96

LJO/jcbert/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Isophorone	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2-Nitrophenol	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2,4-Dimethylphenol	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
bis(2-Chloroethoxy)methane	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2,4-Dichlorophenol	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
1,2,4-Trichlorobenzene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Naphthalene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
4-Chloroaniline	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Hexachlorobutadiene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
4-Chloro-3-methylphenol	J7.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2-Methylnaphthalene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Hexachlorocyclopentadiene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2,4,6-Trichlorophenol	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2,4,5-Trichlorophenol	<28.	µg/L	1.1	25	EPA 8270B	07/09/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbert/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
2-Chloronaphthalene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2-Nitroaniline	<28.	µg/L	1.1	25	EPA 8270B	07/09/96	JC	
Dimethylphthalate	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Acenaphthylene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2,6-Dinitrotoluene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
3-Nitroaniline	<28.	µg/L	1.1	25	EPA 8270B	07/09/96	JC	
Acenaphthene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2,4-Dinitrophenol	<28.	µg/L	1.1	25	EPA 8270B	07/09/96	JC	
4-Nitrophenol	<28.	µg/L	1.1	25	EPA 8270B	07/09/96	JC	
Dibenzofuran	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2,4-Dinitrotoluene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Diethylphthalate	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
4-Chlorophenyl phenyl ether	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Fluorene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

07/29/96

LJO/jcbert/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Nitroaniline	<28.	µg/L	1.1	25	EPA 8270B	07/09/96	JC	
4,6-Dinitro-2-methylphenol	<28.	µg/L	1.1	25	EPA 8270B	07/09/96	JC	
n-Nitrosodiphenylamine	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
4-Bromophenyl phenyl ether	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Hexachlorobenzene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Pentachlorophenol	<28.	µg/L	1.1	25	EPA 8270B	07/09/96	JC	
Phenanthrene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Anthracene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Carbazole	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Di-n-butylphthalate	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Fluoranthene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Pyrene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Butyl benzylphthalate	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
3,3'-Dichlorobenzidine	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

07/29/96

LJO/jcbert/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOT
Benzo(a)anthracene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Chrysene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
bis(2-Ethylhexyl)phthalate	JB3	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Di-n-octylphthalate	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Benzo(b)fluoranthene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Benzo(k)fluoranthene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Benzo(a)pyrene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Indeno(1,2,3-cd)pyrene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Dibenzo(a,h)anthracene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
Benzo(g,h,i)perylene	<11.	µg/L	1.1	10	EPA 8270B	07/09/96	JC	
2-Fluorophenol (% Recovery)	81.	%	1.1		EPA 8270B	07/09/96	JC	
Phenol-d5 (% Recovery)	92.	%	1.1		EPA 8270B	07/09/96	JC	
Nitrobenzene-d5 (% Recovery)	89.	%	1.1		EPA 8270B	07/09/96	JC	
2-Fluorobiphenyl (% Recovery)	85.	%	1.1		EPA 8270B	07/09/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value .

07/29/96

LJO/jcbert/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4,6-Tribromophenol (% Recovery)	86.	%	1.1		EPA 8270B	07/09/96	JC	
Terphenyl-d14 (% Recovery)	116.	%	1.1		EPA 8270B	07/09/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

07/29/96

LJO/jcbert/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
VOAs (8260)								1
Dichlorodifluoromethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Chloromethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Vinyl chloride	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Bromomethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Chloroethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
Trichlorofluoromethane	<2.	µg/L	1.0	2	EPA 8260	06/27/96	DW	
1,1-Dichloroethene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Methylene chloride	B6	µg/L	1.0	1	EPA 8260	06/27/96	DW	
trans-1,2-Dichloroethene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,1-Dichloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
cis-1,2-Dichloroethene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
2,2-Dichloropropane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Bromochloromethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Chloroform	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,1,1-Trichloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,1,1,2-tetrachloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Ethylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
m-Xylene/p-Xylene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Bromoform	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
o-Xylene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Styrene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,1,2,2-Tetrachloroethane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2,3-Trichloropropane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Isopropylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Bromobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
2-Chlorotoluene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
n-Propylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
4-Chlorotoluene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,3,5-Trimethylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
tert-Butylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/9(

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2,4-Trimethylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
sec-Butylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,3-Dichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
4-Isopropyltoluene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,4-Dichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2-Dichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
n-Butylbenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2-Dibromo-3-chloropropane	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2,4-Trichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Naphthalene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Hexachlorobutadiene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
1,2,3-Trichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	06/27/96	DW	
Dibromofluoromethane (Surr.)	107.	%	1.0		EPA 8260	06/27/96	DW	
Toluene-d8 (%)	102.	%	1.0		EPA 8260	06/27/96	DW	
p-Bromofluorobenzene (%)	102.	%	1.0		EPA 8260	06/27/96	DW	
Acetone	B10	µg/L	1.0	5.0	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: MIKE WAGNER
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1308-9
Report Date: 07/29/96
PO No. : 06.21.96
Project : 03886-118-004-0206

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
RINSATE BLANK	Aqueous	CLIENT	06/21/96	06/21/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	06/27/96	DW	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	06/27/96	DW	
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	06/27/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

07/29/96

LJO/jcbeaw/drt/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin Analytical Services, Inc.
Elements Section
Solid Preparation Blank (P B S)

Client:	Roy F. Weston
Work Order:	WM1308
Prep. Date:	06/26/96
QC Batch ID:	MF26ICS1

Method 3010 (HCl) Elements:	Method	Measured Conc. (mg/L)	Analysis Date	Acceptance Limit (mg/L)	Notes
Antimony	200.7/6010	<0.008	1-Jul-96	0.008	
Arsenic	200.7/6010	<0.008	1-Jul-96	0.008	
Beryllium	200.7/6010	<0.005	1-Jul-96	0.005	
Cadmium	200.7/6010	<0.010	1-Jul-96	0.010	
Chromium	200.7/6010	<0.015	1-Jul-96	0.015	
Copper	200.7/6010	<0.025	1-Jul-96	0.025	
Lead	200.7/6010	<0.005	1-Jul-96	0.005	
Nickel	200.7/6010	<0.040	1-Jul-96	0.040	
Selenium	200.7/6010	<0.010	1-Jul-96	0.010	
Thallium	200.7/6010	<0.015	1-Jul-96	0.015	
Zinc	200.7/6010	<0.025	1-Jul-96	0.025	

Notes:

1) Blank acceptance limits are equivalent to PQLs unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)

Katahdin Analytical Services, Inc.

Elements Section

Solid Laboratory Control Sample (LCSS)

Client:	Roy F. Weston
Work Order:	WM1308
Prep. Date:	06/26/96
QC Batch ID:	MF26ICS1

Method 3010 (HCl)	Sample Weight (g):		0.51	Final Volume, FV(m	100	Calculation Factor	196.1
Element:	**Measured Conc. (mg/L)**	**Measured Conc. (mg/kg)**	**Analysis Date**	**Reference Value (mg/kg)**	**PERCENT RECOVERY**	**Control Limits(mg/Kg)**	**Notes**
Antimony	0.242	47.5	1-Jul-96	37.2	128%	7.44-109	
Arsenic	1.19	233	1-Jul-96	228	102%	112-340	
Beryllium	0.330	64.7	1-Jul-96	64.9	100%	41.3-90.8	
Cadmium	0.280	54.9	1-Jul-96	51.4	107%	29.1-74.1	
Chromium	0.521	102	1-Jul-96	91.3	112%	48.8-129	
Copper	0.466	91.4	1-Jul-96	88.5	103%	50.5-128	
Lead	0.978	192	1-Jul-96	176	109%	92.8-251	
Nickel	0.520	102	1-Jul-96	94.0	108%	51.3-137	
Selenium	0.371	72.7	1-Jul-96	75.5	96.4%	39.5-112	
Thallium	0.384	75.3	1-Jul-96	64.3	117%	32.1-96.4	
Zinc	0.525	103	1-Jul-96	98.1	105%	53.0-146	

Notes:

1) The laboratory uses the published certified value and advisory range, respectively, as the true value and acceptance range for this commercially available solid reference material (trace metals in soil).

2) See cover letter for additional information. (if notated)

3) Analysis methods are the same as the analysis methods for the prep blank.

4) Lot 226 received 10-19-95

Katahdin Analytical Services, Inc.
Elements Section

Mercury

Client :	Roy F. Weston
Method:	7471
Work Order:	WM1308

Preparation Blank Soil (PBS)

Prep. Date	Analysis Date	QC Batch ID	Measured Conc. (ug/L)	Acceptance Limit (ug/L)
25-Jun-96	26-Jun-96	MF25HGS1	<0.10	0.10

Laboratory Control Sample Soil (LCSS)

Prep. Date	Analysis Date	QC Batch ID	Measured Conc. (ug/g)	Ref. Value (ug/g)	Calculated Rec. %	Control Limits (%)
25-Jun-96	26-Jun-96	MF25HGS1	3.97	3.30	120%	1.47-5.15

Notes:

1) Blank acceptance limits are equivalent ot PQL's unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)
3) See cover letter for additional information. (if notated)
4) The laboratory uses the published certified value and advisory range, respectively, as the true value and acceptance range for this commercially available solid reference material (trace metals in soil).

Katahdin Analytical Services, Inc.
Elements Section

Client:	Roy F. Weston
Work Order:	WM1308
Prep. Date:	06/26/96
QC Batch ID:	MF26ICW1

Aqueous Preparation Blank (P B W)

Method 3010 (HCl) Elements:	Method	Measured Conc. (mg/L)	Analysis Date	Acceptance Limit (mg/L)	Notes
Antimony	200.7/6010	<0.008	28-Jun-96	0.008	
Arsenic	200.7/6010	<0.008	28-Jun-96	0.008	
Beryllium	200.7/6010	<0.005	28-Jun-96	0.005	
Cadmium	200.7/6010	<0.010	28-Jun-96	0.010	
Chromium	200.7/6010	<0.015	28-Jun-96	0.015	
Copper	200.7/6010	<0.025	28-Jun-96	0.025	
Lead	200.7/6010	<0.005	28-Jun-96	0.005	
Nickel	200.7/6010	<0.040	28-Jun-96	0.040	
Selenium	200.7/6010	<0.010	28-Jun-96	0.010	
Silver	200.7/6010	<0.015	28-Jun-96	0.015	
Thallium	200.7/6010	<0.015	28-Jun-96	0.015	
Zinc	200.7/6010	<0.025	28-Jun-96	0.025	

Notes:

1) Blank acceptance limits are equivalent to PQLs unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)

			Mercury		
Prep. Date	Analysis Dat	QC Batch ID	Measured Conc. (ug/L)	Acceptance Limit (ug/L)	Notes
26-Jun-96	27-Jun-96	MD26HGW1	<0.20	0.20	

Katahdin Analytical Services, Inc.
Elements Section

Client:	Roy F. Weston
Work Order:	WM1308
Prep. Date:	06/26/96
QC Batch ID:	MF26ICW1

Aqueous Laboratory Control Sample (LCSW)

Method 3010 (HCl) Element:	Measured Conc. (mg/L)	Analysis Date	True Value (mg/L)	Calculated Rec (%)	Control Limits (%)	Notes
Antimony	0.482	28-Jun-96	0.500	96%	80.0-120	
Arsenic	2.01	28-Jun-96	2.00	101%	80.0-120	
Beryllium	0.049	28-Jun-96	0.050	97.0%	80.0-120	
Cadmium	0.051	28-Jun-96	0.050	102%	80.0-120	
Chromium	0.203	28-Jun-96	0.200	102%	80.0-120	
Cobalt	0.250	28-Jun-96	0.250	100%	80.0-120	
Lead	0.509	28-Jun-96	0.500	102%	80.0-120	
Nickel	0.527	28-Jun-96	0.500	105%	80.0-120	
Selenium	1.98	28-Jun-96	2.00	99.0%	80.0-120	
Silver	0.049	28-Jun-96	0.050	97.2%	80.0-120	
Thallium	2.09	28-Jun-96	2.00	105%	80.0-120	
Zinc	0.515	28-Jun-96	0.500	103%	80.0-120	

Notes:

1) LCS control limits are nominal values, effective 9/15/93

2) See cover letter for additional information. (if notated)

3) Analysis methods are the same as the analysis methods for the prep blank.

			Mercury			
Prep. Date	Analysis Dat	QC Batch ID	Measured Conc. (ug/L)	Ref. Value (ug/L)	alculate Rec. %	Control limits (%
26-Jun-96	27-Jun-96	MD26HGW1	10.7	10.0	107%	80-120

7/12/96

Katahdin Analytical Services, Inc.
Quality Control Report

Method Blank and Laboratory Control Sample Results

Client: Roy F. Weston
Work Order: WM1308

			METHOD BLANK RESULTS					*LABORATORY CONTROL SAMPLE RESULTS*					
Parameter	Date of Prep	Date of Analysis	Units	Concentration Measured in Blank		Acceptance Range	Practical Quantitation Level**	Units	True Value	Measured Value	Percent Recovered	Acceptance Range (%)	Acceptance Range (mg/kg)
TS -Total Residue	25-Jun-96	26-Jun-96	wt %	< 0.10	<	0.10	0.10						
Ignitability (Flash Point)	27-Jun-96	27-Jun-96	° C	NA		NA	25	° C	27.0	26.0	96.3	80-120	
pH-Soil	25-Jun-96	25-Jun-96	pH units	NA		NA	NA	pH units	7.00	6.96	99.4	80-120	
Reactivity - Cyanide	26-Jun-96	01-Jul-96	mg/kg	< 2.0	<	2.0	2.0	ug/L	400	109	27.3	10-100	
Reactivity - Sulfide	26-Jun-96	26-Jun-96	mg/kg	< 27	<	27	27	mg	8.34	7.08	84.9	50-150	
Total Petroleum Hydrocarbons	01-Jul-96	03-Jul-96	mg/kg	< 25	<	25	25	mg	2.51	2.54	101	57-137	@

** Practical quantitation level is the lowest concentration measurable for samples with normal chemical and physical composition during routine laboratory operations.

DATA QUALITY COMMENTS:
Results of all quality control measurements are within the laboratory and method specified acceptance range except as noted.

@ The laboratory uses the internally established statistical 99% confidence range as the acceptance range for this LCS.

000101
7/12/96 ET

Client:
Work Order:

7/2/96

Katahdin Analytical Services
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

Pesticides/PCB'S by GC Method:	8081
Sample Preparation Technique:	3550

Soil Matrix

CHRONOLOGY

KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~	KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~
WM1308-1	6/26/96	6/28/96	JU1A191	1.0					
WM1308-2	6/26/96	6/29/96	JU1A191	1.0					
WM1308-3	6/26/96	6/29/96	JU1A191	4.0					
WM1308-4	6/26/96	6/29/96	JU1A191	1.0					

METHOD BLANK RESULTS*

Compound	Conc. (ug/Kg)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

0000102
0000002

FT
7/17/96

Client:
Work Order:

7/2/96

KATAHDIN ANALYTICAL SERVICES
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

PCBs by GC Method:	8081
Sample Preparation Technique:	3550

Soil/Solid Matrix

CHRONOLOGY

KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~	KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~
WM1308-5	6/26/96	6/29/96	JU1A193	1.0					
WM1308-6	6/26/96	6/29/96	JU1A193	1.0					

METHOD BLANK RESULTS*

Compound	Conc. (ug/kg)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not inlcude the correction factor for conversion to dry weight.

0000103
0000008
7/12/

Client:
Work Order:

7/2/96

Katahdin Analytical Services
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

Pesticides/PCB's by GC Method:	8081
Sample Preparation Technique:	3510

Water Matrix

CHRONOLOGY

KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~	KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~
WM1308-9	6/26/96	6/28/96	JU1A189	1.0					

METHOD BLANK RESULTS*

Compound	Conc (ug/l)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

Katahdin Analytical Services, Inc.
Quality Control Report

Laboratory Control Spike/Laboratory Control Spike Duplicate Results

Client:	Weston
Work Order:	WM1308

Pesticides/PCBs by GC Method: 8081

Sample Preparation Technique: 3550

Soil Matrix

Date of Extraction: 6/26/96 Sample Name: LCP0070A

Date of Analysis: 6/28/96 Files: JU1A191.rst

Compound	Spike Added (ug/L)	LCS Concentration (ug/L)	LCSD Concentration (ug/L)	LCS % Recovery	LCSD % Recovery	Acceptance Range (%)	RPD	RPD Limit
4,4'-DDD	13.3	12.9	N/A	97	N/A	31-141	N/A	0-30
4,4'-DDE	13.3	12.8	N/A	96	N/A	30-145	N/A	0-30
4,4'-DDT	13.3	13.2	N/A	99	N/A	25-160 ^	N/A	0-36 ^
Aldrin	13.3	12.2	N/A	91	N/A	47-104 ^	N/A	0-29 ^
alpha-BHC	13.3	12.2	N/A	92	N/A	37-134	N/A	0-30
beta-BHC	13.3	13.3	N/A	100	N/A	17-147	N/A	0-30
delta-BHC	13.3	12.9	N/A	97	N/A	19-140	N/A	0-30
Dieldrin	13.3	13.0	N/A	98	N/A	68-127 ^	N/A	0-24 ^
Endosulfan I	13.3	13.0	N/A	98	N/A	45-153	N/A	0-30
Endosulfan II	13.3	13.2	N/A	99	N/A	D-202	N/A	0-30
Endosulfan Sulfate	13.3	13.6	N/A	102	N/A	26-144	N/A	0-30
Endrin	13.3	12.8	N/A	96	N/A	66-135 ^	N/A	0-21 ^
Endrin Aldehyde	13.3	12.2	N/A	91	N/A	**	N/A	0-30
Endrin Ketone	13.3	13.5	N/A	101	N/A	**	N/A	0-30
gamma-BHC (Lindane)	13.3	12.5	N/A	94	N/A	58-131 ^	N/A	0-24 ^
Heptachlor	13.3	13.2	N/A	99	N/A	49-121 ^	N/A	0-19 ^
Heptachlor Epoxide	13.3	13.4	N/A	100	N/A	37-142	N/A	0-30
Methoxychlor	13.3	15.2	N/A	114	N/A	**	N/A	0-30

Surrogate Recovery: TCMX: 76%

DCB: 75%

* Acceptance range as specified in EPA Method 8081; insufficient laboratory data are available to generate statistically based limits.

^ The laboratory uses the internally established 99% confidence ranges and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

** EPA method 8081 does not specify acceptance criteria for this compound; insufficient laboratory data are available to generate statistically based limits.

Katahdin Analytical Services, Inc
Quality Control Report

Laboratory Control Sample Results

Client: Weston
Work Order: WM1308

PCBs by GC Method: 8080
Sample Preparation Technique: 3550

Soil/Solid Matrix

Date of Extraction: 6/26/96
Date of Analysis: 6/28/96

Sample #: LCP0070B
File #: JU1A193.rst

Analyte	Units	Spike Amount	LCS Measured Conc.	LCSD Dup. Measured Conc.	LCS % Recovery	LCSD Dup. % Recovery	Recovery Acceptance Limits	RPD	RPD Acceptance Limits
Arochlor 1254	ug/kg	167	143	N/A	86	N/A	39-115	N/A	0-28

Surrogate Recovery: TCMX: 65%
DCB: 81%

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample duplicate (LCS/LCS sets employed for organic analyses. All spike recoveries must be equal to or greater than ten percent, and a minimum of ninety percent of the total number of calculated recoveries plus relative percent differences (RPDs) must be within the specified acceptance ranges.

000000 960106 7/1/96 Ft

Katahdin Analytical Services, Inc.
Quality Control Report

Laboratory Control Spike/Laboratory Control Spike Duplicate Results

Client: Weston	
Work Order: WM1308	

Pesticides/PCBs by GC Method: 8081

Sample Preparation Technique: 3510

Water Matrix

Date of Extraction: 6/26/96 Sample Name: LCP0071

Date of Analysis: 6/28/96 Files: JU1A189.rst

% Compound	Spike Added (ug/L)	LCS Concentration (ug/L)	LCSD Concentration (ug/L)	LCS % Recovery	LCSD % Recovery	% Recovery Limits	RPD	RPD Limits
4,4'-DDD	0.40	0.347	N/A	87	N/A	31-141	N/A	0-30
4,4'-DDE	0.40	0.343	N/A	86	N/A	30-145	N/A	0-30
4,4'-DDT	0.40	0.353	N/A	88	N/A	25-160 ^	N/A	0-36 ^
Aldrin	0.40	0.317	N/A	79	N/A	47-104 ^	N/A	0-29 ^
alpha-BHC	0.40	0.319	N/A	80	N/A	37-134	N/A	0-30
beta-BHC	0.40	0.358	N/A	90	N/A	17-147	N/A	0-30
delta-BHC	0.40	0.342	N/A	86	N/A	19-140	N/A	0-30
Dieldrin	0.40	0.350	N/A	88	N/A	68-127 ^	N/A	0-24 ^
Endosulfan I	0.40	0.353	N/A	88	N/A	45-153	N/A	0-30
Endosulfan II	0.40	0.358	N/A	90	N/A	D-202	N/A	0-30
Endosulfan Sulfate	0.40	0.365	N/A	91	N/A	26-144	N/A	0-30
Endrin	0.40	0.348	N/A	87	N/A	66-135 ^	N/A	0-21 ^
Endrin Aldehyde	0.40	0.332	N/A	83	N/A	**	N/A	0-30
Endrin Ketone	0.40	0.367	N/A	92	N/A	**	N/A	0-30
gamma-BHC (Lindane)	0.40	0.331	N/A	83	N/A	58-131 ^	N/A	0-24 ^
Heptachlor	0.40	0.338	N/A	85	N/A	49-121 ^	N/A	0-19 ^
Heptachlor Epoxide	0.40	0.359	N/A	90	N/A	37-142	N/A	0-30
Methoxychlor	0.40	0.421	N/A	105	N/A	**	N/A	0-30

Surrogate Recovery: TCMX: 73%

DCB: 69%

* Acceptance range as specified in EPA Method 8081; insufficient laboratory data are available to generate statistically based limits.

^ The laboratory uses the internally established 99% confidence ranges and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

** EPA method 8081 does not specify acceptance criteria for this compound; insufficient laboratory data are available to generate statistically based limits.

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

DRO by GC Method: 8015M DRO

Water

BLANK: BF0095

CHRONOLOGY

KAS Sample Nos.	Date Extracted	Date Analyzed	DF~	KAS Sample Nos.	Date Extracted	Date Analyzed	DF~
WM1308-9	06/26/96	07/03/96	1				

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Blank results listed correspond to the extraction blank prepared with the above samples on date of extraction.
Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

0008108
0000008

FT
7/12/96

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Client: Roy F Weston
Work Order #: WM1308

Laboratory Control Sample Results

DRO by GC Method: 8015M DRO

Water Matrix

Date of Extraction: 06/26/96
LCS number: LCF0095A
Date of Analysis: 07/03/96

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS Dup. Measured Conc.	LCS % Recovery	LCS Dup. % Recovery	Recovery Acceptance Range (%)	Relative Percent Difference	RPD Acceptance Range (%)
DRO Components	ug/L	500	385	NA	77	NA	60-140	NA	0-20
O-terphenyl	ug/L	20.0	16.5	NA	83	NA	59-121	NA	0-20

NA = Not Applicable

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1308

Methods, Chronology of Analysis and Method Blank Results

GRO by GC Method: 8015M

Water Matrix

CHRONOLOGY

Sample Nos.	Date Analyzed	Dilution Factor~	Sample Nos.	Date Analyzed	Dilution Factor~
WM1308-9	06-26-96	1			

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

8000110
~~0000010~~ FT 7/12/96

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1308

Methods, Chronology of Analysis and Method Blank Results

GRO by GC Method EPA 8015M

Soil Matrix

CHRONOLOGY

Sample Nos.	Date Extracted	Date Analyzed	Dilution Factor~	Sample Nos.	Date Extracted	Date Analyzed	Dilution Factor~
WM1308-1	06-26-96	06-26-96	1				
WM1308-2	06-26-96	06-26-96	1				
WM1308-3	06-26-96	06-27-96	1				
WM1308-4	06-26-96	06-27-96	1				
WM1308-4MS	06-26-96	06-26-96	1				
WM1308-4MSD	06-26-96	06-26-96	1				

METHOD BLANK RESULTS*

Compound	Conc. (mg/kg)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1308

Laboratory Control Sample Results

GRO by GC Method: EPA 8015M

Water Matrix

Result File: JU01112.RST
Date of Analysis: 06-26-96

Compound	Units	Spike Conc.	LCS Measured Conc.	LSC Dup. Measured Conc.	LCS % Recovery	LSC Dup. % Recovery	Recovery Acceptance Range (%) *	RPD (%)	RPD Acceptance Range (%) *
GRO	ug/L	100	111	NR	111	NR	75-125	NR	0-25

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sets employed for organic analyses.

NR= Not Required

0000112

F-7
7/12/

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1308

Laboratory Control Sample Results

GRO by GC Method: EPA 8015M

Soil Matrix

Result File: JU01115.RST
Date of Analysis: 06-26-96

Compound	Units	Spike Conc.	LCS Measured Conc.	LCSD Dup. Measured Conc.	LCS % Recovery	LCSD Dup. % Recovery	Recovery Acceptance Range (%)	RPD	RPD Acceptance Range (%)
GRO	mg/kg	25.0	26.2	NR	104.8	NR	60-140	NR	0-25

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sets employed for organic analyses.

0000113 ~~0000013~~ 7/12/9

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston

Work Order: WM1308

Matrix Spike/Matrix Spike Duplicate Results

GRO by GC Method: ME DEP 4.2.17

Soil Matrix

Sample No. Spiked: WM1308-4

Compound	Units	Spike Conc.	Sample Conc.	MS Measured Conc.	MSD Measured Conc.	Theoretical Spiked Sample Conc.	MS % Recovery	MSD % Recovery	Recovery Acceptance Range (%) *	RPD (%)	RPD Acceptance Range (%) *
GRO	mg/kg	27.5	< 2.75	26.8	29.5	27.5	97	107	60-140	9.8	0-20

* Acceptance ranges are obtained when available from the applicable US EPA analytical method. These ranges are based upon method performance data generated from the analysis of quality control check samples and not actual environmental samples. The laboratory does not use the MS/MSD acceptance ranges as quality control acceptance criteria; the MS/MSD data are used to evaluate method performance for the environmental sample matrix. Please refer to LCS/LCSD data for assessment of quality control for this method.

NA = Not applicable.

QV0114 FF 7/12/96

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Methods, Chronology of Analysis and Method Blank Results

Volatile Analysis by GC/MS Method: 8260

Water Matrix

CHRONOLOGY

Sample No.	Date Analyzed	ICAL File	Dilution Factor	Sample No.	Date Analyzed	BFB File	Dilution Factor
WM1308-8	06/27/96	I3205	1.0				
WM1308-9	06/27/96	I3205	1.0				

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)
Acetone	J3
Methylene Chloride	1
Chloroform	J0.6

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Methods, Chronology of Analysis and Method Blank Results

Volatile Analysis by GC/MS Method: 8260

Soil/Solid Matrix

CHRONOLOGY

Sample No.	Date Analyzed	GC/MS Blk	Dilution Factor	Sample No.	Date Analyzed	GC/MS Blk	Dilution Factor
WM1308-1	06/27/96	F7404	1.0				
WM1308-3	06/27/96	F7404	1.0				
WM1308-7	06/27/96	F7404	1.0				

METHOD BLANK RESULTS*

Compound	Conc. (ug/g)
Acetone	J2
2-Butanone	J1
Methylene Chloride	1
Chloroform	J0.6
1,4-Dichlorobenzene	J0.7
1,2-Dichlorobenzene	J0.7
1,2-Dibromo-3-chloropropane	J0.6
1,2,4-Trichlorobenzene	J0.5
Hexachlorobutadiene	J0.7
Napthalene	J0.8
1,2,3-Trichlorobenzene	J0.6

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Methods, Chronology of Analysis and Method Blank Results

Volatile Analysis by GC/MS Method: 8260

Soil/Solid Matrix

CHRONOLOGY

Sample Nos	Date Analyzed	VCS BLC	Dilution Factor	Sample Nos	Date Analyzed	VCS BLC	Dilution Factor
WM1308-2	06/29/96	F7473	1.0				
WM1308-4	06/29/96	F7473	1.0				

METHOD BLANK RESULTS*

Compound	Conc. (ug/kg)
Methylene Chloride	J0.8
m+p Xylene	J0.8
1,3,5-Trimethylbenzene	J0.6
1,2,4-Trimethylbenzene	J0.8
Acetone	J2
2-Butanone	J2

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Laboratory Control Sample Results

Volatile Organics by GC/MS Method: 8260

Water Matrix

Date of Analysis: 06/27/96 Files: I3205.D

1,1-Dichloroethene	ug/l	50	48.4	97	53-136
Trichloroethene	ug/l	50	48.5	97	76-119
Benzene	ug/l	50	48.5	97	78-128
Toluene	ug/l	50	47.3	95	75-121
Chlorobenzene	ug/l	50	48.2	96	74-125

* The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Laboratory Control Sample Results

Volatile Organics by GC/MS Method: 8260

Soil Matrix

Date of Analysis: 06/27/96 Files: F7404.D

Analyte	Units	Spike Amount	Result	% Recovery	Recovery Acceptance Range*
1,1-Dichloroethene	ug/kg	50	53.4	107	56-137
Trichloroethene	ug/kg	50	51.8	104	55-140
Benzene	ug/kg	50	50.7	101	67-130
Toluene	ug/kg	50	51.2	102	65-126
Chlorobenzene	ug/kg	50	51.1	102	69-125

*The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Laboratory Control Sample Results

Volatile Organics by GC/MS Method: 8260

Soil Matrix

Date of Analysis: 06/29/96 Files: F7473.D

1,1-Dichloroethene	ug/kg	50	48.4	97	56-137
Trichloroethene	ug/kg	50	47.2	94	55-140
Benzene	ug/kg	50	45.8	92	67-130
Toluene	ug/kg	50	47.3	95	65-126
Chlorobenzene	ug/kg	50	47.8	96	69-125

*The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Methods, Chronology of Analysis and Method Blank Results

Semivolatile Organics by GC/MS Method:	8270
Sample Preparation Technique:	3550

Soil/Solid Matrix

CHRONOLOGY

Sample No.	Date Received	Date Analyzed	GC/MS File	Dilution Factor	Sample No.	Date Received	Date Analyzed	GC/MS File	Dilution Factor
WM1308-1	06/26/96	06/28/96	Z1161	1.0					
WM1308-2	06/26/96	07/01/96	Z1161	1.0					
WM1308-3	06/26/96	07/01/96	Z1161	1.0					
WM1308-4	06/26/96	07/01/96	Z1161	1.0					
WM1308-7	06/26/96	07/01/96	Z1161	1.0					

METHOD BLANK RESULTS*

Compound	Concentration

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and ana For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

0000121 FT
~~0000021~~ 7/12/1

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Methods, Chronology of Analysis and Method Blank Results

Semivolatile Organics by GC/MS Method: 8270B
Sample Preparation Technique: 3520A

Water Matrix

CHRONOLOGY

Sample No.	Date Received	Date Analyzed	QC Batch ID	Dilution Factor	Sample No.	Date Received	Date Analyzed	QC Batch ID	Dilution Factor
WM1308-9	06/27/96	07/09/96	Z1159	1.1					

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)
bis(2-Ethylhexyl)Phthalate	J1

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and ana For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

0000122 F1
~~0000022~~ 7/12/96

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Laboratory Control Sample Results

Semivolatile Organics by GC/MS Method: 8270
Sample Preparation Technique: 3550

Soil/Solid Matrix

Date of Extraction: 06/26/96
Date of Analysis: 07/03/96

File: Z1161

Compound	Units	Spike Added	Spike Result	Recovery	Recovery Limits*	RPD Limits*
Phenol	ug/Kg	3333	2340	70	40-117	0-32
2-Chlorophenol	ug/Kg	3333	2450	74	43-120	0-28
1,4-Dichlorobenzene	ug/Kg	1667	1220	73	43-129	0-27
N-Nitroso-di-n-propylamine	ug/Kg	1667	1220	73	41-141	0-26
1,2,4-Trichlorobenzene	ug/Kg	1667	1180	71	39-132	0-21
4-Chloro-3-methylphenol	ug/Kg	3333	2640	79	5-146	0-31
Acenaphthene	ug/Kg	1667	1290	77	43-132	0-25
4-Nitrophenol	ug/Kg	3333	3030	91	D-154	0-74
2,4-Dinitrotoluene	ug/Kg	1667	1220	73	6-127	0-51
Pentachlorophenol	ug/Kg	3333	2670	80	D-164	0-106
Pyrene	ug/Kg	1667	1360	82	29-169	0-54

* The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

6000123 FT
~~9000023~~ 7/12/9

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1308

Laboratory Control Sample Results

Semivolatile Organics by GC/MS Method: 8270B
Sample Preparation Technique: 3520A

Water Matrix

Date of Extraction: 06/27/96
Date of Analysis: 07/03/96

File: Z1159

Compound	Units	Spike Amount	Result	Recovery	Recovery Limits	RPD
Phenol	ug/L	100	69.0	69	32-145	0-26
2-Chlorophenol	ug/L	100	75.2	75	48-143	0-27
1,4-Dichlorobenzene	ug/L	50	25.9	52	44-128	0-24
N-Nitroso-di-n-propylamine	ug/L	50	38.5	77	55-141	0-24
1,2,4-Trichlorobenzene	ug/L	50	29.2	58	40-137	0-27
4-Chloro-3-methylphenol	ug/L	100	84.4	84	53-135	0-30
Acenaphthene	ug/L	50	39.7	79	59-136	0-18
4-Nitrophenol	ug/L	100	98.9	99	11-129	0-42
2,4-Dinitrotoluene	ug/L	50	39.1	78	40-121	0-32
Pentachlorophenol	ug/L	100	97.6	98	D-144	0-59
Pyrene	ug/L	50	43.7	87	47-149	0-33

*The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

0000124 FF
~~0000024~~ 7/12/96

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400

CHAIN of CUSTODY

* PLEASE PRINT IN PEN

Page ___ of ___

Client	Contact	Phone #	Fax #
Weston / ACoE	Mike Wagner	(508) 772-7190	(508) 772-725

Address	City	State	Zip Code
P.O. Box 425	Ayer	MA	01432-0425

P.O. # | Proj. Name/No. 03886-118-004-0206

Bill (if different than above) | Address

Sample (Print/Sign) | Copies To:

LAB USE ONLY WORK ORDER #: WM1308

KATAHDIN PROJECT MANAGER _____

REMARKS: _____

SHIPPING INFO: ☐ FED EX ☐ UPS ☐ CLIENT

AIRBILL NO: _____

TEMP°C _____ ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date/Time coll'd	Matrix	Filt. Y/N	No. of Cntrs.	VOC 8260	SVOC 8270	Pest/PCB 8080/3540	PP Metals 6010/7061	TRPH 8015	VOC 8260 per Mike Wagner (3)	Ignit, Reactivity, Corros	Paint Filter	TPH 418.1	PCB 8080/3540
*	69AF-1	6/21/96/1300	soil	N	8	4	1	1	1	1					
	69AF-2	6/21/96/1320	soil	N	6	2	1	1	1	1					
	69AF-3	6/21/96/1320	soil	N	6	2	1	1	1	1					
(MS)	Trip Blank	6/21/96/0800	water	N	2	2									
	Temp Blank	6/21/96/0800	water	N	+2										
	Rinsate Blank	6/21/96/1500	water	N	10	3	2	2	1	2					
	61Z-WC1	6/21/96/1430	soil	N	6		1				2	1	1	1	
	66A-1	6/21/96/1010	soil	N	1										1
	66A-2	6/21/96/1010	soil	N	1										1
	69AF-4	6/21/96/1350	soil	N	6	2	1	1	1	1					
	~~69AF-5~~	~~6/21/96/1400~~	~~soil~~	~~N~~	~~6~~	2	1	1	1	1					
		/													
		/													
		/													
		/													
		/													

Analysis cancelled by client. 062496

COMMENTS
* MS/MSD sample
All sample results must meet minimum detection limits required by MAMCP S1/GW1.

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
[signature]	6/21/96 1530				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
				6/24/96 0900	[signature] Fed Ex 8000128 7112

ATTACHMENT I

AOC 43G

SAND AND GAS TRAP - AREA 3
STOCKPILED SOIL WASTE CHARACTERIZATION
ROY F. WESTON, INC.

Samples collected July 15 and September 3, 1996

Katahdin
ANALYTICAL SERVICES

August 19, 1996

Mr. Bill Dale
Roy F. Weston
P.O. Box 425
Ayer, MA 01432

RE: Katahdin Lab Numbers: WM1500
Project ID: Fort Devens
Project Manager: Ms. Lil Pepin
Sample Receipt Date: July 16, 1996

Dear Mr. Dale:

Please find enclosed the following information:

* Report of Analysis (Reissue)
* Quality Control Data Summary
* Confirmation
* Chain of Custody

We have corrected the sample identification and reissued the Report of Analysis. We apologize for any inconvenience this error may have caused you.

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Deborah J. Nadeau
Authorized Signature

8·19·96
Date

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-1
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC1	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP*Extraction	****	****	1.0	****	1311	07/18/96	DE	1
TCLP-Arsenic	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Barium	0.626	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Cadmium	<0.100	mg/L	5.0	0.100	6010	07/19/96	EM	2
TCLP-Chromium	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Lead	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Mercury	<2.0	µg/L	1.0	2.0	245.1	07/19/96	DE	3
TCLP-Selenium	<0.100	mg/L	5.0	0.100	7740	07/19/96	EM	2
TCLP-Silver	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/17/96 by DJE using 1311
(2) Sample Preparation on 07/18/96 by DJE using 3010
(3) Sample Preparation on 07/18/96 by DJE using 7470

08/19/96

LJO/kdwkdw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-1
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC1	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	90.	wt %	1.0	0.10	CLP/CIP SOW	07/17/96	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/16/96 by JF

08/19/96

LJO/ejnlp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-1
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC1	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Total Petroleum Hydrocarbons (TPH)	1700	mg/kgdrywt	10	25	418.1	07/20/96	NN	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value:
(1) Sample Preparation on 07/18/96 by DEW

08/19/96

LJO/ejnlp(dw)/pph

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-1
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC1	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Herbicides by USEPA 8150								1
2,4-D	<5.5	µg/L	1.1	5	8150	07/27/96	SW	
2,4,5-TP (Silvex)	<5.5	µg/L	1.1	5	8150	07/27/96	SW	
2,4-Dichlorophenylacetic acid	55.	%	1.1		8150	07/27/96	SW	
TCLP Pesticides by USEPA 1311/8080								2
TCLP - gamma-BHC (Lindane)	<0.3	µg/L	1	0.25	1311/8080	07/22/96	SW	
TCLP - Heptachlor	<0.3	µg/L	1	0.25	1311/8080	07/22/96	SW	
TCLP - Heptachlor Epoxide	<0.3	µg/L	1	0.25	1311/8080	07/22/96	SW	
TCLP - Endrin	<0.5	µg/L	1	0.50	1311/8080	07/22/96	SW	
TCLP - Methoxychlor	<2.5	µg/L	1	2.5	1311/8080	07/22/96	SW	
TCLP - Chlordane	<2.5	µg/L	1	2.5	1311/8080	07/22/96	SW	
TCLP - Toxaphene	<5.	µg/L	1	5.0	1311/8080	07/22/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	73.	%	1		1311/8080	07/22/96	SW	
Decachlorobiphenyl (% Recovery)	80.	%	1		1311/8080	07/22/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/96 by NEN using EPA 1311/8150
(2) Sample Preparation on 07/19/96 by ACB using EPA 1311/3510

08/19/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-1
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC1	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Semivolatile Organics by USEPA 1311/8270								1
Pyridine	<250.	µg/L	5.0	50	1311/8270	07/23/96	JC	
1,4-Dichlorobenzene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
2-Methylphenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
3-Methylphenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
4-Methylphenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Hexachloroethane	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Nitrobenzene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Hexachlorobutadiene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
2,4,6-Trichlorophenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
2,4,5-Trichlorophenol	<130.	µg/L	5.0	25	1311/8270	07/23/96	JC	
2,4-Dinitrotoluene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Hexachlorobenzene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Pentachlorophenol	<130.	µg/L	5.0	25	1311/8270	07/23/96	JC	
2-Fluorophenol (% Recovery)	39.	%	5.0		1311/8270	07/23/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/18/96 by ACB using EPA 1311/8270

08/19/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-1
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC1	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenol-d5 (% Recovery)	35.	%	5.0		1311/8270	07/23/96	JC	
Nitrobenzene-d5 (% Recovery)	61.	%	5.0		1311/8270	07/23/96	JC	
2-Fluorobiphenyl (% Recovery)	63.	%	5.0		1311/8270	07/23/96	JC	
2,4,6-Tribromophenol (% Recovery)	40.	%	5.0		1311/8270	07/23/96	JC	
Terphenyl-d14 (% Recovery)	58.	%	5.0		1311/8270	07/23/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/19/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-1
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC1	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Volatile Organics by USEPA Method 1311/8260								1
Benzene	<5	µg/L	1.0	5	1311/8240	07/19/96	DW	
Carbon Tetrachloride	<5	µg/L	1.0	5	1311/8240	07/19/96	DW	
Chlorobenzene	<5	µg/L	1.0	5	1311/8240	07/19/96	DW	
Chloroform	<5	µg/L	1.0	5	1311/8240	07/19/96	DW	
1,2-Dichloroethane	<5	µg/L	1.0	5	1311/8240	07/19/96	DW	
1,1-Dichloroethene	<5	µg/L	1.0	5	1311/8240	07/19/96	DW	
2-Butanone	<15	µg/L	1.0	15	1311/8240	07/19/96	DW	
Tetrachloroethene	<5	µg/L	1.0	5	1311/8240	07/19/96	DW	
Trichloroethene	<5	µg/L	1.0	5	1311/8240	07/19/96	DW	
Vinyl chloride	<10	µg/L	1.0	10	1311/8240	07/19/96	DW	
1,2-Dichloroethane-d4 (% Recovery)	105.	%	1.0		1311/8240	07/19/96	DW	
Toluene-d8 (% Recovery)	101.	%	1.0		1311/8240	07/19/96	DW	
p-Bromofluorobenzene (% Recovery)	102.	%	1.0		1311/8240	07/19/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/17/96 by DAW using EPA 1311/5030

08/19/96

LJO/jcbeaw/kwh/lp(dw)/pr

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-2
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC2	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP*Extraction	****	****	1.0	****	1311	07/18/96	DE	1
TCLP-Arsenic	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Barium	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Cadmium	<0.100	mg/L	5.0	0.100	6010	07/19/96	EM	2
TCLP-Chromium	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Lead	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Mercury	<2.0	µg/L	1.0	2.0	245.1	07/19/96	DE	3
TCLP-Selenium	<0.100	mg/L	5.0	0.100	7740	07/19/96	EM	2
TCLP-Silver	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/17/96 by DJE using 1311
(2) Sample Preparation on 07/18/96 by DJE using 3010
(3) Sample Preparation on 07/18/96 by DJE using 7470

08/19/96

LJO/kdwkdw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-2
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC2	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	91.	wt %	1.0	0.10	CLP/CIP SOW	07/17/96	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/16/96 by JF

08/19/96

LJO/ejnlp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-2
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC2	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Petroleum Hydrocarbons (TPH)	1400	mg/kgdrywt	10	25	418.1	07/20/96	NN	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/18/96 by DEW

08/19/96

LJO/ejnlp(dw)/pph

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-2
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC2	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
TCLP Herbicides by USEPA 8150								1
2,4-D	<5.	µg/L	1.0	5	8150	07/27/96	SW	
2,4,5-TP (Silvex)	<5.	µg/L	1.0	5	8150	07/27/96	SW	
2,4-Dichlorophenylacetic acid	63.	%	1.0		8150	07/27/96	SW	
TCLP Pesticides by USEPA 1311/8080								2
TCLP - gamma-BHC (Lindane)	<0.3	µg/L	1	0.25	1311/8080	07/22/96	SW	
TCLP - Heptachlor	<0.3	µg/L	1	0.25	1311/8080	07/22/96	SW	
TCLP - Heptachlor Epoxide	<0.3	µg/L	1	0.25	1311/8080	07/22/96	SW	
TCLP - Endrin	<0.5	µg/L	1	0.50	1311/8080	07/22/96	SW	
TCLP - Methoxychlor	<2.5	µg/L	1	2.5	1311/8080	07/22/96	SW	
TCLP - Chlordane	<2.5	µg/L	1	2.5	1311/8080	07/22/96	SW	
TCLP - Toxaphene	<5.	µg/L	1	5.0	1311/8080	07/22/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	68.	%	1		1311/8080	07/22/96	SW	
Decachlorobiphenyl (% Recovery)	80.	%	1		1311/8080	07/22/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values
(1) Sample Preparation on 07/25/96 by NEN using EPA 1311/8150
(2) Sample Preparation on 07/19/96 by ACB using EPA 1311/3510

08/19/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-2
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC2	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Semivolatile Organics by USEPA 1311/8270								1
Pyridine	<250.	µg/L	5.0	50	1311/8270	07/23/96	JC	
1,4-Dichlorobenzene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
2-Methylphenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
3-Methylphenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
4-Methylphenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Hexachloroethane	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Nitrobenzene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Hexachlorobutadiene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
2,4,6-Trichlorophenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
2,4,5-Trichlorophenol	<130.	µg/L	5.0	25	1311/8270	07/23/96	JC	
2,4-Dinitrotoluene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Hexachlorobenzene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Pentachlorophenol	<130.	µg/L	5.0	25	1311/8270	07/23/96	JC	
2-Fluorophenol (% Recovery)	36.	%	5.0		1311/8270	07/23/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/18/96 by ACB using EPA 1311/8270

08/19/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-2
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G3-DC2	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenol-d5 (% Recovery)	34.	%	5.0		1311/8270	07/23/96	JC	
Nitrobenzene-d5 (% Recovery)	63.	%	5.0		1311/8270	07/23/96	JC	
2-Fluorobiphenyl (% Recovery)	65.	%	5.0		1311/8270	07/23/96	JC	
2,4,6-Tribromophenol (% Recovery)	36.	%	5.0		1311/8270	07/23/96	JC	
Terphenyl-d14 (% Recovery)	65.	%	5.0		1311/8270	07/23/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/19/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-2
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC2	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Volatile Organics by USEPA Method 1311/8260								1
Benzene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Carbon Tetrachloride	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Chlorobenzene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Chloroform	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
1,2-Dichloroethane	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
1,1-Dichloroethene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
2-Butanone	<15.	µg/L	1.0	15	1311/8240	07/19/96	DW	
Tetrachloroethene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Trichloroethene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Vinyl chloride	<10.	µg/L	1.0	10	1311/8240	07/19/96	DW	
1,2-Dichloroethane-d4 (% Recovery)	104.	%	1.0		1311/8240	07/19/96	DW	
Toluene-d8 (% Recovery)	99.	%	1.0		1311/8240	07/19/96	DW	
p-Bromofluorobenzene (% Recovery)	101.	%	1.0		1311/8240	07/19/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/17/96 by DAW using EPA 1311/5030

08/19/96

LJO/jcbeaw/kwh/lp(dw)/pr

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-3
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC3	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP*Extraction	****	****	1.0	****	1311	07/18/96	DE	1
TCLP-Arsenic	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Barium	0.515	mg/L	5.0	0.500	6010	07/19/96	EM	
TCLP-Cadmium	<0.100	mg/L	5.0	0.100	6010	07/19/96	EM	
TCLP-Chromium	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Lead	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2
TCLP-Mercury	<2.0	µg/L	1.0	2.0	245.1	07/19/96	DE	
TCLP-Selenium	<0.100	mg/L	5.0	0.100	7740	07/19/96	EM	2
TCLP-Silver	<0.500	mg/L	5.0	0.500	6010	07/19/96	EM	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/17/96 by DJE using 1311
(2) Sample Preparation on 07/18/96 by DJE using 3010
(3) Sample Preparation on 07/18/96 by DJE using 7470

08/19/96

LJO/kdwkdw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-3
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC3	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	94.	wt %	1.0	0.10	CLP/CIP SOW	07/17/96	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/16/96 by JF

08/19/96

LJO/ejnlp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-3
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC3	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Total Petroleum Hydrocarbons (TPH)	790	mg/kgdrywt	10	25	418.1	07/20/96	NN	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/18/96 by DEW

08/19/96

LJO/ejnlp(dw)/pph

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-3
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC3	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Herbicides by USEPA 8150								1
2,4-D	<16.	µg/L	3.1	5	8150	07/27/96	SW	
2,4,5-TP (Silvex)	<16.	µg/L	3.1	5	8150	07/27/96	SW	
2,4-Dichlorophenylacetic acid	51.	%	3.1		8150	07/27/96	SW	
TCLP Pesticides by USEPA 1311/8080								2
TCLP - gamma-BHC (Lindane)	<0.3	µg/L	1	0.25	1311/8080	07/22/96	SW	
TCLP - Heptachlor	<0.3	µg/L	1	0.25	1311/8080	07/22/96	SW	
TCLP - Heptachlor Epoxide	<0.3	µg/L	1	0.25	1311/8080	07/22/96	SW	
TCLP - Endrin	<0.5	µg/L	1	0.50	1311/8080	07/22/96	SW	
TCLP - Methoxychlor	<2.5	µg/L	1	2.5	1311/8080	07/22/96	SW	
TCLP - Chlordane	<2.5	µg/L	1	2.5	1311/8080	07/22/96	SW	
TCLP - Toxaphene	<5.	µg/L	1	5.0	1311/8080	07/22/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	71.	%	1		1311/8080	07/22/96	SW	
Decachlorobiphenyl (% Recovery)	79.	%	1		1311/8080	07/22/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/25/96 by NEN using EPA 1311/8150
(2) Sample Preparation on 07/19/96 by ACB using EPA 1311/3510

08/19/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-3
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC3	Solid	CLIENT	07/15/96	07/16/9(

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
TCLP Semivolatile Organics by USEPA 1311/8270								1,2
Pyridine	<250.	µg/L	5.0	50	1311/8270	07/23/96	JC	
1,4-Dichlorobenzene	J26	µg/L	5.0	10	1311/8270	07/23/96	JC	
2-Methylphenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
3-Methylphenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
4-Methylphenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Hexachloroethane	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Nitrobenzene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Hexachlorobutadiene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
2,4,6-Trichlorophenol	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
2,4,5-Trichlorophenol	<130.	µg/L	5.0	25	1311/8270	07/23/96	JC	
2,4-Dinitrotoluene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Hexachlorobenzene	<50.	µg/L	5.0	10	1311/8270	07/23/96	JC	
Pentachlorophenol	<130.	µg/L	5.0	25	1311/8270	07/23/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/18/96 by ACB using EPA 1311/8270
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

08/19/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-3
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G3-DC3	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Fluorophenol (% Recovery)	45.	%	5.0		1311/8270	07/23/96	JC	
Phenol-d5 (% Recovery)	43.	%	5.0		1311/8270	07/23/96	JC	
Nitrobenzene-d5 (% Recovery)	59.	%	5.0		1311/8270	07/23/96	JC	
2-Fluorobiphenyl (% Recovery)	62.	%	5.0		1311/8270	07/23/96	JC	
2,4,6-Tribromophenol (% Recovery)	50.	%	5.0		1311/8270	07/23/96	JC	
Terphenyl-d14 (% Recovery)	66.	%	5.0		1311/8270	07/23/96	JC	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

08/19/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1500-3
Report Date: 08/19/96
PO No. : 76877
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G3-DC3	Solid	CLIENT	07/15/96	07/16/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Volatile Organics by USEPA Method 1311/8260								1
Benzene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Carbon Tetrachloride	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Chlorobenzene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Chloroform	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
1,2-Dichloroethane	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
1,1-Dichloroethene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
2-Butanone	<15.	µg/L	1.0	15	1311/8240	07/19/96	DW	
Tetrachloroethene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Trichloroethene	<5.	µg/L	1.0	5	1311/8240	07/19/96	DW	
Vinyl chloride	<10.	µg/L	1.0	10	1311/8240	07/19/96	DW	
1,2-Dichloroethane-d4 (% Recovery)	104.	%	1.0		1311/8240	07/19/96	DW	
Toluene-d8 (% Recovery)	100.	%	1.0		1311/8240	07/19/96	DW	
p-Bromofluorobenzene (% Recovery)	102.	%	1.0		1311/8240	07/19/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 07/17/96 by DAW using EPA 1311/5030

08/19/96

LJO/jcbeaw/kwh/lp(dw)/pr

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin Analytical Services, Inc.
Elements Section

Client:	Roy F Weston
Work Order:	WM1500
Prep. Date:	07/18/96
QC Batch ID:	MG18ICW1

Aqueous Preparation Blank (P B W)

Method 3010 (HCl) Elements:	Method	Measured Conc. (mg/L)	Analysis Date	Acceptance Limit (mg/L)	Notes
Arsenic	200.7/6010	<0.008	19-Jul-96	0.008	
Barium	200.7/6010	<0.005	19-Jul-96	0.005	
Cadmium	200.7/6010	<0.010	19-Jul-96	0.010	
Chromium	200.7/6010	<0.015	19-Jul-96	0.015	
Lead	200.7/6010	<0.005	19-Jul-96	0.005	
Selenium	200.7/6010	<0.010	19-Jul-96	0.010	
Silver	200.7/6010	<0.015	19-Jul-96	0.015	

Notes:

1) Blank acceptance limits are equivalent to PQLs unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)

Aqueous Laboratory Control Sample (LCSW)

Method 3010 (HCl) Element:	Measured Conc. (mg/L)	Analysis Date	True Value (mg/L)	Calculated Rec (%)	Control Limits (%)	Notes
Arsenic	2.02	19-Jul-96	2.00	101%	80.0-120	
Barium	1.92	19-Jul-96	2.00	96%	80.0-120	
Cadmium	0.054	19-Jul-96	0.050	108%	80.0-120	
Chromium	0.199	19-Jul-96	0.200	100%	80.0-120	
Lead	0.530	19-Jul-96	0.500	106%	80.0-120	
Selenium	1.99	19-Jul-96	2.00	100%	80.0-120	
Silver	0.046	19-Jul-96	0.050	92%	80.0-120	

Notes:

1) LCS control limits are nominal values, effective 9/15/93
2) See cover letter for additional information. (if notated)
3) Analysis methods are the same as the analysis methods for the prep blank.

Katahdin Analytical Services, Inc.
Quality Control Report

Method Blank and Laboratory Control Sample Results

Client: Roy. F. Weston
Work Order: WM1500

			METHOD BLANK RESULTS						*LABORATORY CONTROL SAMPLE RESULTS*					
Parameter	Date of Prep	Date of Analysis	Units	Concentration Measured in Blank		Acceptance Range	Practical Quantitation Level**		Units	True Value	Measured Value	Percent Recovered	Acceptance Range (%)	Acceptance Range (mg/kg)
TS -Total Residue	16-Jul-96	17-Jul-96	wt %	< 0.10	<	0.10	0.10							
Total Petroleum Hydrocarbons	18-Jul-96	20-Jul-96	mg/kg	< 25	<	25	25		mg	2.51	2.68	107	57-137	@

** Practical quantitation level is the lowest concentration measurable for samples with normal chemical and physical composition during routine laboratory operations.

DATA QUALITY COMMENTS:
Results of all quality control measurements are within the laboratory and method specified acceptance range except as noted.

@ The laboratory uses the internally established statistical 99% confidence range as the acceptance range for this LCS.

Client:
Work Order:

7/23/96

Katahdin Analytical Services
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

Pesticides by GC Method:	8081
Sample Preparation Technique:	1311/3510

TCLP Water Matrix

CHRONOLOGY

PACE-ME Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~	PACE-ME Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~
WM1500-1	7/19/96	7/22/96	8JL1138	1.0					
WM1500-2	7/19/96	7/22/96	8JL1138	1.0					
WM1500-3	7/19/96	7/22/96	8JL1138	1.0					

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

00000025

Katahdin Analytical Services, Inc.
Quality Control Report

Laboratory Control Spike/Laboratory Control Spike Duplicate Results

Water Matrix

Client:	
Work Order:	

Pesticides/PCBs by GC Method:	8081
Sample Preparation Technique:	1311/3510

Date of Extraction:	7/19/96	Sample Name:	LCP0082
Date of Analysis:	7/22/96	Files:	8JL1138.rst

Compound	Spike Added (ug/L)	LCS Concentration (ug/L)	LCSD Concentration (ug/L)	LCS % Recovery	LCSD % Recovery	Acceptance Range (%)	RPD (%)	QC Limits RPD*
4,4'-DDD	0.40	0.357	N/A	89	N/A	52-147	N/A	0-30
4,4'-DDE	0.40	0.362	N/A	91	N/A	50-144	N/A	0-30
4,4'-DDT	0.40	0.380	N/A	95	N/A	42-167	N/A	0-30
Aldrin	0.40	0.353	N/A	88	N/A	39-130	N/A	0-30
alpha-BHC	0.40	0.337	N/A	84	N/A	50-130	N/A	0-30
beta-BHC	0.40	0.357	N/A	89	N/A	52-142	N/A	0-30
delta-BHC	0.40	0.343	N/A	86	N/A	50-143	N/A	0-30
Dieldrin	0.40	0.381	N/A	95	N/A	50-152	N/A	0-30
Endosulfan I	0.40	0.387	N/A	97	N/A	48-147	N/A	0-30
Endosulfan II	0.40	0.391	N/A	98	N/A	53-145	N/A	0-30
Endosulfan Sulfate	0.40	0.398	N/A	100	N/A	49-148	N/A	0-30
Endrin	0.40	0.378	N/A	95	N/A	52-153	N/A	0-30
Endrin Aldehyde	0.40	0.368	N/A	92	N/A	37-150	N/A	0-30
Endrin Ketone	0.40	0.406	N/A	102	N/A	48-158	N/A	0-30
gamma-BHC (Lindane)	0.40	0.358	N/A	90	N/A	49-140	N/A	0-30
Heptachlor	0.40	0.373	N/A	93	N/A	41-138	N/A	0-30
Heptachlor Epoxide	0.40	0.392	N/A	98	N/A	51-147	N/A	0-30
Methoxychlor	0.40	0.417	N/A	104	N/A	41-167	N/A	0-30

Surrogate Recovery:	TCMX:	71%
	DCB:	75%

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sets employed for organic analyses. All spike recoveries must be equal to or greater than ten percent, and a minimum of ninety percent of the total number of calculated recoveries plus relative percent differences (RPDs) must be within the specified acceptance ranges.

Katahdin Analytical Services, Inc.
Quality Control Report

TCLP Matrix Spike Results

Water Matrix

Client:	
Work Order:	

Pesticides by GC Method: 8081

Sample Preparation Technique: 1311/3510

Date of Extraction: 7/19/96

Date of Analysis: 7/22/96

Sample Name: WM1500-3MS

Files: 8JL1143.rst

Compound	Spike Added (ug/L)	LCS Concentration (ug/L)	LCSD Concentration (ug/L)	LCS % Recovery	LCSD % Recovery	Acceptance Range (%)	RPD (%)	QC Limit RPD*
4,4'-DDD	2.00	1.920	N/A	96	N/A	31-141	N/A	0-30
4,4'-DDE	2.00	1.910	N/A	96	N/A	30-145	N/A	0-30
4,4'-DDT	2.00	2.030	N/A	102	N/A	25-160 ^	N/A	0-36 ^
Aldrin	2.00	1.870	N/A	94	N/A	47-104 ^	N/A	0-29 ^
alpha-BHC	2.00	1.750	N/A	88	N/A	37-134	N/A	0-30
beta-BHC	2.00	1.830	N/A	92	N/A	17-147	N/A	0-30
delta-BHC	2.00	1.810	N/A	91	N/A	19-140	N/A	0-30
Dieldrin	2.00	1.995	N/A	100	N/A	68-127 ^	N/A	0-24 ^
Endosulfan I	2.00	2.005	N/A	100	N/A	45-153	N/A	0-30
Endosulfan II	2.00	2.035	N/A	102	N/A	D-202	N/A	0-30
Endosulfan Sulfate	2.00	2.130	N/A	107	N/A	26-144	N/A	0-30
Endrin	2.00	1.995	N/A	100	N/A	66-135 ^	N/A	0-21 ^
Endrin Aldehyde	2.00	1.865	N/A	93	N/A	**	N/A	0-30
Endrin Ketone	2.00	2.115	N/A	106	N/A	**	N/A	0-30
gamma-BHC (Lindane)	2.00	1.855	N/A	93	N/A	58-131 ^	N/A	0-24 ^
Heptachlor	2.00	1.935	N/A	97	N/A	49-121 ^	N/A	0-19 ^
Heptachlor Epoxide	2.00	2.040	N/A	102	N/A	37-142	N/A	0-30
Methoxychlor	2.00	2.290	N/A	115	N/A	**	N/A	0-30

Surrogate Recovery: TCMX: 74%

DCB: 77%

* Acceptance range as specified in EPA Method 8081; insufficient laboratory data are available to generate statistically based limits.

^ The laboratory uses the internally established 99% confidence ranges and relative percent difference (RPD) as the acceptance criteris for this LCS/LCSD.

** EPA method 8081 does not specify acceptance criteria for this compound; insufficient laboratory data are available to generate statistically based limits.

Client:
Work Order:

7/29/96

Katahdin Analytical Services
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

Herbicides by GC Method:	8150
Sample Preparation Technique:	1311/8150

TCLP Water Matrix

CHRONOLOGY

KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~	KATAHDIN Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor~
WM1500-1	7/25/96	7/27/96	3jl1078	1.0					
WM1500-2	7/25/96	7/27/96	3jl1078	1.0					
WM1500-3	7/25/96	7/27/96	3jl1078	1.0					

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

0000028

Katahdin Analytical Services, Inc.
Quality Control Report

Client:	
Work Order:	

Laboratory Control Sample Results

TCLP Herbicides by GC Method 1311/8150

Water Matrix

Date of Extraction: 7/25/96 Sample Name: LCE0016

Date of Analysis: 7/27/96 File #: 3JL1078.rst

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS Dup. Measured Conc.	LCS % Recovery	LCS Dup. % Recovery	Recovery Acceptance Range (%)*	RPD (%)	RPD Acceptance Range (%)*
2,4-D	ug/L	25.0	17.7	N/A	71	N/A	30-120	N/A	0-30
2,4,5-TP (Silvex)	ug/L	25.0	11.5	N/A	46	N/A	30-100	N/A	0-30

Surrogate Recovery: DCAA: 62%

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample dupli sets employed for organic analyses. All spike recoveries must be equal to or greater than ten percent, and a minimum of ninety perc total number of calculated recoveries plus relative percent differences (RPDs) must be within the specified acceptance ranges.

Katahdin Analytical Services, Inc.
Quality Control Report

Client:
Work Order:

TCLP Matrix Spike Results

Herbicides by GC Method: 1311/8150

Water Matrix

Date Extracted: 7/25/96
Date Analyzed: 7/27/96

Sample Spiked: WM1500-2
File #: 3JL1079.rst

Compound	Units	Spike Conc.	Sample Conc.	MS Measured Conc.	MSD Measured Conc.	MS % Recovery	MSD % Recovery	Recovery Acceptance Range (%)*	RPD (%)	RPD Acceptance Range (%)*
2,4-D	ug/L	25.0	<5.0	17.9	N/A	71	N/A	30-120	N/A	0-30
Silvex	ug/L	25.0	<5.0	11.6	N/A	47	N/A	30-100	N/A	0-30

Surrogate Recovery: DCAA: MS: 71%
MSD: N/A

* Acceptance ranges are obtained when available from the applicable US EPA analytical method. These ranges are based upon method performance data generated from the analysis of quality control check samples and not actual environmental samples. The laboratory does not use the MS/MSD acceptance ranges as quality control acceptance criteria; the MS/MSD data are used to evaluate method performance for the environmental sample matrix. Please refer to LCS/LCSD data for assessment of quality control for this method.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1500

Methods, Chronology of Analysis and Method Blank Results

Volatile Analysis by GC/MS Method: 8240

Soil/Solid Matrix

CHRONOLOGY

Sample Nos.	Date Analyzed	LCS File	Dilution Factor ~	Sample Nos.	Date Analyzed	LCS File	Dilution Factor
WM1500-1	19-Jul-96	F7788	1.0				
WM1500-2	19-Jul-96	F7788	1.0				
WM1500-3	19-Jul-96	F7788	1.0				

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, w diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1500

Laboratory Control Sample Results

Volatile Organics by GC/MS Method: 8240

Water Matrix

Date of Analysis: 19-Jul-96 Files: F7788.D

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS % Recovery	Recovery Acceptance Range (%)*
1,1-Dichloroethene	ug/l	50	50.7	101	53-136
Trichloroethene	ug/l	50	49.6	99.2	76-119
Benzene	ug/l	50	51.3	103	78-128
Toluene	ug/l	50	51.0	102	75-121
Chlorobenzene	ug/l	50	50.6	101	74-125

* The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1500

TCLP Matrix Spike Results

Volatile Organics by GC/MS Method: 1311/8240

Water Matrix

Sample No. Spiked: WM1500-1

Compound	Units	Spike Conc.	Sample Conc.	MS Measured Conc.	Theoretical Sample Spike Conc.	MS % Recovery*
Vinyl Chloride	ug/l	50	<10	43.4	50	86.8
1,1-Dichloroethene	ug/l	50	<5	51.8	50	104
Chloroform	ug/l	50	<5	53.3	50	107
1,2-Dichloroethane	ug/l	50	<5	53.6	50	107
2-Butanone	ug/l	100	<15	68.5	100	68.5
Carbon Tetrachloride	ug/l	50	<5	50.9	50	102
Trichloroethene	ug/l	50	<5	53.8	50	108
Benzene	ug/l	50	<5	51.0	50	102
Tetrachloroethene	ug/l	50	<5	50.2	50	100
Chlorobenzene	ug/l	50	<5	50.8	50	102

* No acceptance criteria for the TCLP matrix spike recovery have been established by the US EPA. As noted in the method (EPA Method 1311 Toxicity Characteristic Leaching Procedure) the purpose of the matrix spike is to monitor the performance of the analytical methods used and to determine whether matrix interferences exist.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1500

Methods, Chronology of Analysis and Method Blank Results

Semivolatile Organics by GC/MS Method: 8270
Sample Preparation Technique: 1311/3510

Water Matrix

CHRONOLOGY

Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor ~	Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor ~
WM1500-1	18-Jul-96	23-Jul-96	Z1413	5.0					
WM1500-2	18-Jul-96	23-Jul-96	Z1413	5.0					
WM1500-3	18-Jul-96	23-Jul-96	Z1413	5.0					
WM1500-3MS	18-Jul-96	23-Jul-96	Z1413	1.0					
TCLP BLANK	18-Jul-96	23-Jul-96	Z1413	5.0					

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to a The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and anal For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1500

TCLP LCS Results

Semivolatile Organics by GC/MS Method: 8270
Sample Preparation Technique: 1311/3510

Water Matrix

File No. Z1413

Compound	Units	Spike Conc.	LCS Measured Conc.	Theoretical Sample Spike Conc.	LCS % Recovery*
Pyridine	ug/L	50	17.7	50	35.4
1,4-Dichlorobenzene	ug/L	50	33.6	50	67.2
2-Methylphenol	ug/L	100	62.7	100	62.7
3,4-Methylphenol	ug/L	100	58.1	100	58.1
Hexachloroethane	ug/L	50	34.2	50	68.4
Nitrobenzene	ug/L	50	35.7	50	71.4
Hexachlorobutadiene	ug/L	50	36.5	50	73.0
2,4,6-Trichlorophenol	ug/L	100	70.6	100	70.6
2,4,5-Trichlorophenol	ug/L	100	68.3	100	68.3
2,4-Dinitrotoluene	ug/L	50	39.3	50	78.6
Hexachlorobenzene	ug/L	50	42.3	50	84.6
Pentachlorophenol	ug/L	100	88.9	100	88.9

* No acceptance criteria for the TCLP matrix spike recovery have been established by the US EPA. As noted in the method (EPA Method 1311 Toxicity Characteristic Leaching Procedure) the purpose of the matrix spike is to monitor the performance of the analytical methods used and to determine whether matrix interferences exist.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1500

TCLP Matrix Spike Results

Semivolatile Organics by GC/MS Method: 8270
Sample Preparation Technique: 1311/3510

Water Matrix

Sample No. Spiked: WM1500-3

Compound	Units	Spike Conc.	Sample Conc.	MS Measured Conc.	Theoretical Sample Spike Conc.	MS % Recovery*
Pyridine	ug/L	50	<50	26.7	50	53.4
1,4-Dichlorobenzene	ug/L	50	26.1	33.7	76.1	15.2
2-Methylphenol	ug/L	100	<50	57.2	100	57.2
3,4-Methylphenol	ug/L	100	<50	49.5	100	49.5
Hexachloroethane	ug/L	50	<50	31.8	50	63.6
Nitrobenzene	ug/L	50	<50	35.9	50	71.8
Hexachlorobutadiene	ug/L	50	<50	33.2	50	66.4
2,4,6-Trichlorophenol	ug/L	100	<50	62.9	100	62.9
2,4,5-Trichlorophenol	ug/L	100	<130	64.5	100	64.5
2,4-Dinitrotoluene	ug/L	50	<50	35.1	50	70.2
Hexachlorobenzene	ug/L	50	<50	42.8	50	85.6
Pentachlorophenol	ug/L	100	<130	87.8	100	87.8

* No acceptance criteria for the TCLP matrix spike recovery have been established by the US EPA. As noted in the method (EPA Method 1311 Toxicity Characteristic Leaching Procedure) the purpose of the matrix spike is to monitor the performance of the analytical methods used and to determine whether matrix interferences exist.

[redacted]

CHAIN OF CUSTODY

WM1500

Page 1 of 1

TURN TIME ☐ Standard (2 wks.) ☒ Other 7 day

[redacted] LAB PROJECT ID

Company Name	Project No.	Project Name
Roy F. Weston, Inc.	03886-118-004-0204-00	AOC 436 AREA 3

Contact Person	Address
Bill Dale	88 Pine Street, Building 002

City	State	Zip	Telephone
Devens	MA	01433	508-772-7190

Purchase Order Number	FAX Number
76877	508-772-7251

[redacted] LAB Sample No.	Date	Collection Time	COMP.	GRAB	MATRIX	Sample Identification	# of Cont	Analysis Request: 4/8.1	Analysis Request: TCLP → 8/16 VOA, SVOA, Herbs, Pest, metals } Full per Bill Dale w/Appdix
							3	3	
							G	G	
							4c	4c	
363-DC1	7/15/96	955	X		S	Brown Sandy Soil w/strong TPH ODOR	X	X	
363-DC2	7/15/96	1014	X		S	Brown Sandy Soil w/strong TPH ODOR	X	X	
363-DC3	7/15/96	1030	X		S	Brown Sandy Soil w/mild TPH ODOR	X	X	

FINAL PAGE

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: DW-Drinking Water S-Solid GW-Ground Water WW-Wastewater

Seals Intact: ☒ YES ☐ NO

Cooler Temp: 1.3°C 07/16/96

Comments: Temperature Blank included

07/16/96

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
William D. Dale	7/15/96 1530	Federal Express	7/15/96 1530	FED EX	7/16/96 1019	[signature]	7/16/96 1019
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

0000038

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1905-1
Report Date: 09/12/96
PO No. : 61547
Project : 03886-118-004-0209-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-DC4	Solid	CLIENT	09/03/96	09/04/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Corrosivity as pH	7.0	pH units	1.0	0.10	SW9045	09/05/96	JF	1
Cyanide, Reactive	<2.0	mg/kg	1.0	2.0	SW7.3	09/09/96	WL	2
Ignitability-Flash Point	>65	degrees C	1.0	25	1010	09/11/96	WL	
Solids-Total Residue (TS)	96.	wt %	1.0	0.10	CLP/CIP SOW	09/06/96	JF	1
Sulfide, Reactive	88	mg/kg	1.0	27	SW7.3	09/06/96	WL	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 09/05/96 by JF
(2) Sample Preparation on 09/06/96 by WHL

09/12/96

LJO/ejnajc(dw)/whl

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

000002

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1905-2
Report Date: 09/12/96
PO No. : 61547
Project : 03886-118-004-0209-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-DC5	Solid	CLIENT	09/03/96	09/04/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTE
Corrosivity as pH	6.7	pH units	1.0	0.10	SW9045	09/05/96	JF	1
Cyanide, Reactive	<2.0	mg/kg	1.0	2.0	SW7.3	09/09/96	WL	2
Ignitability-Flash Point	>65	degrees C	1.0	25	1010	09/11/96	WL	
Solids-Total Residue (TS)	91.	wt %	1.0	0.10	CLP/CIP SOW	09/06/96	JF	
Sulfide, Reactive	91	mg/kg	1.0	27	SW7.3	09/06/96	WL	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 09/05/96 by JF
(2) Sample Preparation on 09/06/96 by WHL

09/12/96

LJO/ejnajc(dw)/whl

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

000003

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: BILL DALE
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1905-3
Report Date: 09/12/96
PO No. : 61547
Project : 03886-118-004-0209-00

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-DC6	Solid	CLIENT	09/03/96	09/04/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Corrosivity as pH	6.6	pH units	1.0	0.10	SW9045	09/05/96	JF	1
Cyanide, Reactive	<2.0	mg/kg	1.0	2.0	SW7.3	09/09/96	WL	2
Ignitability-Flash Point	>65	degrees C	1.0	25	1010	09/11/96	WL	
Solids-Total Residue (TS)	95.	wt %	1.0	0.10	CLP/CIP SOW	09/06/96	JF	1
Sulfide, Reactive	85	mg/kg	1.0	27	SW7.3	09/06/96	WL	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 09/05/96 by JF
(2) Sample Preparation on 09/06/96 by WHL

09/12/96

LJO/ejnajc(dw)/whl

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

CCCCCC4

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin Analytical Services, Inc.
Quality Control Report

Method Blank and Laboratory Control Sample Results

Client: Roy F. Weston
Work Order: WM1905

			METHOD BLANK RESULTS					*LABORATORY CONTROL SAMPLE RESULTS*					
Parameter	Date of Prep	Date of Analysis	Units	Concentration Measured in Blank		Acceptance Range	Practical Quantitation Level**	Units	True Value	Measured Value	Percent Recovered	Acceptance Range (%)	Acceptance Range (mg/kg)
Corrosivity - pH	05-Sep-96	05-Sep-96	pH units	NA		NA		pH units	7.00	6.95	99.3	80-120	
Ignitability (Flash Point)	11-Sep-96	11-Sep-96	C	NA		NA	25	C	27.0	27.0	100	80-120	
Reactivity - Cyanide	06-Sep-96	09-Sep-96	mg/kg	< 2.0	<	2.0	2.0	mg/kg	400	66.5	16.6	10-110	
Reactivity - Sulfide	06-Sep-96	06-Sep-96	mg/kg	< 27	<	27	27	mg	2.26	2.48	110	50-150	
TS -Total Residue	05-Sep-96	06-Sep-96	wt %	< 0.10	<	0.10	0.10						

** Practical quantitation level is the lowest concentration measurable for samples with normal chemical and physical composition during routine laboratory operations.

NA = Not applicable.

DATA QUALITY COMMENTS:
Results of all quality control measurements are within the laboratory and method specified acceptance range except as noted.

Katahdin Analytical Services, Inc.

Elements Section

Client:	Roy F Weston
Work Order:	WM1493
Prep. Date:	16-Jul-96
QC Batch ID:	MG16GFW1

Aqueous Preparation Blank (P B W)

Method 3020 (HNO3) Element:	Method	Measured Conc. (mg/L)	Analysis Date	Acceptance Limit (mg/L)	Notes
Lead	239.2/7421	<0.005	19-Jul-96	0.005	

Notes:

1) Blank acceptance limits are equivalent to PQLs unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)

Aqueous Laboratory Control Sample (LCSW)

Method 3020 (HNO3) Element:	Measured Conc. (mg/L)	Analysis Date	True Value (mg/L)	Calculated Recovery (%)	Control Limits (%)
Lead	0.0239	19-Jul-96	0.020	120%	80.0-120

Notes:

1) LCS control limits are nominal values, effective 9/15/93
2) See cover letter for additional information. (if notated)
3) Analysis methods are the same as the analysis methods for the prep blank.

Katahdin Analytical Services, Inc.
Elements Section
Concentrations in Liquids (Duplicate & Spike)

Client:	Roy F Weston
Work Order:	WM1493
Prep. Date:	16-Jul-96
Sample Number	WM1493-1

Method 3020 (HNO3)								
Element:	**Analysis Method**	**Conc. (mg/L)**	**Conc. (mg/L)**	**RPD (%)**	**Conc. (mg/L)**	**Added (mg/L)**	**% Rec**	**Notes**
Lead	239.2/7421	<0.005	<0.005	NC	0.019	0.020	95%	

Notes: Please see duplicate and matrix spike footnote page for explanation of notations.

00000058

Katahdin Analytical Services, Inc.
Quality Control Report

Method Blank and Laboratory Control Sample Results

Client: Roy F. Weston
Work Order: WM1493

			METHOD BLANK RESULTS					*LABORATORY CONTROL SAMPLE RESULTS*					
Parameter	Date of Prep	Date of Analysis	Units	Concentration Measured in Blank		Acceptance Range	Practical Quantitation Level**	Units	True Value	Measured Value	Percent Recovered	Acceptance Range (%)	Acceptance Range (mg/kg)
Total Petroleum Hydrocarbons	19-Jul-96	20-Jul-96	mg/L	< 1.0	<	1.0	1.0	mg	25.1	18.4	73.3	57-137	@

** Practical quantitation level is the lowest concentration measurable for samples with normal chemical and physical composition during routine laboratory operations.

DATA QUALITY COMMENTS:
Results of all quality control measurements are within the laboratory and method specified acceptance range except as noted.

@ The laboratory uses the internally established statistical 99% confidence range as the acceptance range for this LCS.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1493

Methods, Chronology of Analysis and Method Blank Results

Volatile Organics by GC Method: 601/602

Method Blank
Result File:

Water Matrix

CHRONOLOGY

Sample Nos.	Date Analyzed	Dilution Factor~	Sample Nos.	Date Analyzed	Dilution Factor~
WM1493-1	7/18/96	1.0			
WM1493-2	7/18/96	1.0			

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectivel diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

Katahdin Analytical Sevices, Inc.

QUALITY CONTROL REPORT

Laboratory Control Sample Results

Volatile Organics by GC Method: 601-602

Instrument ID: GC01

Matrix: Water

Date of Analysis: 7/18/96

Standard Amount: 10.0 ppb

File Name: 1JL3043.rst

1JL4043.rst

Compound	Retention Time	Retention Time Window		Recovery Amount (ppb)	% Recovery	% Recovery Window	
		FROM	TO			FROM	TO
Benzene	18.95	18.88	19.02	10.82	108	39	150
Toluene	26.76	26.59	26.93	10.95	110	46	148
Chlorobenzene	31.68	31.53	31.83	9.58	96	55	135
Ethylbenzene	32.56	32.43	32.69	10.72	107	32	160
m,p-Xylenes	32.97	32.84	33.10	20.42	102	NA	NA
o-Xylene	34.01	33.91	34.11	10.2	102	NA	NA
1,3-Dichlorobenzene	38.05	38.03	38.07	10.12	101	50	141
1,4-Dichlorobenzene	38.19	38.17	38.21	10.42	104	42	143
1,2-Dichlorobenzene	38.93	38.91	38.95	10	100	37	154
SURROGATES							
a,a,a-Trifluorotoluene	21.74	21.72	21.76	9.85	99	93	115

Katahdin Analytical Services, Inc.
Quality Control Report

Client:
Work Order

Methods, Chronology of Analysis and Method Blank Results

PCBs by GC Method:	8080
Sample Preparation Technique:	3510

Water Matrix

METHOD BLANK :BP0080

CHRONOLOGY

Sample Nos	Date Extracted	Date Analyzed	Dilution Factor~	Sample Nos	Date Extracted	Date Analyzed	Dilution Factor~
WM1493-1	7/17/96	7/18/96	1				

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysi The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyz at 20% its reported concentration.

Katahdin Analytical Services, Inc.
Quality Control Report

Laboratory Control Spike/Laboratory Control Spike Duplicate Results
Water Matrix

Client:	
Work Order:	

PCBs by GC Method: 8081
Sample Preparation Technique: 3510

Date of Extraction: 7/17/96
Date of Analysis: 7/18/96

Sample Name: LCP0080
File #: 8JL1126.rst

Compound	Units	Spike Conc.	LCS Measured Conc.	LSC Dup. Measured Conc.	LCS % Recovery	LSC Dup. % Recovery	Recovery Acceptance Range (%)*	RPD (%)	RPD Acceptance Range (%)*
Arochlor 1016	ug/L	5.00	4.04	N/A	81	N/A	29-131	N/A	0-28
Arochlor 1260	ug/L	5.00	5.12	N/A	102	N/A	29-131	N/A	0-28

Surrogate Recoveries: TCMX: 66%
DCB: 89%

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sets employed for organic analyses. All spike recoveries must be equal to or greater than ten percent, and a minimum of ninety percent of the total number of calculated recoveries plus relative percent differences (RPDs) must be within the specified acceptance ranges.

0000052

Katahdin Analytical Services, Inc.
Quality Control Report

Duplicate and Matrix Spike/Matrix Spike Duplicate Results

Client:	Roy F. Weston
Work Order:	WM1905

DUPLICATE RESULTS — *MATRIX SPIKE/MATRIX SPIKE DUPLICATE RESULTS*

Parameter	Katahdin Sample No	Units	Sample Measurements Rep 1	Rep 2	Mean Conc	RPD (%)	Acceptance Range for RPD (%)	Concentration or Quantity Units	Sampl Only	Spike Added	Sample +Spike Dup 1	Sample +Spike Dup 2	Matrix Spike Recovery (%) Sample +Spike Dup 1	Sample +Spike Dup 2	Acceptance Range (%)	RPD (%)	Acceptance Range (%)
TS	WM1905-3	wt%	95.4	95.2	95.3	0.2	0-20	MS/MSD Not Applicable for this Parameter									
Corrosivity -pH	WM1905-1	pH units	6.96	6.96	6.96	0.0	0-20	MS/MSD Not Applicable for this Parameter									

RPD = Relative percent difference, which is the absolute value of the difference between two replicate results divided by the mean concentration then multiplied by 100%.

DATA QUALITY COMMENTS:

Results of all quality control measurements are within the laboratory or contract specified acceptance range except as noted. The laboratory does not use the sample duplicate and matrix spike acceptance ranges as acceptance criteria for a specific analysis. Sample duplicate and matrix spike data are used to evaluate method performance in the environmental sample matrix only. Please refer to LCS data for assessment of quality control for each parameter.

ENVIRONMENTAL SCIENCE SERVICES
532 Atwells Avenue
Providence, Rhode Island 02909
(401) 421-0398 Fax (401) 421-5731

CHAIN OF CUSTODY

WM1905

Page 1 of 1

TURN TIME: ☐ Standard (2 wks.) ☒ Other 7 Day

ESS-LAB PROJECT ID:

Company Name	Project No.	Project Name
Roy F. WESTON, Inc.	03680-118-004 0209-00	Various Removal Actions, Ft Devens

Contact Person	Address
Bill Dale	Bldg 3701, Barnum Road, Ft. Devens MA 01433

City	State	Zip	Telephone
Devens	MA	01433	(508)-772-7190

Purchase Order Number	FAX Number
61547	(508)-772-7251

ESS-LAB Sample No.	Date	Collection Time	COMP.	GRAB	MATRIX	Sample Identification	# of Cont	Type	Preserv.	Analysis Request: RCRA Char	Corrosivity	Ignit	Flashpoint	Rel Cyanide	Sulfide
436-DC4	9-3-96	1030	X		S	Dirty Pile Sand & Gas trap	1	G	4°	X				X	
436-DC5	9-3-96	1045	X		S	Dirty Pile Sand & Gas trap				X					
436-DC6	9-3-96	1100	X		S	Dirty Pile Sand & Gas trap				X					

FINAL PAGE

Container Type: P-Poly G-Glass S-Sterile V-VOA

Matrix: DW-Drinking Water S-Solid GW-Ground Water WW-Wastewater

Seals Intact: ☐ YES ☐ NO

Cooler Temp: 4°

Comments: Temperature Blank included

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
William Dale	9/3/96 1530	Federal Express					
Fed Ex	9/4/96 1036	[signature]	9/4/96 1036				

ATTACHMENT J

AOC 43G

FUEL OIL UST - AREA 3
CONFIRMATORY LABORATORY ANALYTICAL
ROY F. WESTON, INC.

Samples collected August 21, 1996

Katahdin
ANALYTICAL SERVICES

September 6, 1996

Mr. David Crispo
Roy F. Weston
P.O. Box 425
Ayer, MA 01432

RE: Katahdin Lab Number: WM1801
Project ID: Fort Devens
Project Manager: Ms. Lil Pepin
Sample Receipt Date: August 22, 1996

Dear Mr. Crispo:

Please find enclosed the following information:

* Report of Analysis
* Quality Control Data Summary
* Confirmation
* Chain of Custody

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Deborah J. Mideau
Authorized Signature

9.6.96
Date

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

TECHNICAL NARRATIVE

Volatile analyses for work order WM1801 were performed by a subcontracted laboratory. Several compounds were out of this laboratory's acceptance ranges for the LCS associated with these samples. There were no hits for these compounds in the associated samples so the validity of the data is unaffected.

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	98.	wt %	1.0	0.10	CLP/CIP SOW	08/26/96	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/23/96 by JF

09/06/96

LJO/ejnkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diesel Range Organics								1
Diesel Range Organics	9.8	mg/kgdrywt	1	5.0	8015M-DRO	09/03/94	RH	
o-Terphenyl	74.	%	1		8015M-DRO	09/03/94	RH	
Gasoline Range Organics								2
Gasoline Range Organics	<2.5	mg/kgdrywt	1	2.5	8015M-GRO	09/02/93	RH	
4-Bromofluorobenzene	102.	%	1		8015M-GRO	09/02/93	RH	
					8015M-GRO	09/02/93	RH	
A,A,A-Trifluorotoluene	103.	%	1		8015M-GRO	09/02/93	RH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using METHOD
(2) Sample Preparation on 09/02/96 by RH using 8015M-GRO

09/06/96

LJO/jcblp(dw)/rh

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1,2
Phenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethyl)ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Chlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,3-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,4-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,2-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroisopropyl) ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
n-Nitroso-dipropylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachloroethane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Nitrobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Isophorone	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using EPA 3550A
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-^?

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Nitrophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dimethylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethoxy)methane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,2,4-Trichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Naphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chloroaniline	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorobutadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chloro-3-methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Methylnaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorocyclopentadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4,6-Trichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4,5-Trichlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
2-Chloronaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dimethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Acenaphthylene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,6-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
3-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Acenaphthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
4-Nitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Dibenzofuran	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Diethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chlorophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Fluorene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
4,6-Dinitro-2-methylphenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
n-Nitrosodiphenylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Bromophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Pentachlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Phenanthrene	J42	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Carbazole	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Di-n-butylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Fluoranthene	J92	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Pyrene	J90	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Butyl benzylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
3,3'-Dichlorobenzidine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(a)anthracene	J74.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Chrysene	J86	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Ethylhexyl)phthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Di-n-octylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(b)fluoranthene	J76	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(k)fluoranthene	J44	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(a)pyrene	J58	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Indeno(1,2,3-cd)pyrene	J54	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Dibenzo(a,h)anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(g,h,i)perylene	J48	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Fluorophenol (% Recovery)	74.	%	1.0		EPA 8270B	08/31/96	LM	
Phenol-d5 (% Recovery)	79.	%	1.0		EPA 8270B	08/31/96	LM	
Nitrobenzene-d5 (% Recovery)	74.	%	1.0		EPA 8270B	08/31/96	LM	
2-Fluorobiphenyl (% Recovery)	94.	%	1.0		EPA 8270B	08/31/96	LM	
2,4,6-Tribromophenol (% Recovery)	81.	%	1.0		EPA 8270B	08/31/96	LM	
Terphenyl-d14 (% Recovery)	92.	%	1.0		EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								
Dichlorodifluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Vinyl chloride	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Bromomethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloroethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Trichlorofluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Methylene chloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Chloroform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Analysis was performed by subcontracted laboratory.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Carbon tetrachloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Benzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Trichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromomethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromodichloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Toluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Tetrachloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromoethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-??

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1,2-tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Ethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
m-Xylene/p-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromoform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
o-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Styrene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2,2-Tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Isopropylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Propylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3,5-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
tert-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2,4-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
sec-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Isopropyltoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,4-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromo-3-chloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,4-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Naphthalene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Hexachlorobutadiene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
p-Bromofluorobenzene (%)	116.	%	1.0		EPA 8260	08/30/96	IS	
Acetone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
2-Butanone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
4-Methyl-2-pentanone	<3.	µg/kgdrywt	1.0	3.0	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-1
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-01	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<4.	µg/kgdrywt	1.0	4.0	EPA 8260	08/30/96	IS	
Tetrahydrofuran	<51.	µg/kgdrywt	1.0	50	EPA 8260	08/30/96	IS	
1,2-Dichloroethane-d4 (Surr.)	98.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene-d4	98.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	99.	wt %	1.0	0.10	CLP/CIP SOW	08/26/96	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/23/96 by JF

09/06/96

LJO/ejnkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-^2

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diesel Range Organics								
Diesel Range Organics	25.	mg/kgdrywt	1	5.0	8015M-DRO	09/04/96	RH	
o-Terphenyl	75.	%	1		8015M-DRO	09/04/96	RH	
Gasoline Range Organics								
Gasoline Range Organics	<2.5	mg/kgdrywt	1	2.5	8015M-GRO	09/03/96	RH	
4-Bromofluorobenzene	105.	%	1		8015M-GRO	09/03/96	RH	
					8015M-GRO	09/03/96	RH	
A,A,A-Trifluorotoluene	100.	%	1		8015M-GRO	09/03/96	RH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using METHOD
(2) Sample Preparation on 09/02/96 by RH using 8015M-GRO

09/06/96

LJO/jcblp(dw)/rh

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethyl)ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Chlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,3-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,4-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,2-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroisopropyl) ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
n-Nitroso-dipropylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachloroethane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Nitrobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Isophorone	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Nitrophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using EPA 3550A

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethoxy)methane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,2,4-Trichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Naphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chloroaniline	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorobutadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chloro-3-methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Methylnaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorocyclopentadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4,6-Trichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4,5-Trichlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
2-Chloronaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Dimethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Acenaphthylene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
3-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Acenaphthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
4-Nitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Dibenzofuran	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Diethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chlorophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Fluorene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
4,6-Dinitro-2-methylphenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
n-Nitrosodiphenylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Bromophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Pentachlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Carbazole	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Di-n-butylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Butyl benzylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
3,3'-Dichlorobenzidine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(a)anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Chrysene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Ethylhexyl)phthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Di-n-octylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(b)fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(k)fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(a)pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Indeno(1,2,3-cd)pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(g,h,i)perylene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Fluorophenol (% Recovery)	66.	%	1.0		EPA 8270B	08/31/96	LM	
Phenol-d5 (% Recovery)	71.	%	1.0		EPA 8270B	08/31/96	LM	
Nitrobenzene-d5 (% Recovery)	67.	%	1.0		EPA 8270B	08/31/96	LM	
2-Fluorobiphenyl (% Recovery)	76.	%	1.0		EPA 8270B	08/31/96	LM	
2,4,6-Tribromophenol (% Recovery)	71.	%	1.0		EPA 8270B	08/31/96	LM	
Terphenyl-d14 (% Recovery)	77.	%	1.0		EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								1,2
Dichlorodifluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Vinyl chloride	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Bromomethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloroethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Trichlorofluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Methylene chloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Chloroform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.
(2) Analysis was performed by subcontracted laboratory.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Carbon tetrachloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Benzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Trichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromomethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromodichloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Toluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromoethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Chlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1,2-tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Ethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
m-Xylene/p-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromoform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
o-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Styrene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2,2-Tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Isopropylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Propylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3,5-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
tert-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,4-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
sec-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Isopropyltoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,4-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromo-3-chloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,4-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Naphthalene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Hexachlorobutadiene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-2
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G-02	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
p-Bromofluorobenzene (%)	109.	%	1.0		EPA 8260	08/30/96	IS	
Acetone	B7	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
2-Butanone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
4-Methyl-2-pentanone	<3.	µg/kgdrywt	1.0	3.0	EPA 8260	08/30/96	IS	
2-Hexanone	<4.	µg/kgdrywt	1.0	4.0	EPA 8260	08/30/96	IS	
Tetrahydrofuran	<51.	µg/kgdrywt	1.0	50	EPA 8260	08/30/96	IS	
1,2-Dichloroethane-d4 (Surr.)	99.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene-d4	97.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	98.	wt %	1.0	0.10	CLP/CIP SOW	08/26/96	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/23/96 by JF

09/06/96

LJO/ejnkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diesel Range Organics								1
Diesel Range Organics	28.	mg/kgdrywt	1	5.0	8015M-DRO	09/04/96	RH	
o-Terphenyl	84.	%	1		8015M-DRO	09/04/96	RH	
Gasoline Range Organics								2
Gasoline Range Organics	<2.5	mg/kgdrywt	1	2.5	8015M-GRO	09/03/96	RH	
4-Bromofluorobenzene	97.	%	1		8015M-GRO	09/03/96	RH	
					8015M-GRO	09/03/96	RH	
A,A,A-Trifluorotoluene	99.	%	1		8015M-GRO	09/03/96	RH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values
(1) Sample Preparation on 08/27/96 by DEW using METHOD
(2) Sample Preparation on 09/02/96 by RH using 8015M-GRO

09/06/96

LJO/jcblp(dw)/rh

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethyl)ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Chlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,3-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,4-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,2-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroisopropyl) ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
n-Nitroso-dipropylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachloroethane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Nitrobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Isophorone	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Nitrophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using EPA 3550A

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethoxy)methane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,2,4-Trichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Naphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chloroaniline	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorobutadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chloro-3-methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Methylnaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorocyclopentadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4,6-Trichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4,5-Trichlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
2-Chloronaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Dimethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Acenaphthylene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
3-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Acenaphthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
4-Nitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Dibenzofuran	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Diethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chlorophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Fluorene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
4,6-Dinitro-2-methylphenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
n-Nitrosodiphenylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Bromophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Pentachlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Carbazole	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Di-n-butylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Butyl benzylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
3,3'-Dichlorobenzidine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(a)anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Chrysene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Ethylhexyl)phthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Di-n-octylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(b)fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(k)fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(a)pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Indeno(1,2,3-cd)pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(g,h,i)perylene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Fluorophenol (% Recovery)	82.	%	1.0		EPA 8270B	08/31/96	LM	
Phenol-d5 (% Recovery)	85.	%	1.0		EPA 8270B	08/31/96	LM	
Nitrobenzene-d5 (% Recovery)	81.	%	1.0		EPA 8270B	08/31/96	LM	
2-Fluorobiphenyl (% Recovery)	99.	%	1.0		EPA 8270B	08/31/96	LM	
2,4,6-Tribromophenol (% Recovery)	95.	%	1.0		EPA 8270B	08/31/96	LM	
Terphenyl-d14 (% Recovery)	99.	%	1.0		EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								1
Dichlorodifluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Vinyl chloride	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Bromomethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloroethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Trichlorofluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Methylene chloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Chloroform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Analysis was performed by subcontracted laboratory.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Carbon tetrachloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Benzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Trichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromomethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromodichloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Toluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Tetrachloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromoethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1,2-tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Ethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
m-Xylene/p-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromoform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
o-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Styrene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2,2-Tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Isopropylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Propylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3,5-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
tert-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2,4-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
sec-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Isopropyltoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,4-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromo-3-chloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,4-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Naphthalene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Hexachlorobutadiene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
p-Bromofluorobenzene (%)	109.	%	1.0		EPA 8260	08/30/96	IS	
Acetone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
2-Butanone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
4-Methyl-2-pentanone	<3.	µg/kgdrywt	1.0	3.0	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-3
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-03	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<4.	µg/kgdrywt	1.0	4.0	EPA 8260	08/30/96	IS	
Tetrahydrofuran	<51.	µg/kgdrywt	1.0	50	EPA 8260	08/30/96	IS	
1,2-Dichloroethane-d4 (Surr.)	102.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene-d4	101.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value:

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	99.	wt %	1.0	0.10	CLP/CIP SOW	08/26/96	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/23/96 by JF

09/06/96

LJO/ejnkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diesel Range Organics								1
Diesel Range Organics	39.	mg/kgdrywt	1	5.0	8015M-DRO	09/04/96	RH	
o-Terphenyl	83.	%	1		8015M-DRO	09/04/96	RH	
Gasoline Range Organics								2
Gasoline Range Organics	<2.5	mg/kgdrywt	1	2.5	8015M-GRO	09/03/96	RH	
4-Bromofluorobenzene	95.	%	1		8015M-GRO	09/03/96	RH	
					8015M-GRO	09/03/96	RH	
A,A,A-Trifluorotoluene	91.	%	1		8015M-GRO	09/03/96	RH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using METHOD
(2) Sample Preparation on 09/02/96 by RH using 8015M-GRO

09/06/96

LJO/jcblp(dw)/rh

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethyl)ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Chlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,3-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,4-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,2-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroisopropyl) ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
n-Nitroso-dipropylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachloroethane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Nitrobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Isophorone	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Nitrophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using EPA 3550A

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethoxy)methane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
1,2,4-Trichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Naphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chloroaniline	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorobutadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chloro-3-methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Methylnaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorocyclopentadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4,6-Trichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4,5-Trichlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
2-Chloronaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Dimethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Acenaphthylene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
3-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Acenaphthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
4-Nitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
Dibenzofuran	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Diethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Chlorophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Fluorene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
4,6-Dinitro-2-methylphenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	
n-Nitrosodiphenylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
4-Bromophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Hexachlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Pentachlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Carbazole	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Di-n-butylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Butyl benzylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
3,3'-Dichlorobenzidine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(a)anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Chrysene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
bis(2-Ethylhexyl)phthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Di-n-octylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(b)fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(k)fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(a)pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Indeno(1,2,3-cd)pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
Benzo(g,h,i)perylene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	08/31/96	LM	
2-Fluorophenol (% Recovery)	66.	%	1.0		EPA 8270B	08/31/96	LM	
Phenol-d5 (% Recovery)	69.	%	1.0		EPA 8270B	08/31/96	LM	
Nitrobenzene-d5 (% Recovery)	65.	%	1.0		EPA 8270B	08/31/96	LM	
2-Fluorobiphenyl (% Recovery)	78.	%	1.0		EPA 8270B	08/31/96	LM	
2,4,6-Tribromophenol (% Recovery)	79.	%	1.0		EPA 8270B	08/31/96	LM	
Terphenyl-d14 (% Recovery)	81.	%	1.0		EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								
Dichlorodifluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Vinyl chloride	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Bromomethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloroethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Trichlorofluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Methylene chloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Chloroform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Analysis was performed by subcontracted laboratory.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Carbon tetrachloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Benzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Trichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromomethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromodichloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Toluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Tetrachloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromoethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1,2-tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Ethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
m-Xylene/p-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromoform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
o-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Styrene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2,2-Tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Isopropylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Propylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3,5-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
tert-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2,4-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
sec-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Isopropyltoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,4-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromo-3-chloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,4-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Naphthalene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Hexachlorobutadiene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
p-Bromofluorobenzene (%)	114.	%	1.0		EPA 8260	08/30/96	IS	
Acetone	6.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
2-Butanone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
4-Methyl-2-pentanone	<3.	µg/kgdrywt	1.0	3.0	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-4
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-04	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<4.	µg/kgdrywt	1.0	4.0	EPA 8260	08/30/96	IS	
Tetrahydrofuran	<51.	µg/kgdrywt	1.0	50	EPA 8260	08/30/96	IS	
1,2-Dichloroethane-d4 (Surr.)	111.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene-d4	99.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	95.	wt %	1.0	0.10	CLP/CIP SOW	08/26/96	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/23/96 by JF

09/06/96

LJO/ejnkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diesel Range Organics								1
Diesel Range Organics	27.	mg/kgdrywt	1	5.0	8015M-DRO	09/04/96	RH	
o-Terphenyl	70.	%	1		8015M-DRO	09/04/96	RH	
Gasoline Range Organics								2
Gasoline Range Organics	13.0	mg/kgdrywt	1	2.5	8015M-GRO	09/03/96	RH	
4-Bromofluorobenzene	101.	%	1		8015M-GRO	09/03/96	RH	
					8015M-GRO	09/03/96	RH	
A,A,A-Trifluorotoluene	93.	%	1		8015M-GRO	09/03/96	RH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values
(1) Sample Preparation on 08/27/96 by DEW using METHOD
(2) Sample Preparation on 09/02/96 by RH using 8015M-GRO

09/06/96

LJO/jcblp(dw)/rh

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethyl)ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Chlorophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
1,3-Dichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
1,4-Dichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
1,2-Dichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Methylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroisopropyl) ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Methylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
n-Nitroso-dipropylamine	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Hexachloroethane	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Nitrobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Isophorone	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Nitrophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using EPA 3550A

09/06/96

LJO/jcbert/kwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethoxy)methane	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4-Dichlorophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
1,2,4-Trichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Naphthalene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Chloroaniline	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Hexachlorobutadiene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Chloro-3-methylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Methylnaphthalene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Hexachlorocyclopentadiene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4,6-Trichlorophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4,5-Trichlorophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
2-Chloronaphthalene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Nitroaniline	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
Dimethylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Acenaphthylene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/kwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
3-Nitroaniline	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
Acenaphthene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
4-Nitrophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
Dibenzofuran	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrotoluene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Diethylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Chlorophenyl phenyl ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Fluorene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Nitroaniline	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
4,6-Dinitro-2-methylphenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
n-Nitrosodiphenylamine	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Bromophenyl phenyl ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Hexachlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Pentachlorophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/kwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Anthracene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Carbazole	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Di-n-butylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Fluoranthene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Pyrene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Butyl benzylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
3,3'-Dichlorobenzidine	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(a)anthracene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Chrysene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
bis(2-Ethylhexyl)phthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Di-n-octylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(b)fluoranthene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(k)fluoranthene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(a)pyrene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Indeno(1,2,3-cd)pyrene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/kwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(g,h,i)perylene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Fluorophenol (% Recovery)	68.	%	1.1		EPA 8270B	08/31/96	LM	
Phenol-d5 (% Recovery)	70.	%	1.1		EPA 8270B	08/31/96	LM	
Nitrobenzene-d5 (% Recovery)	70.	%	1.1		EPA 8270B	08/31/96	LM	
2-Fluorobiphenyl (% Recovery)	82.	%	1.1		EPA 8270B	08/31/96	LM	
2,4,6-Tribromophenol (% Recovery)	72.	%	1.1		EPA 8270B	08/31/96	LM	
Terphenyl-d14 (% Recovery)	77.	%	1.1		EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/kwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								1,2,-
Dichlorodifluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Vinyl chloride	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Bromomethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloroethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Trichlorofluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Methylene chloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values
(1) "#" flag denotes surrogate compound recovery is out of criteria.
(2) Analysis was performed by subcontracted laboratory.
(3) Surrogate recovery confirmed by a prior analysis on 8/30/96.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chloroform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Carbon tetrachloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Benzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Trichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromomethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromodichloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Toluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,3-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Tetrachloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromoethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Chlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1,2-tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Ethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
m-Xylene/p-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromoform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
o-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Styrene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2,2-Tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Isopropylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Bromobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Propylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3,5-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
tert-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,4-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
sec-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Isopropyltoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,4-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromo-3-chloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-5
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-05	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2,4-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Naphthalene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Hexachlorobutadiene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
p-Bromofluorobenzene (%)	#123	%	1.0		EPA 8260	08/30/96	IS	
Acetone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
2-Butanone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
4-Methyl-2-pentanone	<3.	µg/kgdrywt	1.0	3.0	EPA 8260	08/30/96	IS	
2-Hexanone	<4.	µg/kgdrywt	1.0	4.0	EPA 8260	08/30/96	IS	
Tetrahydrofuran	<53.	µg/kgdrywt	1.0	50	EPA 8260	08/30/96	IS	
1,2-Dichloroethane-d4 (Surr.)	100.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene-d4	99.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Solids-Total Residue (TS)	95.	wt %	1.0	0.10	CLP/CIP SOW	08/26/96	JF	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/23/96 by JF

09/06/96

LJO/ejnkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diesel Range Organics								
Diesel Range Organics	39.	mg/kgdrywt	1	5.0	8015M-DRO	09/04/96	RH	
o-Terphenyl	78.	%	1		8015M-DRO	09/04/96	RH	
Gasoline Range Organics								
Gasoline Range Organics	<2.5	mg/kgdrywt	1	2.5	8015M-GRO	09/03/96	RH	
4-Bromofluorobenzene	96.	%	1		8015M-GRO	09/03/96	RH	
					8015M-GRO	09/03/96	RH	
A,A,A-Trifluorotoluene	90.	%	1		8015M-GRO	09/03/96	RH	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using METHOD
(2) Sample Preparation on 09/02/96 by RH using 8015M-GRO

09/06/96

LJO/jcblp(dw)/rh

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1
Phenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethyl)ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Chlorophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
1,3-Dichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
1,4-Dichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
1,2-Dichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Methylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroisopropyl) ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Methylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
n-Nitroso-dipropylamine	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Hexachloroethane	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Nitrobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Isophorone	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Nitrophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 08/27/96 by DEW using EPA 3550A

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,4-Dimethylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
bis(2-Chloroethoxy)methane	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4-Dichlorophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
1,2,4-Trichlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Naphthalene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Chloroaniline	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Hexachlorobutadiene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Chloro-3-methylphenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Methylnaphthalene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Hexachlorocyclopentadiene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4,6-Trichlorophenol	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4,5-Trichlorophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
2-Chloronaphthalene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Nitroaniline	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
Dimethylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Acenaphthylene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2,6-Dinitrotoluene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
3-Nitroaniline	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
Acenaphthene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
4-Nitrophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
Dibenzofuran	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2,4-Dinitrotoluene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Diethylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Chlorophenyl phenyl ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Fluorene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Nitroaniline	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
4,6-Dinitro-2-methylphenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	
n-Nitrosodiphenylamine	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
4-Bromophenyl phenyl ether	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Hexachlorobenzene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Pentachlorophenol	<900.	µg/kgdrywt	1.1	820	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Phenanthrene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Anthracene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Carbazole	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Di-n-butylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Fluoranthene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Pyrene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Butyl benzylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
3,3'-Dichlorobenzidine	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(a)anthracene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Chrysene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
bis(2-Ethylhexyl)phthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Di-n-octylphthalate	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(b)fluoranthene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(k)fluoranthene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(a)pyrene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Indeno(1,2,3-cd)pyrene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibenzo(a,h)anthracene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
Benzo(g,h,i)perylene	<360.	µg/kgdrywt	1.1	330	EPA 8270B	08/31/96	LM	
2-Fluorophenol (% Recovery)	64.	%	1.1		EPA 8270B	08/31/96	LM	
Phenol-d5 (% Recovery)	67.	%	1.1		EPA 8270B	08/31/96	LM	
Nitrobenzene-d5 (% Recovery)	63.	%	1.1		EPA 8270B	08/31/96	LM	
2-Fluorobiphenyl (% Recovery)	77.	%	1.1		EPA 8270B	08/31/96	LM	
2,4,6-Tribromophenol (% Recovery)	71.	%	1.1		EPA 8270B	08/31/96	LM	
Terphenyl-d14 (% Recovery)	75.	%	1.1		EPA 8270B	08/31/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbkwh/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								
Dichlorodifluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Vinyl chloride	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Bromomethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Chloroethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
Trichlorofluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	08/30/96	IS	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Methylene chloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Chloroform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Analysis was performed by subcontracted laboratory.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Carbon tetrachloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Benzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Trichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
cis-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromomethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromodichloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Toluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
trans-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Dibromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Tetrachloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromoethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,1,2-tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Ethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
m-Xylene/p-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromoform	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
o-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Styrene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,1,2,2-Tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Isopropylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Bromobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
2-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Propylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3,5-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
tert-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2,4-Trimethylbenzene	1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
sec-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,3-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
4-Isopropyltoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,4-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
n-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2-Dibromo-3-chloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,4-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Naphthalene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
Hexachlorobutadiene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
1,2,3-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	08/30/96	IS	
p-Bromofluorobenzene (%)	118.	%	1.0		EPA 8260	08/30/96	IS	
Acetone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
2-Butanone	<5.	µg/kgdrywt	1.0	5.0	EPA 8260	08/30/96	IS	
4-Methyl-2-pentanone	<3.	µg/kgdrywt	1.0	3.0	EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-6
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G-06	Solid	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<4.	µg/kgdrywt	1.0	4.0	EPA 8260	08/30/96	IS	
Tetrahydrofuran	<53.	µg/kgdrywt	1.0	50	EPA 8260	08/30/96	IS	
1,2-Dichloroethane-d4 (Surr.)	97.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	
1,2-Dichlorobenzene-d4	91.	µg/kgdrywt	1.0		EPA 8260	08/30/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-7
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TB-01	Aqueous	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								1
Dichlorodifluoromethane	<1.	µg/L	1.0	2	EPA 8260	08/29/96	IS	
Chloromethane	<1.	µg/L	1.0	2	EPA 8260	08/29/96	IS	
Vinyl chloride	<1.	µg/L	1.0	2	EPA 8260	08/29/96	IS	
Bromomethane	<1.	µg/L	1.0	2	EPA 8260	08/29/96	IS	
Chloroethane	<1.	µg/L	1.0	2	EPA 8260	08/29/96	IS	
Trichlorofluoromethane	<1.	µg/L	1.0	2	EPA 8260	08/29/96	IS	
1,1-Dichloroethene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Methylene chloride	5.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
trans-1,2-Dichloroethene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,1-Dichloroethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
cis-1,2-Dichloroethene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
2,2-Dichloropropane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Bromochloromethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Chloroform	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,1,1-Trichloroethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Analysis was performed by subcontracted laboratory.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-7
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TB-01	Aqueous	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2-Dichloroethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,1-Dichloropropene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Carbon tetrachloride	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Benzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,2-Dichloropropane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Trichloroethene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
cis-1,3-Dichloropropene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Dibromomethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Bromodichloromethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Toluene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
trans-1,3-Dichloropropene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,1,2-Trichloroethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,3-Dichloropropane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Dibromochloromethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Tetrachloroethene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,2-Dibromoethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-7
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TB-01	Aqueous	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Chlorobenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,1,1,2-tetrachloroethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Ethylbenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
m-Xylene/p-Xylene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Bromoform	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
o-Xylene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Styrene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,1,2,2-Tetrachloroethane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,2,3-Trichloropropane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Isopropylbenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Bromobenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
2-Chlorotoluene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
n-Propylbenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
4-Chlorotoluene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,3,5-Trimethylbenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
tert-Butylbenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-7
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TB-01	Aqueous	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,2,4-Trimethylbenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
sec-Butylbenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,3-Dichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
4-Isopropyltoluene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,4-Dichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,2-Dichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
n-Butylbenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,2-Dibromo-3-chloropropane	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,2,4-Trichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Naphthalene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
Hexachlorobutadiene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
1,2,3-Trichlorobenzene	<1.	µg/L	1.0	1	EPA 8260	08/29/96	IS	
p-Bromofluorobenzene (%)	102.	%	1.0		EPA 8260	08/29/96	IS	
Acetone	<5.	µg/L	1.0	5.0	EPA 8260	08/29/96	IS	
2-Butanone	<5.	µg/L	1.0	5.0	EPA 8260	08/29/96	IS	
4-Methyl-2-pentanone	<3.	µg/L	1.0	3.0	EPA 8260	08/29/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVID CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-1801-7
Report Date: 09/06/96
PO No. : 43G/03886-118-004-0209-02
Project : 43G/03886-118-004-0209-02

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
TB-01	Aqueous	CLIENT	08/21/96	08/22/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Hexanone	<4.	µg/L	1.0	4.0	EPA 8260	08/29/96	IS	
Tetrahydrofuran	<50.	µg/L	1.0	50	EPA 8260	08/29/96	IS	
1,2-Dichloroethane-d4 (Surr.)	119.	µg/L	1.0		EPA 8260	08/29/96	IS	
1,2-Dichlorobenzene-d4	98.	µg/L	1.0		EPA 8260	08/29/96	IS	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

09/06/96

LJO/jcbert/lp(dw)

CC: JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin Analytical Services, Inc.
Quality Control Report

Method Blank and Laboratory Control Sample Results

Client: Roy F. Weston
Work Order: WM1801

			METHOD BLANK RESULTS					*LABORATORY CONTROL SAMPLE RESULTS*					
Parameter	Date of Prep	Date of Analysis	Units	Concentration Measured in Blank		Acceptance Range	Practical Quantitation Level**	Units	True Value	Measured Value	Percent Recovered	Acceptance Range (%)	Acceptance Range (mg/kg)
TS -Total Residue	23-Aug-96	26-Aug-96	wt %	< 0.10	<	0.10	0.10					80-120	

** Practical quantitation level is the lowest concentration measurable for samples with normal chemical and physical composition during routine laboratory operations.

DATA QUALITY COMMENTS:
Results of all quality control measurements are within the laboratory and method specified acceptance range except as noted.

0000080

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

Client: Roy F. Weston
Work Order #: WM1801

DRO by GC Method: 8015 Modified

Soil

BLANK: BF0162

CHRONOLOGY

KAS Sample Nos.	Date Extracted	Date Analyzed	DF~
WM1801-1	08/27/96	09/03/96	1
WM1801-2	08/27/96	09/04/96	1
WM1801-3	08/27/96	09/04/96	1
WM1801-4	08/27/96	09/04/96	1
WM1801-5	08/27/96	09/04/96	1
WM1801-6	08/27/96	09/04/96	1

KAS Sample Nos.	Date Extracted	Date Analyzed	DF~

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Blank results listed correspond to the extraction blank prepared with the above samples on date of extraction.
Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Client: Roy F. Weston
Work Order #: WM1801

Laboratory Control Sample Results

DRO by GC Method: 8015 Modified

Soil Matrix

Date of Extraction: 08/27/96
LCS number: LCF0162
Date of Analysis: 09/03/96

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS Dup. Measured Conc.	LCS % Recovery	LCS Dup. % Recovery	Recovery Acceptance Range (%)	Relative Percent Difference	RPD Acceptance Range (%)
DRO Components	mg/Kg	16.7	14.5	NA	87	NA	60-140	NA	0-20
O-terphenyl	mg/Kg	0.667	0.519	NA	78	NA	59-121	NA	0-20

NA = Not Applicable

0000082

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1801

Methods, Chronology of Analysis and Method Blank Results

GRO by GC Method: 8015 Modified

Soil Matrix

CHRONOLOGY

Sample Nos.	Date Extracted	Date Analyzed	Dilution Factor~	Sample Nos.	Date Extracted	Date Analyzed	Dilution Factor~
WM1801-1 (B)	09-02-96	09-02-96	1				
WM1801-2 (B)	09-02-96	09-03-96	1				
WM1801-3 (A)	09-02-96	09-03-96	1				
WM1801-4 (B)	09-02-96	09-03-96	1				
WM1801-5 (B)	09-02-96	09-03-96	1				
WM1801-6 (B)	09-02-96	09-03-96	1				

METHOD BLANK RESULTS*

Compound	Conc. (mg/kg)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

0000083

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM1801

Laboratory Control Sample Results

TPH as Gasoline by GC Method: EPA 8015M

Soil Matrix

Date of Analysis: 9/2/96

Compound	Units	Spike Conc.	LCS Measured Conc.	LCSD Measured Conc.	LCS % Recovery	LCSD % Recovery	Recovery Acceptance Range (%)*	RPD (%)	RPD Acceptance Range (%)*
Gasoline	mg/kg	25	32.6	31.7	130	127	60-140	2.8	0-25

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sets employed for organic analyses. All spike recoveries must be equal to or greater than ten percent, and a minimum of ninety percent of the total number of calculated recoveries plus relative percent differences (RPDs) must be within the specified acceptance ranges.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1801

Methods, Chronology of Analysis and Method Blank Results

Semivolatile Organics by GC/MS Method: 8270B
Sample Preparation Technique: 3550A

Soil/Solid Matrix

CHRONOLOGY

Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor ~	Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor ~
WM1801-1	27-Aug-96	31-Aug-96	K1161	1.0					
WM1801-2	27-Aug-96	31-Aug-96	K1161	1.0					
WM1801-3	27-Aug-96	31-Aug-96	K1161	1.0					
WM1801-4	27-Aug-96	31-Aug-96	K1161	1.0					
WM1801-5	27-Aug-96	31-Aug-96	K1161	1.0					
WM1801-6	27-Aug-96	31-Aug-96	K1161	1.0					
WM1801-1MS	27-Aug-96	31-Aug-96	K1161	1.0					
WM1801-1MSD	27-Aug-96	31-Aug-96	K1161	1.0					

METHOD BLANK RESULTS*

Compound	Conc. (ug/kg)

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and ana For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM1801

Laboratory Control Sample Results

Semivolatile Organics by GC/MS Method: 8270B
Sample Preparation Technique: 3550A

Soil/Solid Matrix

Date of Extraction: 27-Aug-96
Date of Analysis: 31-Aug-96

File: K1161.D

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS % Recovery	Recovery Acceptance Range (%)*
Phenol	ug/Kg	3333	3000	90.0	40-117
2-Chlorophenol	ug/Kg	3333	3030	90.9	43-120
1,4-Dichlorobenzene	ug/Kg	1667	1410	84.6	43-129
N-Nitroso-di-n-propylamine	ug/Kg	1667	1540	92.4	41-141
1,2,4-Trichlorobenzene	ug/Kg	1667	1400	84.0	39-132
4-Chloro-3-methylphenol	ug/Kg	3333	3290	98.7	5-146
Acenaphthene	ug/Kg	1667	1560	93.6	43-132
4-Nitrophenol	ug/Kg	3333	3390	102	D-154
2,4-Dinitrotoluene	ug/Kg	1667	1490	89.4	6-127
Pentachlorophenol	ug/Kg	3333	3150	94.5	D-164
Pyrene	ug/Kg	1667	1570	94.2	29-169

* The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Inchcape Testing Services
Environmental Laboratories

55 South Park Drive
Colchester, VT 05446

75 Green Mountain Drive
South Burlington, VT 05403

Analytical Report

Date: 31 August 1996
ETR No.: 60792 Project No.: 96000
Blank Identification: Blank VBLKA3 for ITS Lab No.'s 31189, 311190 and 311192.

Volatile Organic Compounds in ug/Kg
EPA Method 8260

acetone	7	1,2-dichloropropane	1 U
benzene	1 U	1,3-dichloropropane	1 U
bromobenzene	1 U	2,2-dichloropropane	1 U
bromochloromethane	1 U	1,1-dichloropropene	1 U
bromodichloromethane	1 U	cis-1,3-dichloropropene	1 U
bromoform	1 U	trans-1,3-dichloropropene	1 U
bromomethane	2 U	ethylbenzene	1 U
2-butanone	5 U	hexachlorobutadiene	1 U
n-butylbenzene	1 U	2-hexanone	4 U
sec-butylbenzene	1 U	isopropylbenzene	1 U
tert-butylbenzene	1 U	p-isopropyltoluene	1 U
carbon disulfide	1 U	4-methyl-2-pentanone	3 U
carbon tetrachloride	1 U	methylene chloride	1 U
chlorobenzene	1 U	naphthalene	1 U
chloroethane	2 U	n-propylbenzene	1 U
chloroform	1 U	styrene	1 U
chloromethane	2 U	1,1,1,2-tetrachloroethane	1 U
2-chlorotoluene	1 U	1,1,2,2-tetrachloroethane	1 U
4-chlorotoluene	1 U	tetrachloroethene	1 U
dibromochloromethane	1 U	toluene	1 U
1,2-dibromo-3-chloropropane	1 U	1,2,3-trichlorobenzene	1 U
1,2-dibromoethane	1 U	1,2,4-trichlorobenzene	1 U
dibromomethane	1 U	1,1,1-trichloroethane	1 U
1,2-dichlorobenzene	1 U	1,1,2-trichloroethane	1 U
1,3-dichlorobenzene	1 U	trichloroethene	1 U
1,4-dichlorobenzene	1 U	trichlorofluoromethane	2 U
dichlorodifluoromethane	2 U	1,2,3-trichloropropane	1 U
1,1-dichloroethane	1 U	1,2,4-trimethylbenzene	1 U
1,2-dichloroethane	1 U	1,3,5-trimethylbenzene	1 U
1,1-dichloroethene	1 U	vinyl chloride	2 U
cis-1,2-dichloroethene	1 U	m & p xylenes	1 U
trans-1,2-dichloroethene	1 U	o-xylene	1 U
tetrahydrofuran	50 U		

Summary of Surrogate Recoveries

	% Rec
1,2-dichloroethane-d4	97
bromofluorobenzene	98
1,2-dichlorobenzene-d4	97

U - Undetected. The number is the method specified reporting limit.
J - Detected at a concentration less than the method reporting limit.

Data File: /chem/O.i/OGQC_8260T.b/OGQB002CV.d Page 5
Report Date: 03-Sep-96 14:09:33

Inchcape Environmental

RECOVERY REPORT

Client Name:Katahdin Analytical Services ETR: 60792
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: OGQCLCS Client Smp ID: OGQCLCS
Level: LOW Operator: CMP
Data Type: MS DATA SampleType: LCS
SpikeList File: LCSall.spk Quant Type: ISTD
Method File: /chem/O.i/OGQC_8260T.b/8260T.m
Misc Info: 5G

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMI
1 Dichlorodifluorome	10	11	112.78	60-140
2 Chloromethane	10	9	89.29	60-14
3 Vinyl Chloride	10	9	94.58	60-14
4 Bromomethane	10	8	85.31	60-140
5 Chloroethane	10	9	89.58	60-14
6 Trichlorofluoromet	10	10	100.89	60-14
7 1,1-Dichloroethene	10	9	89.48	60-140
8 Acetone	10	13	129.26	60-140
9 Carbon Disulfide	10	9	87.11	60-14
10 Methylene Chloride	10	8	81.03	60-14
11 trans-1,2-Dichloro	10	8	85.83	60-140
13 1,1-Dichloroethane	10	8	83.18	60-14
14 2,2-Dichloropropan	10	9	90.26	60-14
15 cis-1,2-Dichloroet	10	8	83.42	60-14
16 2-Butanone	10	7	70.76	60-140
17 Bromochloromethane	10	8	79.55	60-14
18 Tetrahydrofuran	10	6	61.60	60-14
19 Chloroform	10	8	81.59	60-140
20 1,1,1-Trichloroeth	10	9	90.66	60-14
21 Carbon Tetrachlori	10	9	91.22	60-14
22 1,1-Dichloropropen	10	9	94.09	60-14
24 Benzene	10	8	83.72	60-140
25 1,2-Dichloroethane	10	8	78.15	60-14
27 Trichloroethene	10	9	89.03	60-14
28 1,2-Dichloropropan	10	8	82.85	60-140
29 Dibromomethane	10	8	78.56	60-14
31 Bromodichlorometha	10	8	78.86	60-14
32 cis-1,3-Dichloropr	10	8	79.21	60-14
33 4-Methyl-2-Pentano	10	7	69.02	60-140
34 Toluene	10	9	88.16	60-14
35 trans-1,3-Dichloro	10	8	80.09	60-14
36 1,1,2-Trichloroeth	10	8	80.51	60-140

Data File: /chem/O.i/OGQC_8260T.b/OGQB002CV.d
Report Date: 03-Sep-96 14:09:33

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
37 Tetrachloroethene	10	10	96.28	60-140
38 1,3-Dichloropropan	10	8	78.78	60-140
39 2-Hexanone	10	8	80.43	60-140
40 Dibromochlorometha	10	8	80.96	60-140
41 1,2-Dibromoethane	10	8	77.52	60-140
43 Chlorobenzene	10	9	86.79	60-140
44 1,1,1,2-Tetrachlor	10	8	85.78	60-140
45 Ethylbenzene	10	9	91.19	60-140
46 m- & p-Xylene	20	18	89.92	60-140
47 o-Xylene	10	9	88.68	60-140
49 Styrene	10	9	87.43	60-140
50 Bromoform	10	7	74.08	60-140
51 Isopropylbenzene	10	9	93.04	60-140
53 Bromobenzene	10	9	86.27	60-140
54 1,1,2,2-Tetrachlor	10	7	73.55	60-140
55 1,2,3-Trichloropro	10	7	73.08	60-140
56 n-Propylbenzene	10	9	93.36	60-140
57 2-Chlorotoluene	10	9	90.56	60-140
58 4-Chlorotoluene	10	9	89.26	60-140
59 1,3,5-Trimethylben	10	9	92.76	60-140
60 tert-Butylbenzene	10	10	95.24	60-140
61 1,2,4-Trimethylben	10	9	90.75	60-140
62 sec-Butylbenzene	10	10	98.96	60-140
63 1,3-Dichlorobenzen	10	9	90.37	60-140
65 p-Isopropyltoluene	10	10	97.26	60-140
66 1,4-Dichlorobenzen	10	9	88.09	60-140
68 1,2-Dichlorobenzen	10	9	90.43	60-140
69 n-Butylbenzene	10	10	101.78	60-140
70 1,2-Dibromo-3-Chlo	10	6	64.71	60-140
71 1,2,4-Trichloroben	10	9	94.06	60-140
72 Hexachlorobutadien	10	11	108.53	60-140
73 Naphthalene	10	7	74.84	60-140
74 1,2,3-Trichloroben	10	9	91.38	60-140

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 23 1,2-Dichloroethane	50	45	90.22	80-120
$ 52 Bromofluorobenzene	50	48	95.06	74-121
$ 67 1,2-Dichlorobenzen	50	47	94.44	80-120

Inchcape Testing Services
Environmental Laboratories

55 South Park Drive
Colchester, VT 05446

75 Green Mountain Drive
South Burlington, VT 05403

Analytical Report

Date: 31 August 1996
ETR No.: 60792 Project No.: 96000
Blank Identification: Blank VBLKV7 for ITS Lab No.'s 311191 and 311193.

Volatile Organic Compounds in ug/Kg
EPA Method 8260

acetone	5 U	1,2-dichloropropane	1 U
benzene	1 U	1,3-dichloropropane	1 U
bromobenzene	1 U	2,2-dichloropropane	1 U
bromochloromethane	1 U	1,1-dichloropropene	1 U
bromodichloromethane	1 U	cis-1,3-dichloropropene	1 U
bromoform	1 U	trans-1,3-dichloropropene	1 U
bromomethane	2 U	ethylbenzene	1 U
2-butanone	5 U	hexachlorobutadiene	1 U
n-butylbenzene	1 U	2-hexanone	4 U
sec-butylbenzene	1 U	isopropylbenzene	1 U
tert-butylbenzene	1 U	p-isopropyltoluene	1 U
carbon disulfide	1 U	4-methyl-2-pentanone	3 U
carbon tetrachloride	1 U	methylene chloride	1 U
chlorobenzene	1 U	naphthalene	1 U
chloroethane	2 U	n-propylbenzene	1 U
chloroform	1 U	styrene	1 U
chloromethane	2 U	1,1,1,2-tetrachloroethane	1 U
2-chlorotoluene	1 U	1,1,2,2-tetrachloroethane	1 U
4-chlorotoluene	1 U	tetrachloroethene	1 U
dibromochloromethane	1 U	toluene	1 U
1,2-dibromo-3-chloropropane	1 U	1,2,3-trichlorobenzene	1 U
1,2-dibromoethane	1 U	1,2,4-trichlorobenzene	1 U
dibromomethane	1 U	1,1,1-trichloroethane	1 U
1,2-dichlorobenzene	1 U	1,1,2-trichloroethane	1 U
1,3-dichlorobenzene	1 U	trichloroethene	1 U
1,4-dichlorobenzene	1 U	trichlorofluoromethane	2 U
dichlorodifluoromethane	2 U	1,2,3-trichloropropane	1 U
1,1-dichloroethane	1 U	1,2,4-trimethylbenzene	1 U
1,2-dichloroethane	1 U	1,3,5-trimethylbenzene	1 U
1,1-dichloroethene	1 U	vinyl chloride	2 U
cis-1,2-dichloroethene	1 U	m & p xylenes	1 U
trans-1,2-dichloroethene	1 U	o-xylene	1 U
tetrahydrofuran	50 U		

Summary of Surrogate Recoveries

	% Rec
1,2-dichloroethane-d4	103
bromofluorobenzene	106
1,2-dichlorobenzene-d4	100

U - Undetected. The number is the method specified reporting limit.
J - Detected at a concentration less than the method reporting limit.

Inchcape Testing Services
Environmental Laboratories

55 South Park Drive
Colchester, VT 05446

75 Green Mountain Drive
South Burlington, VT 05403

Analytical Report

Date: 31 August 1996
ETR No.: 60792 Project No.: 96000
Blank Identification: Blank VBLKV4 for ITS Lab No. 311194.

Volatile Organic Compounds in ug/L
EPA Method 8260

acetone	5 U	1,2-dichloropropane	1 U
benzene	1 U	1,3-dichloropropane	1 U
bromobenzene	1 U	2,2-dichloropropane	1 U
bromochloromethane	1 U	1,1-dichloropropene	1 U
bromodichloromethane	1 U	cis-1,3-dichloropropene	1 U
bromoform	1 U	trans-1,3-dichloropropene	1 U
bromomethane	1 U	ethylbenzene	1 U
2-butanone	5 U	hexachlorobutadiene	1 U
n-butylbenzene	1 U	2-hexanone	4 U
sec-butylbenzene	1 U	isopropylbenzene	1 U
tert-butylbenzene	1 U	p-isopropyltoluene	1 U
carbon disulfide	1 U	4-methyl-2-pentanone	3 U
carbon tetrachloride	1 U	methylene chloride	1 U
chlorobenzene	1 U	naphthalene	1 U
chloroethane	1 U	n-propylbenzene	1 U
chloroform	1 U	styrene	1 U
chloromethane	1 U	1,1,1,2-tetrachloroethane	1 U
2-chlorotoluene	1 U	1,1,2,2-tetrachloroethane	1 U
4-chlorotoluene	1 U	tetrachloroethene	1 U
dibromochloromethane	1 U	toluene	1 U
1,2-dibromo-3-chloropropane	1 U	1,2,3-trichlorobenzene	1 U
1,2-dibromoethane	1 U	1,2,4-trichlorobenzene	1 U
dibromomethane	1 U	1,1,1-trichloroethane	1 U
1,2-dichlorobenzene	1 U	1,1,2-trichloroethane	1 U
1,3-dichlorobenzene	1 U	trichloroethene	1 U
1,4-dichlorobenzene	1 U	trichlorofluoromethane	1 U
dichlorodifluoromethane	1 U	1,2,3-trichloropropane	1 U
1,1-dichloroethane	1 U	1,2,4-trimethylbenzene	1 U
1,2-dichloroethane	1 U	1,3,5-trimethylbenzene	1 U
1,1-dichloroethene	1 U	vinyl chloride	1 U
cis-1,2-dichloroethene	1 U	m & p xylenes	1 U
trans-1,2-dichloroethene	1 U	o-xylene	1 U
tetrahydrofuran	50 U		

Summary of Surrogate Recoveries

	% Rec
1,2-dichloroethane-d4	115
bromofluorobenzene	102
1,2-dichlorobenzene-d4	109

U - Undetected. The number is the method specified reporting limit.
J - Detected at a concentration less than the method reporting limit.

Data File: /chem/M.i/MHG_8260T.b/MHG001QV.d Page 1
Report Date: 29-Aug-1996 10:01

Inchcape Environmental

RECOVERY REPORT

Client Name: Katahdin Analytical Services
Sample Matrix: LIQUID
Lab Smp Id: MHGLCS
Level: LOW
Data Type: MS DATA
SpikeList File: lfball.spk
Method File: /chem/M.i/MHG_8260T.b/8260T.m
Misc Info: 100%

ETR: 60792
Fraction: VOA
Client Smp ID: MHGLCS
Operator: DWR
SampleType: LCS
Quant Type: ISTD

SPIKE	COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
1	Dichlorodifluorome	1	1	110.56	60-140
2	Chloromethane	1	1	111.53	60-140
3	Vinyl Chloride	1	1	106.55	60-14(
4	Bromomethane	1	1	142.64*	60-14(
5	Chloroethane	1	1	127.54	60-140
6	Trichlorofluoromet	1	1	106.85	60-14(
7	1,1-Dichloroethene	1	1	108.16	60-14(
8	Acetone	5	7	134.65	60-14(
9	Carbon Disulfide	1	1	108.33	60-140
10	Methylene Chloride	1	1	120.74	60-14(
11	trans-1,2-Dichloro	1	1	110.89	60-14(
13	1,1-Dichloroethane	1	1	116.26	60-140
14	2,2-Dichloropropan	1	1	116.64	60-14(
15	cis-1,2-Dichloroet	1	1	112.92	60-14(
16	2-Butanone	5	5	92.16	60-14(
17	Bromochloromethane	1	1	114.62	60-140
18	Tetrahydrofuran	50	52	104.56	60-14(
19	Chloroform	1	1	113.38	60-14(
20	1,1,1-Trichloroeth	1	1	110.92	60-140
21	Carbon Tetrachlori	1	1.0	95.30	60-140
22	1,1-Dichloropropen	1	1	117.80	60-14(
24	Benzene	1	1	121.59	60-14(
25	1,2-Dichloroethane	1	1	118.61	60-140
27	Trichloroethene	1	1	115.16	60-140
28	1,2-Dichloropropan	1	1	118.65	60-140
29	Dibromomethane	1	1	117.86	60-140
31	Bromodichlorometha	1	1	110.57	60-140
32	cis-1,3-Dichloropr	1	1	117.59	60-140
33	4-Methyl-2-Pentano	5	6	117.12	60-140
34	Toluene	1	1	115.53	60-140
35	trans-1,3-Dichloro	1	1	120.28	60-140
36	1,1,2-Trichloroeth	1	1	123.13	60-140
37	Tetrachloroethene	1	1	114.69	60-140
38	1,3-Dichloropropan	1	1	118.82	60-140

Data File: /chem/M.i/MHG_8260T.b/MHG001QV.d
Report Date: 29-Aug-1996 10:01

SPIKE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
39 2-Hexanone	5	6	110.80	60-140
40 Dibromochlorometha	1	1	105.98	60-140
41 1,2-Dibromoethane	1	1	110.50	60-140
43 Chlorobenzene	1	1	112.79	60-140
44 1,1,1,2-Tetrachlor	1	1	112.49	60-140
45 Ethylbenzene	1	1	115.18	60-140
46 m- & p-Xylene	2	2	114.27	60-140
47 o-Xylene	1	1	112.87	60-140
49 Styrene	1	1	122.69	60-140
50 Bromoform	1	1	105.29	60-140
51 Isopropylbenzene	1	1	117.88	60-140
53 Bromobenzene	1	1	124.24	60-140
54 1,1,2,2-Tetrachlor	1	1	128.09	60-140
55 1,2,3-Trichloropro	1	1	134.65	60-140
56 n-Propylbenzene	1	1	118.07	60-140
57 2-Chlorotoluene	1	1	116.81	60-140
58 4-Chlorotoluene	1	1	124.12	60-140
59 1,3,5-Trimethylben	1	1	121.92	60-140
60 tert-Butylbenzene	1	1	125.19	60-140
61 1,2,4-Trimethylben	1	1	129.40	60-140
62 sec-Butylbenzene	1	1	138.26	60-140
63 1,3-Dichlorobenzen	1	1	142.72*	60-140
65 p-Isopropyltoluene	1	1	137.72	60-140
66 1,4-Dichlorobenzen	1	1	135.77	60-140
68 1,2-Dichlorobenzen	1	1	141.39*	60-140
69 n-Butylbenzene	1	2	165.85*	60-140
70 1,2-Dibromo-3-Chlo	1	1	149.34*	60-140
71 1,2,4-Trichloroben	1	2	202.91*	60-140
72 Hexachlorobutadien	1	3	331.77*	60-140
73 Naphthalene	1	2	205.56*	60-140
74 1,2,3-Trichloroben	1	2	247.71*	60-140

SURROGATE COMPOUND	CONC ADDED ug/L	CONC RECOVERED ug/L	% RECOVERED	LIMITS
$ 23 1,2-Dichloroethane	2	2	117.90	83-143
$ 52 Bromofluorobenzene	2	2	108.25	86-115
$ 67 1,2-Dichlorobenzen	2	2	117.58	80-120

Inchcape Testing Services
Environmental Laboratories

55 South Park Drive
Colchester, VT 05446

75 Green Mountain Drive
South Burlington, VT 05403

Analytical Report

Date: 31 August 1996
ETR No.: 60839 Project No.: 96000
Blank Identification: Blank VBLKA3 for ITS Lab No. 311292.

Volatile Organic Compounds in ug/Kg
EPA Method 8260

acetone	7	1,2-dichloropropane	1 U
benzene	1 U	1,3-dichloropropane	1 U
bromobenzene	1 U	2,2-dichloropropane	1 U
bromochloromethane	1 U	1,1-dichloropropene	1 U
bromodichloromethane	1 U	cis-1,3-dichloropropene	1 U
bromoform	1 U	trans-1,3-dichloropropene	1 U
bromomethane	2 U	ethylbenzene	1 U
2-butanone	5 U	hexachlorobutadiene	1 U
n-butylbenzene	1 U	2-hexanone	4 U
sec-butylbenzene	1 U	isopropylbenzene	1 U
tert-butylbenzene	1 U	p-isopropyltoluene	1 U
carbon disulfide	1 U	4-methyl-2-pentanone	3 U
carbon tetrachloride	1 U	methylene chloride	1 U
chlorobenzene	1 U	naphthalene	1 U
chloroethane	2 U	n-propylbenzene	1 U
chloroform	1 U	styrene	1 U
chloromethane	2 U	1,1,1,2-tetrachloroethane	1 U
2-chlorotoluene	1 U	1,1,2,2-tetrachloroethane	1 U
4-chlorotoluene	1 U	tetrachloroethene	1 U
dibromochloromethane	1 U	toluene	1 U
1,2-dibromo-3-chloropropane	1 U	1,2,3-trichlorobenzene	1 U
1,2-dibromoethane	1 U	1,2,4-trichlorobenzene	1 U
dibromomethane	1 U	1,1,1-trichloroethane	1 U
1,2-dichlorobenzene	1 U	1,1,2-trichloroethane	1 U
1,3-dichlorobenzene	1 U	trichloroethene	1 U
1,4-dichlorobenzene	1 U	trichlorofluoromethane	2 U
dichlorodifluoromethane	2 U	1,2,3-trichloropropane	1 U
1,1-dichloroethane	1 U	1,2,4-trimethylbenzene	1 U
1,2-dichloroethane	1 U	1,3,5-trimethylbenzene	1 U
1,1-dichloroethene	1 U	vinyl chloride	2 U
cis-1,2-dichloroethene	1 U	m & p xylenes	1 U
trans-1,2-dichloroethene	1 U	o-xylene	1 U
tetrahydrofuran	50 U		

Summary of Surrogate Recoveries

	% Rec
1,2-dichloroethane-d4	97
bromofluorobenzene	98
1,2-dichlorobenzene-d4	97

U - Undetected. The number is the method specified reporting limit.
J - Detected at a concentration less than the method reporting limit.

Data File: /chem/O.i/OGQC_8260T.b/OGQB002CV.d Page 5
Report Date: 03-Sep-96 14:09:33

Inchcape Environmental

RECOVERY REPORT

Client Name:Katahdin Analytical Services ETR: 60839
Sample Matrix: SOLID Fraction: VOA
Lab Smp Id: OGQCLCS Client Smp ID: OGQCLCS
Level: LOW Operator: CMP
Data Type: MS DATA SampleType: LCS
SpikeList File: LCSall.spk Quant Type: ISTD
Method File: /chem/O.i/OGQC_8260T.b/8260T.m
Misc Info: 5G

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
1 Dichlorodifluorome	10	11	112.78	60-140
2 Chloromethane	10	9	89.29	60-140
3 Vinyl Chloride	10	9	94.58	60-140
4 Bromomethane	10	8	85.31	60-140
5 Chloroethane	10	9	89.58	60-140
6 Trichlorofluoromet	10	10	100.89	60-140
7 1,1-Dichloroethene	10	9	89.48	60-140
8 Acetone	10	13	129.26	60-140
9 Carbon Disulfide	10	9	87.11	60-140
10 Methylene Chloride	10	8	81.03	60-140
11 trans-1,2-Dichloro	10	8	85.83	60-140
13 1,1-Dichloroethane	10	8	83.18	60-140
14 2,2-Dichloropropan	10	9	90.26	60-140
15 cis-1,2-Dichloroet	10	8	83.42	60-140
16 2-Butanone	10	7	70.76	60-140
17 Bromochloromethane	10	8	79.55	60-140
18 Tetrahydrofuran	10	6	61.60	60-140
19 Chloroform	10	8	81.59	60-140
20 1,1,1-Trichloroeth	10	9	90.66	60-140
21 Carbon Tetrachlori	10	9	91.22	60-140
22 1,1-Dichloropropen	10	9	94.09	60-140
24 Benzene	10	8	83.72	60-140
25 1,2-Dichloroethane	10	8	78.15	60-140
27 Trichloroethene	10	9	89.03	60-140
28 1,2-Dichloropropan	10	8	82.85	60-140
29 Dibromomethane	10	8	78.56	60-140
31 Bromodichlorometha	10	8	78.86	60-140
32 cis-1,3-Dichloropr	10	8	79.21	60-140
33 4-Methyl-2-Pentano	10	7	69.02	60-140
34 Toluene	10	9	88.16	60-140
35 trans-1,3-Dichloro	10	8	80.09	60-140
36 1,1,2-Trichloroeth	10	8	80.51	60-140

Data File: /chem/O.i/OGQC_8260T.b/OGQB002CV.d
Report Date: 03-Sep-96 14:09:33

SPIKE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
37 Tetrachloroethene	10	10	96.28	60-140
38 1,3-Dichloropropan	10	8	78.78	60-14
39 2-Hexanone	10	8	80.43	60-14
40 Dibromochlorometha	10	8	80.96	60-140
41 1,2-Dibromoethane	10	8	77.52	60-140
43 Chlorobenzene	10	9	86.79	60-14
44 1,1,1,2-Tetrachlor	10	8	85.78	60-14
45 Ethylbenzene	10	9	91.19	60-140
46 m- & p-Xylene	20	18	89.92	60-14
47 o-Xylene	10	9	88.68	60-14
49 Styrene	10	9	87.43	60-140
50 Bromoform	10	7	74.08	60-140
51 Isopropylbenzene	10	9	93.04	60-14
53 Bromobenzene	10	9	86.27	60-14
54 1,1,2,2-Tetrachlor	10	7	73.55	60-140
55 1,2,3-Trichloropro	10	7	73.08	60-14
56 n-Propylbenzene	10	9	93.36	60-14
57 2-Chlorotoluene	10	9	90.56	60-14
58 4-Chlorotoluene	10	9	89.26	60-140
59 1,3,5-Trimethylben	10	9	92.76	60-14
60 tert-Butylbenzene	10	10	95.24	60-14
61 1,2,4-Trimethylben	10	9	90.75	60-140
62 sec-Butylbenzene	10	10	98.96	60-14
63 1,3-Dichlorobenzen	10	9	90.37	60-14
65 p-Isopropyltoluene	10	10	97.26	60-14
66 1,4-Dichlorobenzen	10	9	88.09	60-140
68 1,2-Dichlorobenzen	10	9	90.43	60-14
69 n-Butylbenzene	10	10	101.78	60-14
70 1,2-Dibromo-3-Chlo	10	6	64.71	60-140
71 1,2,4-Trichloroben	10	9	94.06	60-14
72 Hexachlorobutadien	10	11	108.53	60-14
73 Naphthalene	10	7	74.84	60-14
74 1,2,3-Trichloroben	10	9	91.38	60-140

SURROGATE COMPOUND	CONC ADDED ug/Kg	CONC RECOVERED ug/Kg	% RECOVERED	LIMITS
$ 23 1,2-Dichloroethane	50	45	90.22	80-12
$ 52 Bromofluorobenzene	50	48	95.06	74-12
$ 67 1,2-Dichlorobenzen	50	47	94.44	80-120

Katahdin ANALYTICAL SERVICES
340 County Road No. 5
P.O. Box 720
Westbrook, ME 04098
Tel: (207) 874-2400

CHAIN of CUSTODY

PLEASE PRINT IN PEN

Client: ROY F. WESTON, INC.
Contact: DAVID CRISPO
Phone #: (508) 772-7190
Fax #: (508) 772-7251
Address:
City: AYER
State: MA
Zip Code: 01432-0425
P.O. #: BOX 425
Proj. Name/No.: 436 / 03586-118-004-0209-02
Bill (if different than above):
Address:
Sample (Print/Sign):
Copies To:

LAB USE ONLY
WORK ORDER #: NM1801
KATAHDIN PROJECT MANAGER:

REMARKS:

SHIPPING INFO: ☒ FED EX ☐ UPS ☐ CLIENT
AIRBILL NO:
TEMP°C: ☐ TEMP BLANK ☐ INTACT ☐ NOT INTACT

ANALYSIS AND CONTAINER TYPE PRESERVATIVES

*	Sample Description	Date/Time coll'd	Matrix	Filt. Y/N	No. of Cntrs.	VOC 8260	SVOC 8270	DRO/GRO 8015								
	436-01	8/21/96/1105	Soil	N	2	X	X	X								
	436-02	/1110			2	X	X	X								
	436-03	/1115			2	X	X	X								
	436-04	/1120			2	X	X	X								
	436-05	/1125			2	X	X	X								
	436-06	/1125			2	X	X	X								
	TB-01	/1600	Aq		2	X										
	TEMP BLANK	/1600	Aq		1	—	—									
		/														
		/														
		/														
		/														
		/														
		/														
		/														
		/														

COMMENTS

Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
Daniel Crispo	8/21/96 1630				
Relinquished By: (Signature)	Date / Time	Received By: (Signature)	Relinquished By: (Signature)	Date / Time	Received By: (Signature)
				8/22/96 1027	

ATTACHMENT K

AOC 43G

FUEL OIL UST - AREA 3
STOCKPILED SOIL WASTE CHARACTERIZATION
ROY F. WESTON, INC.

Samples collected September 25, 1996

Katahdin
ANALYTICAL SERVICES

October 15, 1996

Mr. Dave Crispo
Roy F. Weston
P.O. Box 425
Ayer, MA 01432

RE: Katahdin Lab Number: WM2157
Project ID: Fort Devens
Project Manager: Ms. Lil Pepin
Sample Receipt Date: September 27, 1996

Dear Mr. Crispo:

Please find enclosed the following information:

* Report of Analysis
* Quality Control Data Summary
* Confirmation
* Chain of Custody

Should you have any questions or comments concerning this Report of Analysis, please do not hesitate to contact the project manager listed above. This cover letter is an integral part of the ROA.

We appreciate your continued use of our laboratory and look forward to working with you in the future. The following signature indicates technical review and acceptance of the data.

Sincerely,

KATAHDIN ANALYTICAL SERVICES

Deborah J. Nadeau
Authorized Signature

10·16·96
Date

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

NARRATVE

KAS# WM2157
Roy F. Weston

GC LABORATORY

GRO ANALYSIS

The sample was received on September 27, 1996 for GRO analysis according to method 8015M-GRO. The sample was extracted on October 3, 1996 and analyzed on October 4, 1996. Two procedural deviations are noted.

The extraction method blank result, 2.6 mg/Kg, is greater than the laboratory's method PQL of 2.5 mg/Kg. This result indicates the presence of low level, random contamination. The reported sample result is below the method blank result and below the PQL. The sample result is unaffected by the method blank contamination.

The chromatogram for sample WM2157-1 was manually integrated at the beginning of the GRO timed window. This was done to better establish the initial baseline for the GRO timed window. The reported result is from the manually integrated chromatogram.

No other method deviations were observed.

340 County Road No. 5
P.O. Box 720, Westbrook, ME 04098
Tel: (207) 874-2400 Fax: (207) 775-4029

210 West Road No. 5, Portsmouth, NH 03801
Tel: (603) 431-5777 Fax: (603) 436-3356

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Arsenic, Total	15.5	mg/kgdrywt	1.0	0.8	6010	10/02/96	CD	1
Barium, Total	25.3	mg/kgdrywt	1.0	0.50	6010	10/02/96	CD	1
Cadmium, Total	<1.00	mg/kgdrywt	1.0	1.00	6010	10/02/96	CD	1
Chromium, Total	20.8	mg/kgdrywt	1.0	1.50	6010	10/02/96	CD	1
Lead, Total	7.96	mg/kgdrywt	1.0	0.50	6010	10/03/96	EM	1
Mercury, Total	<0.100	µg/gdrywt	1.0	0.100	7471	10/03/96	DE	2
Selenium, Total	<1.0	mg/kgdrywt	1.0	1.0	6010	10/02/96	CD	1
Silver, Total	<1.50	mg/kgdrywt	1.0	1.50	6010	10/02/96	CD	1

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/01/96 by DJP using 3050
(2) Sample Preparation on 09/30/96 by DJP using 7471

10/15/96

LJO/kdwlp(dw)/tl
MJ01GFS1
CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/9

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Corrosivity as pH	7.0	pH units	1.0	0.10	SW9045	09/30/96	JF	
Cyanide, Reactive	<2.0	mg/kg	1.0	2.0	SW7.3	10/03/96	WL	2
Ignitability-Flash Point	>65	degrees C	1.0	25	1010	10/07/96	WL	
Paint Filter Liquids Test	NFL	mg/Kg	1.0		9095	10/07/96	BC	
Solids-Total Residue (TS)	96.	wt %	1.0	0.10	CLP/CIP SOW	10/01/96	JF	1
Sulfide, Reactive	<27	mg/kg	1.0	27	SW7.3	10/02/96	WL	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 09/30/96 by JF
(2) Sample Preparation on 10/02/96 by WHL
(3) NFL=No Free Liquids

10/15/96

LJO/ejnlp(dw)/whl

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Diesel Range Organics								1,2,3
Diesel Range Organics	170.	mg/kgdrywt	10	5.0	8015M-DRO	10/04/96	RH	
o-Terphenyl	DL	%	10		8015M-DRO	10/04/96	RH	
Gasoline Range Organics								4
Gasoline Range Organics	<2.5	mg/kgdrywt	1.0	2.5	8015M-GRO	10/04/96	TL	
4-Bromofluorobenzene	90.	%	1.0		8015M-GRO	10/04/96	TL	
a,a,a-Trifluorotoluene (%	104.	%	1.0		8015M-GRO	10/04/96	TL	
Herbicides by 8150 -See subbed data			1.0					

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/02/96 by BWG using METHOD
(2) "DL" flag denotes inability to calculate surrogate recovery due to sample dilution.
(3) Sample dilution required for quantitation of one or more target analytes; therefore, standard laboratory Practical Quantitation Level (PQL) could not be achieved.
(4) Sample Preparation on 10/03/96 by TL

10/15/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Pesticides/PCBs by USEPA 8080								1,
alpha-BHC	<1.7	µg/kgdrywt	1	1.7	EPA 8080	10/05/96	SW	
gamma-BHC (Lindane)	<1.7	µg/kgdrywt	1	1.7	EPA 8080	10/05/96	SW	
Heptachlor	<1.7	µg/kgdrywt	1	1.7	EPA 8080	10/05/96	SW	
Aldrin	<1.7	µg/kgdrywt	1	1.7	EPA 8080	10/05/96	SW	
beta-BHC	<1.7	µg/kgdrywt	1	1.7	EPA 8080	10/05/96	SW	
delta-BHC	<1.7	µg/kgdrywt	1	1.7	EPA 8080	10/05/96	SW	
Heptachlor epoxide	<1.7	µg/kgdrywt	1	1.7	EPA 8080	10/05/96	SW	
Endosulfan I	<1.7	µg/kgdrywt	1	1.7	EPA 8080	10/05/96	SW	
4,4'-DDE	<3.3	µg/kgdrywt	1	3.3	EPA 8080	10/05/96	SW	
Dieldrin	<3.3	µg/kgdrywt	1	3.3	EPA 8080	10/05/96	SW	
Endrin	<3.3	µg/kgdrywt	1	3.3	EPA 8080	10/05/96	SW	
4,4'-DDD	<3.3	µg/kgdrywt	1	3.3	EPA 8080	10/05/96	SW	
Endosulfan II	<3.3	µg/kgdrywt	1	3.3	EPA 8080	10/05/96	SW	
4,4'-DDT	J2.4	µg/kgdrywt	1	3.3	EPA 8080	10/05/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/03/96 by BWG using EPA 3550A
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

10/15/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Endrin aldehyde	<3.3	µg/kgdrywt	1	3.3	EPA 8080	10/05/96	SW	
Endosulfan sulfate	<3.3	µg/kgdrywt	1	3.3	EPA 8080	10/05/96	SW	
Methoxychlor	<17.	µg/kgdrywt	1	17	EPA 8080	10/05/96	SW	
Chlordane	<17.	µg/kgdrywt	1	17	EPA 8080	10/05/96	SW	
Toxaphene	<33.	µg/kgdrywt	1	33	EPA 8080	10/05/96	SW	
PCB-1016	<17.	µg/kgdrywt	1	17	EPA 8080	10/05/96	SW	
PCB-1221	<33.	µg/kgdrywt	1	33	EPA 8080	10/05/96	SW	
PCB-1232	<17.	µg/kgdrywt	1	17	EPA 8080	10/05/96	SW	
PCB-1242	<17.	µg/kgdrywt	1	17	EPA 8080	10/05/96	SW	
PCB-1248	<17.	µg/kgdrywt	1	17	EPA 8080	10/05/96	SW	
PCB-1254	<17.	µg/kgdrywt	1	17	EPA 8080	10/05/96	SW	
PCB-1260	<17.	µg/kgdrywt	1	17	EPA 8080	10/05/96	SW	
2,4,5,6-Tetrachloro-meta-xylene	69.	%	1		EPA 8080	10/05/96	SW	
Decachlorobiphenyl (% Recovery)	78.	%	1		EPA 8080	10/05/96	SW	
TCLP Herbicides by USEPA 8150 – See subbed data			1.0					

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/03/96 by BWG using EPA 3550A
(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

10/15/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/9(

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCL Semivolatile Organics by USEPA 8270B								1,
Phenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
bis(2-Chloroethyl)ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2-Chlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
1,3-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
1,4-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
1,2-Dichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
bis(2-Chloroisopropyl) ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
4-Methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
n-Nitroso-dipropylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Hexachloroethane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Nitrobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Isophorone	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value

(1) Sample Preparation on 10/02/96 by BWG using EPA 3550A

(2) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.

10/15/96

LJO/jcbjjc/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Nitrophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2,4-Dimethylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
bis(2-Chloroethoxy)methane	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2,4-Dichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
1,2,4-Trichlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Naphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
4-Chloroaniline	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Hexachlorobutadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
4-Chloro-3-methylphenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2-Methylnaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Hexachlorocyclopentadiene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2,4,6-Trichlorophenol	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2,4,5-Trichlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	10/05/96	LM	
2-Chloronaphthalene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	10/05/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/15/96

LJO/jcbjjc/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/9(

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dimethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Acenaphthylene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2,6-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
3-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	10/05/96	LM	
Acenaphthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2,4-Dinitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	10/05/96	LM	
4-Nitrophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	10/05/96	LM	
Dibenzofuran	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2,4-Dinitrotoluene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Diethylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
4-Chlorophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Fluorene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
4-Nitroaniline	<820.	µg/kgdrywt	1.0	820	EPA 8270B	10/05/96	LM	
4,6-Dinitro-2-methylphenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	10/05/96	LM	
n-Nitrosodiphenylamine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value

10/15/96

LJO/jcbjjc/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Bromophenyl phenyl ether	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Hexachlorobenzene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Pentachlorophenol	<820.	µg/kgdrywt	1.0	820	EPA 8270B	10/05/96	LM	
Phenanthrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Carbazole	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Di-n-butylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Fluoranthene	J41	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Pyrene	J42	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Butyl benzylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
3,3'-Dichlorobenzidine	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Benzo(a)anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Chrysene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
bis(2-Ethylhexyl)phthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Di-n-octylphthalate	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/15/96

LJO/jcbjjc/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/9(

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Benzo(b)fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Benzo(k)fluoranthene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Benzo(a)pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Indeno(1,2,3-cd)pyrene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Dibenzo(a,h)anthracene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
Benzo(g,h,i)perylene	<330.	µg/kgdrywt	1.0	330	EPA 8270B	10/05/96	LM	
2-Fluorophenol (% Recovery)	69.	%	1.0		EPA 8270B	10/05/96	LM	
Phenol-d5 (% Recovery)	75.	%	1.0		EPA 8270B	10/05/96	LM	
Nitrobenzene-d5 (% Recovery)	81.	%	1.0		EPA 8270B	10/05/96	LM	
2-Fluorobiphenyl (% Recovery)	83.	%	1.0		EPA 8270B	10/05/96	LM	
2,4,6-Tribromophenol (% Recovery)	91.	%	1.0		EPA 8270B	10/05/96	LM	
Terphenyl-d14 (% Recovery)	82.	%	1.0		EPA 8270B	10/05/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/15/96

LJO/jcbjjc/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
VOAs (8260)								1,2
Dichlorodifluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	10/04/96	DW	
Chloromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	10/04/96	DW	
Vinyl chloride	<2.	µg/kgdrywt	1.0	2	EPA 8260	10/04/96	DW	
Bromomethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	10/04/96	DW	
Chloroethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	10/04/96	DW	
Trichlorofluoromethane	<2.	µg/kgdrywt	1.0	2	EPA 8260	10/04/96	DW	
1,1-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Methylene chloride	B7	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
trans-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,1-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
cis-1,2-Dichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
2,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Bromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Chloroform	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) "J" flag denotes an estimated value less than the Laboratory's Practical Quantitation Level.
(2) "B" flag denotes detection of this analyte in the laboratory method blank analyzed concurrently with the sample.

10/15/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
1,1,1-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,2-Dichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,1-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Carbon tetrachloride	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Benzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,2-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Trichloroethene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
cis-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Dibromomethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Bromodichloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Toluene	J1	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
trans-1,3-Dichloropropene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,1,2-Trichloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,3-Dichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Dibromochloromethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/15/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Tetrachloroethene	J0.8	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,2-Dibromoethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Chlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,1,1,2-tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Ethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
m-Xylene/p-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Bromoform	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
o-Xylene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Styrene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,1,2,2-Tetrachloroethane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,2,3-Trichloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Isopropylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Bromobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
2-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
n-Propylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/15/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
4-Chlorotoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,3,5-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
tert-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,2,4-Trimethylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
sec-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,3-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
4-Isopropyltoluene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,4-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,2-Dichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
n-Butylbenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,2-Dibromo-3-chloropropane	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,2,4-Trichlorobenzene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Naphthalene	JB0.9	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
Hexachlorobutadiene	<1.	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	
1,2,3-Trichlorobenzene	JB0.8	µg/kgdrywt	1.0	1	EPA 8260	10/04/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values

10/15/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-1
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
Dibromofluoromethane (Surr.)	112.	%	1.0		EPA 8260	10/04/96	DW	
Toluene-d8 (%)	93.	%	1.0		EPA 8260	10/04/96	DW	
p-Bromofluorobenzene (%)	76.	%	1.0		EPA 8260	10/04/96	DW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/15/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-2
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP*Extraction	****	****	1.0	****	1311	10/02/96	DW	-
TCLP-Arsenic	<0.500	mg/L	5.0	0.500	6010	10/04/96	EM	2
TCLP-Barium	0.774	mg/L	5.0	0.500	6010	10/04/96	EM	
TCLP-Cadmium	<0.100	mg/L	5.0	0.100	6010	10/04/96	EM	
TCLP-Chromium	<0.500	mg/L	5.0	0.500	6010	10/04/96	EM	2
TCLP-Lead	<0.500	mg/L	5.0	0.500	6010	10/04/96	EM	2
TCLP-Mercury	<2.00	µg/L	1.0	2.00	245.1	10/04/96	GB	3
TCLP-Selenium	<0.100	mg/L	5.0	0.100	6010	10/04/96	EM	2
TCLP-Silver	<0.500	mg/L	5.0	0.500	6010	10/04/96	EM	2

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/01/96 by DJP using 1311
(2) Sample Preparation on 10/03/96 by DJP using 3010
(3) Sample Preparation on 10/03/96 by DJP using 245.1

10/15/96

LJO/kdwlp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-2
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Pesticides by USEPA 1311/8080								1
TCLP - gamma-BHC (Lindane)	<0.3	µg/L	1	0.25	1311/8080	10/04/96	SW	
TCLP - Heptachlor	<0.3	µg/L	1	0.25	1311/8080	10/04/96	SW	
TCLP - Heptachlor Epoxide	<0.3	µg/L	1	0.25	1311/8080	10/04/96	SW	
TCLP - Endrin	<0.5	µg/L	1	0.50	1311/8080	10/04/96	SW	
TCLP - Methoxychlor	<2.5	µg/L	1	2.5	1311/8080	10/04/96	SW	
TCLP - Chlordane	<2.5	µg/L	1	2.5	1311/8080	10/04/96	SW	
TCLP - Toxaphene	<5.	µg/L	1	5.0	1311/8080	10/04/96	SW	
2,4,5,6-Tetrachloro-meta-xylene (%	70.	%	1		1311/8080	10/04/96	SW	
Decachlorobiphenyl (% Recovery)	87.	%	1		1311/8080	10/04/96	SW	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.
(1) Sample Preparation on 10/02/96 by KGT using EPA 1311/3510

10/15/96

LJO/jcblp(dw)/sw

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-2
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Semivolatile Organics by USEPA 1311/8270								1,
Pyridine	<250.	µg/L	5.0	50	1311/8270	10/09/96	LM	
1,4-Dichlorobenzene	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
2-Methylphenol	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
3-Methylphenol	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
4-Methylphenol	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
Hexachloroethane	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
Nitrobenzene	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
Hexachlorobutadiene	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
2,4,6-Trichlorophenol	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
2,4,5-Trichlorophenol	<130.	µg/L	5.0	25	1311/8270	10/09/96	LM	
2,4-Dinitrotoluene	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
Hexachlorobenzene	<50.	µg/L	5.0	10	1311/8270	10/09/96	LM	
Pentachlorophenol	<130.	µg/L	5.0	25	1311/8270	10/09/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value:

(1) Sample Preparation on 10/04/96 by DEW using EPA 1311/3510

(2) Initial volume 200 ml, resulting in elevated PQLs.

10/15/96

LJO/jcbjjc/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-2
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED DATE	RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
2-Fluorophenol (% Recovery)	79.	%	5.0		1311/8270	10/09/96	LM	
Phenol-d5 (% Recovery)	77.	%	5.0		1311/8270	10/09/96	LM	
Nitrobenzene-d5 (% Recovery)	90.	%	5.0		1311/8270	10/09/96	LM	
2-Fluorobiphenyl (% Recovery)	87.	%	5.0		1311/8270	10/09/96	LM	
2,4,6-Tribromophenol (% Recovery)	88.	%	5.0		1311/8270	10/09/96	LM	
Terphenyl-d14 (% Recovery)	89.	%	5.0		1311/8270	10/09/96	LM	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample-specific reporting limits. Sample-specific limits are indicated by results annotated with '<' values.

10/15/96

LJO/jcbjjc/kwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

Katahdin
ANALYTICAL SERVICES

CLIENT: DAVE CRISPO
ROY F WESTON
P.O. BOX 425
AYER, MA 01432

Lab Number : WM-2157-2
Report Date: 10/15/96
PO No. : 03886-118-004
Project : FT DEVENS

REPORT OF ANALYTICAL RESULTS

SAMPLE DESCRIPTION	MATRIX	SAMPLED BY	SAMPLED	DATE RECEIVED
43G0209-02-WC	Solid	CLIENT	09/25/96	09/27/96

PARAMETER	RESULT	UNITS	DF	*PQL	METHOD	ANALYZED	BY	NOTES
TCLP Volatile Organics by USEPA Method 1311/8240								
Benzene	<5.	µg/L	1.0	5	1311/8240	10/05/96	SG	
Carbon Tetrachloride	<5.	µg/L	1.0	5	1311/8240	10/05/96	SG	
Chlorobenzene	<5.	µg/L	1.0	5	1311/8240	10/05/96	SG	
Chloroform	<5.	µg/L	1.0	5	1311/8240	10/05/96	SG	
1,2-Dichloroethane	<5.	µg/L	1.0	5	1311/8240	10/05/96	SG	
1,1-Dichloroethene	<5.	µg/L	1.0	5	1311/8240	10/05/96	SG	
2-Butanone	<15.	µg/L	1.0	15	1311/8240	10/05/96	SG	
Tetrachloroethene	<5.	µg/L	1.0	5	1311/8240	10/05/96	SG	
Trichloroethene	<5.	µg/L	1.0	5	1311/8240	10/05/96	SG	
Vinyl chloride	<10.	µg/L	1.0	10	1311/8240	10/05/96	SG	
1,2-Dichloroethane-d4 (% Recovery)	110.	%	1.0		1311/8240	10/05/96	SG	
Toluene-d8 (% Recovery)	102.	%	1.0		1311/8240	10/05/96	SG	
p-Bromofluorobenzene (% Recovery)	97.	%	1.0		1311/8240	10/05/96	SG	

* PQL (Practical Quantitation Level) represents laboratory reporting limits and may not reflect sample specific reporting limits. Sample-specific limits are indicated by results annotated with '<' value
(1) Sample Preparation on 10/01/96 by MB using EPA 1311

10/15/96

LJO/jcbkwh/lp(dw)

CC: 603/228-1334*JOHN LOVELY
ROY F. WESTON, INC.
7 EAGLE SQUARE
CONCORD, NH 03301-4991

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

WM2157-1

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

Matrix: (soil/water) SOIL Lab Sample ID: 314752

Sample wt/vol: 50.0 (g/mL) G Lab File ID: _____

% Moisture: 3 decanted: (Y/N) N Date Received: 10/01/96

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted:10/07/96

Concentrated Extract Volume: 25(mL) Date Analyzed: 10/15/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	120	U
1918-00-9	Dicamba	4.8	U
93-65-2	MCPP	4800	U
94-74-6	MCPA	4800	U
120-36-5	Dichlorprop	48	U
94-75-7	2,4-D	48	U
93-72-1	2,4,5-TP (Silvex)	4.9	U
93-76-5	2,4,5-T	4.9	U
88-85-7	Dinoseb	25	U
94-82-6	2,4-DB	49	U

FORM I HERBICIDES

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
WM2157-1

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

Matrix: (soil/water) WATER Lab Sample ID: 314753

Sample wt/vol: 20.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: 10/01/96

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/03/96

Concentrated Extract Volume: 10(mL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
94-75-7	2,4-D	1.0	U
93-72-1	2,4,5-TP (Silvex)	0.10	U

Katahdin Analytical Services, Inc.

Elements Section

Solid Preparation Blank (P B S)

Client:	Roy F. Weston
Work Order:	WM2157
Prep. Date:	09/01/96
QC Batch ID:	MJ01ICS1

Method 3010 (HCl) Elements:	Method	Measured Conc. (mg/Kg)	Analysis Date	Acceptance Limit (mg/Kg)	Notes
Arsenic	200.7/6010	<0.8	3-Oct-96	0.8	
Barium	200.7/6010	<0.50	3-Oct-96	0.50	
Cadmium	200.7/6010	<1.00	3-Oct-96	1.00	
Chromium	200.7/6010	<1.50	3-Oct-96	1.50	
Lead	200.7/6010	<0.50	3-Oct-96	0.50	
Selenium	200.7/6010	<1.00	3-Oct-96	1.00	
Silver	200.7/6010	<1.50	3-Oct-96	1.50	

Notes:

1) Blank acceptance limits are equivalent to PQLs unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)

Katahdin Analytical Services, Inc.
Elements Section
Solid Laboratory Control Sample (LCSS)

Client:	Roy F. Weston
Work Order:	WM2157
Prep. Date:	09/01/96
QC Batch ID:	MJ01ICS1

Method 3010 (HCl)	Sample Weight (g):		0.51	Final Volume, FV(m	100	Calculation Factor	196
Element:	**Measured Conc. (mg/L)**	**Measured Conc. (mg/kg)**	**Analysis Date**	**Reference Value (mg/kg)**	**PERCENT RECOVERY**	**Control Limits(mg/Kg)**	**Notes**
Arsenic	1.22	239	3-Oct-96	228	105%	7.44-109	
Barium	1.71	335	3-Oct-96	320	105%	112-340	
Cadmium	0.293	57.5	3-Oct-96	51.4	112%	41.3-90.8	
Chromium	0.494	96.9	3-Oct-96	91.3	106%	29.1-74.1	
Lead	1.020	200	3-Oct-96	176	114%	48.8-129	
Selenium	0.370	72.5	3-Oct-96	75.5	96%	51.3-137	
Silver	0.973	191	3-Oct-96	170	112%	48.8-129	

Notes:

1) The laboratory uses the published certified value and advisory range, respectively, as the true value and acceptance range for this commercially available solid reference material (trace metals in soil).
2) See cover letter for additional information. (if notated)
3) Analysis methods are the same as the analysis methods for the prep blank.
4) Lot 226 received 10-19-95

Katahdin Analytical Services, Inc.
Elements Section

Mercury

Client:	Roy F. Weston
Method:	7471
Work Order:	WM2173

Preparation Blank Soil (P B S)

Prep. Date	Analysis Date	QC Batch ID	Measured Conc. (ug/g)	Acceptance Limit (ug/g)
30-Sep-96	3-Oct-96	MI30HGS1	<0.100	0.100

Laboratory Control Sample Soil (LCSS)

Prep. Date	Analysis Date	QC Batch ID	Measured Conc. (ug/g)	Ref. Value (ug/g)	Calculated Rec. %	Control Limits (%)
30-Sep-96	3-Oct-96	MI30HGS1	3.50	3.30	106%	1.47-5.15

Notes:

1) Blank acceptance limits are equivalent ot PQL's unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)
3) See cover letter for additional information. (if notated)
4) The laboratory uses the published certified value and advisory range, respectively, as the true value and acceptance range for this commercially available solid reference material (trace metals in soil).

Katahdin Analytical Services, Inc.
Elements Section

Client:	Roy F. Weston
Work Order:	WM2157
Prep. Date:	10/03/96
QC Batch ID:	MJ03ICW1

Aqueous Preparation Blank (P B W)

Method 3010 (HCl) Elements:	Method	Measured Conc. (mg/L)	Analysis Date	Acceptance Limit (mg/L)	Notes
Arsenic	200.7/6010	<0.008	4-Oct-96	0.008	
Barium	200.7/6010	<0.050	4-Oct-96	0.050	
Cadmium	200.7/6010	<0.0150	4-Oct-96	0.0150	
Chromium	200.7/6010	<0.025	4-Oct-96	0.025	
Lead	200.7/6010	<0.050	4-Oct-96	0.050	
Selenium	200.7/6010	<0.0050	4-Oct-96	0.0050	
Silver	200.7/6010	<1.0	4-Oct-96	1.0	

Notes:

1) Blank acceptance limits are equivalent to PQLs unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)

Aqueous Laboratory Control Sample (LCSW)

Method 3010 (HCl) Element:	Measured Conc. (mg/L)	Analysis Date	True Value (mg/L)	Calculated Rec (%)	Control Limits (%)	Notes
Arsenic	1.96	4-Oct-96	2.00	98%	80.0-120	
Barium	1.96	4-Oct-96	2.00	98%	80.0-120	
Cadmium	0.0517	4-Oct-96	0.0500	103%	80.0-120	
Chromium	0.194	4-Oct-96	0.200	97%	80.0-120	
Lead	0.507	4-Oct-96	0.500	101%	80.0-120	
Selenium	1.93	4-Oct-96	2.00	97%	80.0-120	
Silver	0.0475	4-Oct-96	0.0500	95%	80.0-120	

Notes:

1) LCS control limits are nominal values, effective 9/15/93
2) See cover letter for additional information. (if notated)
3) Analysis methods are the same as the analysis methods for the prep blank.

Katahdin Analytical Services, Inc.
Elements Section

MERCURY

Client:	Roy F. Weston
Method:	245.1 / 7470
Work Order:	WM2157

Aqueous Preparation Blank (P B W)

Prep. Date	Analysis Date	QC Batch ID	Measured Conc. (ug/L)	Acceptance Limit (ug/L)	Notes
3-Oct-96	3-Oct-96	MJ03HGW1	<0.200	0.200	

Aqueous Laboratory Control Sample (LCSW)

Prep. Date	Analysis Date	QC Batch ID	Measured Conc. (ug/L)	Ref. Value (ug/L)	Calculated Rec. %	Control Limits (%)
3-Oct-96	3-Oct-96	MJ03HGW1	10.4	10.0	104%	80-120

Notes: 1) Blank acceptance limits are equivalent ot PQL's unless otherwise indicated.
2) Random low level contamination is indicated for this parameter. (if notated)
3) See cover letter for additional information. (if notated)

Katahdin Analytical Services, Inc.
Quality Control Report

Method Blank and Laboratory Control Sample Results

Client: Roy F. Weston
Work Order: WM2157

			METHOD BLANK RESULTS				*LABORATORY CONTROL SAMPLE RESULTS*					
Parameter	Date of Prep	Date of Analysis	Units	Concentration Measured in Blank	Acceptance Range	Practical Quantitation Level**	Units	True Value	Measured Value	Percent Recovered	Acceptance Range (%)	Acceptance Range (mg/kg)
TS -Total Residue	30-Sep-96	01-Oct-96	wt %	< 0.10	< 0.10	0.10						
Corrosivity - pH	30-Sep-96	30-Sep-96					pH units	7.00	7.01	100	80-120	
Ignitability (Flash Point)	07-Oct-96	07-Oct-96	°C	NA	NA	25	°C	27.0	26.0	96.3	80-120	
Reactivity - Cyanide	02-Oct-96	03-Oct-96	mg/kg	< 2.0	< 2.0	2.0	mg	0.200	0.030	15.0	10-100	
Reactivity - Sulfide	02-Oct-96	02-Oct-96	mg/kg	< 27	< 27	27	mg	8.79	7.68	87.4	50-150	

** Practical quantitation level is the lowest concentration measurable for samples with normal chemical and physical composition during routine laboratory operations.

DATA QUALITY COMMENTS:
Results of all quality control measurements are within the laboratory and method specified acceptance range except as noted.

0000030

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Methods, Chronology of Analysis and Method Blank Results

Client: Roy F. Weston
SDG #: WM2157

DRO by GC Method: Modified EPA 8015

Soil

BLANK: BF0181

CHRONOLOGY

KAS Sample Nos.	Date Extracted	Date Analyzed	DF~
WM2157-1	10/02/96	10/04/96	10

KAS Sample Nos.	Date Extracted	Date Analyzed	DF~

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Blank results listed correspond to the extraction blank prepared with the above samples on date of extraction.
Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

KATAHDIN ANALYTICAL SERVICES
Maine Laboratory
Quality Control Report

Client: Roy F. Weston
SDG #: WM2157

Laboratory Control Sample Results

DRO by GC Method: Modified EPA 8015

Soil Matrix

Date of Extraction: 10/02/96
LCS number: LCF0181
Date of Analysis: 10/04/96

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS Dup. Measured Conc.	LCS % Recovery	LCS Dup. % Recovery	Recovery Acceptance Range (%)	Relative Percent Difference	RPD Acceptance Range (%)
DRO Components	mg/Kg	16.7	10.6	NA	63	NA	60-140	NA	0-20
O-terphenyl	mg/Kg	0.667	0.447	NA	67	NA	51-120	NA	0-20

NA = Not Applicable

0000032

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Roy F. Weston
Work Order: WM2157

Methods, Chronology of Analysis and Method Blank Results

GRO by GC Method: 8015M-GRO

Soil Matrix

BLK 10/03/96
Result File: 4SP2197
Date Analyzed: 10/03/96

Sample Nos	Date Extracted	Date Analyzed	Dilution Factor~	Sample Nos	Date Extracted	Date Analyzed	Dilution Factor~
WM2157-1	10/03/96	10/04/96	1				

Conc. (mg/kg)	Conc. (mg/kg)
2.6	

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration.

Katahdin Analytical Services, Inc.
Quality Control Report

Client:Roy F. Weston
Work Order: WM2157

Laboratory Control Sample Results

GRO by GC Method: 8015M-GRO

Soil Matrix

Date of Extraction: 10/03/96
Date of Analysis: 10/03/96

Compound	Units	Spike Conc.	LCS Measured Conc.	LSC Dup. Measured Conc.	LCS % Recovery	LSC Dup. % Recovery	Recovery Acceptance Range (%	RPD (%)	RPD Acceptance Range (%)
GRO	mg/kg	25.0	26.2	30.2	105	121	60-140	15.3	0-20

NA = Not applicable.

0000034

Katahdin Analytical Services, Inc.
Quality Control Report

Client:Roy F. Weston

Work Order: WM2157

Matrix Spike/Matrix Spike Duplicate Results

GRO by GC Method: 8150M-GRO

Soil Matrix

Sample No. Spiked:WM2162-2

Compound	Units	Spike Conc.	Sample Conc.	MS Measured Conc.	MSD Measured Conc.	Theoretical Spiked Sample Conc.	MS % Recovery	MSD % Recovery	Recovery Acceptance Range (%) *	RPD (%)	RPD Acceptance Range (%) *
GRO	mg/kg	25.0	<2.8	27.1	30.5	25.0	108	122	60-140	12	0-20

NA = Not applicable.
NC = Not calcuable.

2E
WATER PESTICIDE SURROGATE RECOVERY

Lab Name: Katahdin Analytical Services Contract: _____

Lab Code: Katahdin Case No. _____ SAS # _____ SDG #: _____

GC Column(1): RTX-5 ID: 0.53(mm)
GC Column(2): RTX-1701 ID: 0.53(mm)

	KATAHDIN	TCX 1		TCX 2		DCB 1		DCB 2		OTHER	OTHER	TOT
	SAMPLE NO.	%REC	#	%REC	#	%REC	#	%REC	#	1	2	OUT
1	BP0151	66		66		77		78				0
2	LCP0151	58		58		82		86				0
3	WM2157-2	70		69		87		88				0
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												

QC LIMITS

TCX = Tetrachloro-m-xylene (20-120)
DCB = Decachlorobiphenyl (20-150)

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

2

SOIL PESTICIDE SURROGATE RECOVERY

Lab Name: Katahdin Analytical Services Contract:

Lab Code: Katahdin Case No. SAS # SDG #

GC Column(1): RTX-5 ID: 0.53 (mm)
GC Column(2): RTX-1701 ID: 0.53 (mm)

	CLIENT	TCX 1		TCX 2		DCB 1		DCB 2		OTHER	OTHER	TOT
	SAMPLE NO.	%REC	#	%REC	#	%REC	#	%REC	#	1	2	OUT
1	BP0154	57		58		70		71				0
2	LCP0154	66		67		79		81				0
3	WM2157-1	69		70		78		84				0
4	WM2157-1MS	71		71		73		83				
5	WM2157-1MSD	67		66		67		76				
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												

QC LIMITS

TCX = Tetrachloro-m-xylene (45-110)
DCB = Decachlorobiphenyl (45-135)

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

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.
BP0154

Lab Name: Katahdin Analytical Services Contract: _____
Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____
Lab Sample ID: BP0154 Lab File ID: 8OC1094
Matrix: (soil/water) SOIL Extraction: (Sepf/Cont/Sonc) SONC
Sulfur Cleanup: (Y/N) N Date Extracted: 10/3/96
Date Analyzed (1): 10/5/96 Date Analyzed (2): 10/5/96
Time Analyzed (1): 9:35 Time Analyzed (2): 9:35
Instrument ID (1): GC08A Instrument ID (2): GC08B
GC Column (1): RTX-5 ID: 0.53(mm) GC Column (2): RTX-1701 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2	DILUTION FACTOR
1	10/3/96	LCP0154	10/5/96	10/5/96	1.0
2	43G0209-02-WC	WM2157-1	10/5/96	10/5/96	1.0
3	43G0209-02-WC	WM2157-1MS	10/5/96	10/5/96	1.0
4	43G0209-02-WC	WM2157-1MSD	10/5/96	10/5/96	1.0
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

METHOD BLANK RESULTS*

Compound	Conc. (ug/Kg)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

COMMENTS: _____

4C
PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

BP0151

Lab Name: Katahdin Analytical Services Contract: _____

Lab Code: _____ Case No.: _____ SAS No.: _____ SDG No.: _____

Lab Sample ID:	BP0151	Lab File ID:	8OC1071
Matrix: (soil/water)	WATER	Extraction: (Sepf/Cont/Sonc)	SEPF
Sulfur Cleanup: (Y/N)	N	Date Extracted:	10/2/96
Date Analyzed (1):	10/4/96	Date Analyzed (2):	10/4/96
Time Analyzed (1):	19:54	Time Analyzed (2):	19:54
Instrument ID (1):	GC08A	Instrument ID (2):	GC08B
GC Column (1): RTX-5	ID: 0.53(mm)	GC Column (2): RTX-1701	ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

	CLIENT SAMPLE NO	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2	DILUTION FACTOR
1	10/2/96	LCP0151	10/4/96	10/4/96	1.0
2	43G0209-02-WC	WM2157-2	10/4/96	10/4/96	1.0
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					
25					

METHOD BLANK RESULTS*

Compound	Conc. (ug/Kg)

* Only positive hits have been included. The remaining compounds were below the laboratory Practical Quantitation Levels.

COMMENTS: _____

Karahdin Analytical Services, Inc.
Quality Control Report

Laboratory Control Spike/Laboratory Control Spike Duplicate Results

Water Matrix

Client:	Weston
Work Order:	

Pesticides/PCBs by GC Method:	8081
Sample Preparation Technique:	3510

Date of Extraction:	10/2/96	Sample Name:	LCP0151
Date of Analysis:	10/4/96	Files:	8OC1072.rst

Compound	Spike Added (ug/L)	LCS Concentration (ug/L)	LCSD Concentration (ug/L)	LCS % Recovery	LCSD % Recovery	Acceptance Range (%)	RPD (%)	QC Limits RPD
4,4'-DDD	0.50	0.407	N/A	81	N/A	52-148	N/A	0-30
4,4'-DDE	0.50	0.397	N/A	79	N/A	50-145	N/A	0-30
4,4'-DDT	0.50	0.399	N/A	80	N/A	42-167	N/A	0-30
Aldrin	0.50	0.343	N/A	69	N/A	39-131	N/A	0-30
alpha-BHC	0.50	0.304	N/A	61	N/A	50-130	N/A	0-30
beta-BHC	0.50	0.381	N/A	76	N/A	52-143	N/A	0-30
delta-BHC	0.50	0.400	N/A	80	N/A	50-144	N/A	0-30
Dieldrin	0.50	0.378	N/A	76	N/A	50-153	N/A	0-30
Endosulfan I	0.50	0.381	N/A	76	N/A	48-148	N/A	0-30
Endosulfan II	0.50	0.389	N/A	78	N/A	52-146	N/A	0-30
Endosulfan Sulfate	0.50	0.417	N/A	83	N/A	49-158	N/A	0-30
Endrin	0.50	0.383	N/A	77	N/A	52-153	N/A	0-30
Endrin Aldehyde	0.50	0.392	N/A	78	N/A	37-150	N/A	0-30
Endrin Ketone	0.50	0.383	N/A	77	N/A	48-159	N/A	0-30
gamma-BHC (Lindane)	0.50	0.337	N/A	67	N/A	48-140	N/A	0-30
Heptachlor	0.50	0.351	N/A	70	N/A	41-139	N/A	0-30
Heptachlor Epoxide	0.50	0.382	N/A	76	N/A	51-148	N/A	0-30
Methoxychlor	0.50	0.436	N/A	87	N/A	41-168	N/A	0-30

Surrogate Recovery:	LCS:	TCMX:	58%	LCSD:	TCMX:	N/A
		DCB:	82%		DCB:	N/A

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sets employed for organic analyses. All spike recoveries must be equal to or greater than ten percent, and a minimum of ninety percent of the total number of calculated recoveries plus relative percent differences (RPDs) must be within the specified acceptance ranges.

[redacted]

Quality Control Report

Laboratory Control Spike/Laboratory Control Spike Duplicate Results

Soil Matrix

Client:	Weston
Work Order:	

Pesticides/PCBs by GC Method:	8081
Sample Preparation Technique:	3550

Date of Extraction:	10/2/96	Sample Name:	LCP0154
Date of Analysis:	10/5/96	Files:	8OC1095.rst

Analyte	LCS Spike Added (ug/kg)	LCS Concentration (ug/kg)	LCSD Concentration (ug/kg)	LCS % Recovery	LCSD % Recovery	Acceptance Range (%)	RPD (%)	QC Limit RPD
4,4'-DDD	16.7	14.3	N/A	86	N/A	52-148	N/A	0-30
4,4'-DDE	16.7	14.3	N/A	86	N/A	50-145	N/A	0-30
4,4'-DDT	16.7	15.1	N/A	90	N/A	42-167	N/A	0-30
Aldrin	16.7	14.1	N/A	85	N/A	39-131	N/A	0-30
alpha-BHC	16.7	13.6	N/A	81	N/A	50-130	N/A	0-30
beta-BHC	16.7	14.3	N/A	86	N/A	52-143	N/A	0-30
delta-BHC	16.7	14.6	N/A	88	N/A	50-144	N/A	0-30
Dieldrin	16.7	15.1	N/A	90	N/A	50-153	N/A	0-30
Endosulfan I	16.7	15.0	N/A	90	N/A	48-148	N/A	0-30
Endosulfan II	16.7	14.5	N/A	87	N/A	52-146	N/A	0-30
Endosulfan Sulfate	16.7	14.6	N/A	88	N/A	49-158	N/A	0-30
Endrin	16.7	15.3	N/A	92	N/A	52-153	N/A	0-30
Endrin Aldehyde	16.7	12.5	N/A	75	N/A	37-150	N/A	0-30
Endrin Ketone	16.7	14.8	N/A	89	N/A	48-159	N/A	0-30
gamma-BHC (Lindane)	16.7	13.7	N/A	82	N/A	48-140	N/A	0-30
Heptachlor	16.7	14.8	N/A	89	N/A	41-139	N/A	0-30
Heptachlor Epoxide	16.7	15.3	N/A	92	N/A	51-148	N/A	0-30
Methoxychlor	16.7	15.8	N/A	95	N/A	41-168	N/A	0-30

Surrogate Recovery:	LCS:	TCMX:	66%	LCSD:	TCMX:	N/A
		DCB:	79%		DCB:	N/A

* The laboratory has established the following acceptance criteria for the laboratory control sample/laboratory control sample duplicate (LCS/LCSD) sets employed for organic analyses. All spike recoveries must be equal to or greater than ten percent, and a minimum of ninety percent of the total number of calculated recoveries plus relative percent differences (RPDs) must be within the specified acceptance ranges.

Katahdin Analytical Services, Inc
Quality Control Report

Matrix Spike/Matrix Spike Duplicate Results

Soil Matrix

Client:	Weston
Work Order:	WM2157

Pesticides by GC Method:	8081
Sample Preparation Technique:	3550

Date of Extraction: 10/3/96 Sample Spiked: WM2157-1
Date of Analysis: 10/5/96 Files: 8OC1097.r 8OC1098.rst

Compound	Spike Added (ug/kg)	Sample Concentration (ug/kg)	MS Concentration (ug/kg)	% Recovery	Acceptance Range (%)
4,4'-DDD	17.4	<3.4	18.5	106	31-141
4,4'-DDE	17.4	<3.4	16.2	93	30-145
4,4'-DDT	17.4	2.5	19.7	100	25-160
Aldrin	17.4	<1.8	13.0	75	42-122
alpha-BHC	17.4	<1.8	13.0	75	37-134
beta-BHC	17.4	<1.8	12.0	69	17-147
delta-BHC	17.4	<1.8	18.8	109	19-140
Dieldrin	17.4	<3.4	13.4	77	36-146
Endosulfan I	17.4	<1.8	13.6	78	45-153
Endosulfan II	17.4	<3.4	14.3	82	D-202
Endosulfan Sulfate	17.4	<3.4	17.9	103	26-144
Endrin	17.4	<3.4	16.6	96	30-147
Endrin Aldehyde	17.4	<3.4	11.6	67	**
Endrin Ketone	17.4	<3.4	14.7	85	**
gamma-BHC (Lindane)	17.4	<1.8	13.4	77	32-127
Heptachlor	17.4	<1.8	14.5	83	34-111
Heptachlor Epoxide	17.4	<1.8	13.9	80	37-142
Methoxychlor	17.4	<18	20.7	119	**

Surrogate Recoveries:
MS:
tcmx 71%
dcb = 73%
MSD:
tcmx 67%
dcb = 67%

Compound	Spike Added (ug/kg)	MSD Concentration (ug/kg)	MSD % Recovery	RPD	QC Limit RPD	Recovery Acceptance Range (%)
4,4'-DDD	17.4	18.0	104	2	0-50	31-141
4,4'-DDE	17.4	15.9	92	2	0-50	30-145
4,4'-DDT	17.4	18.9	95	5	0-50	25-160
Aldrin	17.4	12.6	73	3	0-50	42-122
alpha-BHC	17.4	12.7	73	3	0-50	37-134
beta-BHC	17.4	12.0	69	0	0-50	17-147
delta-BHC	17.4	18.8	109	0	0-50	19-140
Dieldrin	17.4	13.0	75	3	0-50	36-146
Endosulfan I	17.4	13.2	76	3	0-50	45-153
Endosulfan II	17.4	13.9	80	3	0-50	D-202
Endosulfan Sulfate	17.4	17.7	102	1	0-50	26-144
Endrin	17.4	16.3	94	2	0-50	30-147
Endrin Aldehyde	17.4	11.3	65	3	0-50	**
Endrin Ketone	17.4	14.3	82	3	0-50	**
gamma-BHC (Lindane)	17.4	13.0	75	3	0-50	32-127
Heptachlor	17.4	14.0	81	3	0-50	34-111
Heptachlor Epoxide	17.4	13.4	77	4	0-50	37-142
Methoxychlor	17.4	19.7	114	5	0-50	**

* Acceptance ranges are obtained when available from the applicable US EPA analytical method. These ranges are based upon method performance data generated from the analysis of quality control check samples and not actual environmental samples. The laboratory does not use the MS/MSD acceptance ranges as quality control acceptance criteria; the MS/MSD data are used to evaluate method performance for the enviromental sample matrix. Please refer to LCS data for assessment of quality control for this method.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM2157

Methods, Chronology of Analysis and Method Blank Results

Semivolatile Organics by GC/MS Method: 8270B
Sample Preparation Technique: 3550

Soil Matrix

CHRONOLOGY

Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor ~	Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor ~
WM2157-1	02-Oct-96	05-Oct-96	K1521	1.0					

METHOD BLANK RESULTS*

Compound	Conc. (ug/Kg)

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM2157

Laboratory Control Sample Results

Semivolatile Organics by GC/MS Method: 8270B
Sample Preparation Technique: 3550A

Soil/Solid Matrix

Date of Extraction: 02-Oct-96
Date of Analysis: 03-Oct-96

File: K1521.D

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS % Recovery	Recovery Acceptance Range (%)*
Phenol	ug/Kg	3333	2500	75.0	40-117
2-Chlorophenol	ug/Kg	3333	2470	74.1	43-120
1,4-Dichlorobenzene	ug/Kg	1667	1270	76.2	43-129
N-Nitroso-di-n-propylamine	ug/Kg	1667	1370	82.2	41-141
1,2,4-Trichlorobenzene	ug/Kg	1667	1230	73.8	39-132
4-Chloro-3-methylphenol	ug/Kg	3333	2620	78.6	5-146
Acenaphthene	ug/Kg	1667	1400	84.0	43-132
4-Nitrophenol	ug/Kg	3333	2870	86.1	D-154
2,4-Dinitrotoluene	ug/Kg	1667	1400	84.0	6-127
Pentachlorophenol	ug/Kg	3333	2840	85.2	D-164
Pyrene	ug/Kg	1667	1470	88.2	29-169

* The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM2157

Methods, Chronology of Analysis and Method Blank Results

Semivolatile Organics by GC/MS Method:	8270
Sample Preparation Technique:	3510/1311

Water Matrix

CHRONOLOGY

Sample Nos	Date Extracted	Date Analyzed	LCS File	Dilution Factor ~	Sample Nos.	Date Extracted	Date Analyzed	LCS File	Dilution Factor ~
WM2157-2	04-Oct-96	09-Oct-96	K1606	5.0					

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, was diluted prior to a The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and anal For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM2157

TCLP LCS Results

Semivolatile Organics by GC/MS Method: 8270
Sample Preparation Technique: 1311/3510

Water Matrix

File No. K1606.D

Compound	Units	Spike Conc.	LCS Measured Conc.	Theoretical Sample Spike Conc.	LCS % Recovery*
Pyridine	ug/L	50	11.2	50	22.4
1,4-Dichlorobenzene	ug/L	50	38.3	50	76.6
2-Methylphenol	ug/L	100	75.4	100	75.4
4-Methylphenol	ug/L	100	70.8	100	70.8
Hexachloroethane	ug/L	50	36.8	50	73.6
Nitrobenzene	ug/L	50	39.4	50	78.8
Hexachlorobutadiene	ug/L	50	34.2	50	68.4
2,4,6-Trichlorophenol	ug/L	100	85.6	100	85.6
2,4,5-Trichlorophenol	ug/L	100	87.2	100	87.2
2,4-Dinitrotoluene	ug/L	50	44.2	50	88.4
Hexachlorobenzene	ug/L	50	44.5	50	89.0
Pentachlorophenol	ug/L	100	99.6	100	99.6

* No acceptance criteria for the TCLP matrix spike recovery have been established by the US EPA. As noted in the method (EPA Method 1311 Toxicity Characteristic Leaching Procedure) the purpose of the matrix spike is to monitor the performance of the analytical methods used and to determine whether matrix interferences exist.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM2157

Methods, Chronology of Analysis and Method Blank Results

Volatile Analysis by GC/MS Method: 8260

Soil/Solid Matrix

CHRONOLOGY

Sample Nos.	Date Analyzed	LCS File	Dilution Factor	Sample Nos.	Date Analyzed	LCS File	Dilution Factor
WM2157-1	04-Oct-96	I4890	1.0				

METHOD BLANK RESULTS*

Compound	Conc. (ug/kg)
Methylene Chloride	4
1,2,4-Trichlorobenzene	J0.6
Naphthalene	J1
1,2,3-Trichlorobenzene	J0.7

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, w diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM2157

Laboratory Control Sample Results

Volatile Organics by GC/MS Method: 8260

Soil Matrix

Date of Analysis: 4-Oct-96 Files: I4890.D

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS % Recovery	Recovery Acceptance Range (%)*
1,1-Dichloroethene	ug/kg	50	44.3	88.6	56-137
Trichloroethene	ug/kg	50	47.3	94.6	55-140
Benzene	ug/kg	50	44.3	88.6	67-130
Toluene	ug/kg	50	48.3	96.6	65-126
Chlorobenzene	ug/kg	50	46.1	92.2	69-125

*The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM2157

Methods, Chronology of Analysis and Method Blank Results

Volatile Analysis by GC/MS Method: 1311/8240

Water Matrix

CHRONOLOGY

Sample Nos.	Date Analyzed	LCS File	Dilution Factor ~	Sample Nos.	Date Analyzed	LCS File	Dilution Factor
WM2157-2	05-Oct-96	Q3428.D	1.0				
WM2157-2MS	05-Oct-96	Q3428.D	1.0				

METHOD BLANK RESULTS*

Compound	Conc. (ug/L)

* Only positive hits have been included. The remaining compounds were not detected in the method blank.

~ The Dilution Factor (DF) indicates whether a sample, prepared in accordance with the analytical method protocol, diluted prior to analysis. The Dilution Factor could also indicate that a smaller aliquot than specified in the method was utilized for sample preparation and analysis. For example, a dilution factor of 5 means that the sample was effectively diluted by a factor of 5 prior to analysis, i.e., the sample was analyzed at 20% its reported concentration. DF does not include the correction factor for conversion to dry weight.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM2157

Laboratory Control Sample Results

Volatile Organics by GC/MS Method: 8240

Water Matrix

Date of Analysis: 5-Oct-96 Files: Q3428.D

Compound	Units	Spike Conc.	LCS Measured Conc.	LCS % Recovery	Recovery Acceptance Range (%)*
1,1-Dichloroethene	ug/l	50	52.5	105	53-136
Trichloroethene	ug/l	50	48.6	97.2	76-119
Benzene	ug/l	50	49.9	99.8	78-128
Toluene	ug/l	50	51.8	104	75-121
Chlorobenzene	ug/l	50	48.3	96.6	74-125

* The laboratory uses the internally established statistical 99% confidence ranges for recovery and relative percent difference (RPD) as the acceptance criteria for this LCS/LCSD.

Katahdin Analytical Services, Inc.
Quality Control Report

Client: Weston
Work Order: WM2157

TCLP Matrix Spike Results

Volatile Organics by GC/MS Method: 1311/8240

Water Matrix

Sample No. Spiked: WM2157-2

Compound	Units	Spike Conc.	Sample Conc.	MS Measured Conc.	Theoretical Sample Spike Conc.	MS % Recovery*
Vinyl Chloride	ug/L	50	<5	50.8	50	102
1,1-Dichloroethene	ug/L	50	<5	49.0	50	98.0
Chloroform	ug/L	50	<5	52.6	50	105
1,2-Dichloroethane	ug/L	50	<5	53.9	50	108
2-Butanone	ug/L	50	<15	49.4	50	98.8
Carbon Tetrachloride	ug/L	50	<5	49.4	50	98.8
Trichloroethene	ug/L	50	<5	46.7	50	93.4
Benzene	ug/L	50	<5	47.5	50	95.0
Tetrachloroethene	ug/L	50	<5	48.2	50	96.4
Chlorobenzene	ug/L	50	<5	47.4	50	94.8

* No acceptance criteria for the TCLP matrix spike recovery have been established by the US EPA. As noted in the method (EPA Method 1311 Toxicity Characteristic Leaching Procedure) the purpose of the matrix spike is to monitor the performance of the analytical methods used and to determine whether matrix interferences exist.

FORM 2
SOIL HERBICIDES SURROGATE RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

GC Column(1): RTX-1701 ID: 0.32 (mm) GC Column(2): RTX-35 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 1 %REC #	S1 2 %REC #	S2 1 %REC #	S2 2 %REC #	S3 1 %REC #	S3 2 %REC #	TOT OUT
01	HBLKG9	101	104					0
02	LCS	93	84					0
03	WM2171-1	106	103					0
04	WM2171-1MS	97	95					0
05	WM2171-1MSD	107	104					0
06	WM2171-2	131	128					0
07	WM2157-1	104	104					0
08	WM2173-1	85	87					0
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY
QC LIMITS

S1 = DCAA (40-150)

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

FORM 3
SOIL HERBICIDES LAB CONTROL SAMPLE

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

Matrix Spike - Sample No.: LCS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC #	QC. LIMITS REC.
Dalapon	1000		620	62	40-150
Dicamba	40		32	80	40-150
MCPP	40000		33000	82	40-150
MCPA	40000		31000	78	40-150
Dichlorprop	400		340	85	40-150
2,4-D	400		320	80	40-150
2,4,5-TP (Silvex)	40		30	75	40-150
2,4,5-T	40		32	80	40-150
Dinoseb	200		0	0	0- 60
2,4-DB	400		340	85	40-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 10 outside limits

COMMENTS: _____

FORM III HERBICIDES

FORM 4
HERBICIDES METHOD BLANK SUMMARY

CLIENT SAMPLE NO.
HBLKG9

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

Lab Sample ID: HBLKG9 Lab File ID: _____

Matrix (soil/water) SOIL Extraction: (SepF/Cont/Sonc) OTHER

Sulfur Cleanup (Y/N) N Date Extracted: 10/07/96

Date Analyzed (1): 10/15/96 Date Analyzed (2): 10/15/96

Time Analyzed (1): 0105 Time Analyzed (2): 0105

Instrument ID (1): 2633_1 Instrument ID (2): 2633_2

GC Column (1): RTX-1701 ID: 0.32(mm) GC Column (2): RTX-35 ID: 0.32(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	LCS	LCS:G9	10/15/96	10/15/96
02	WM2171-1	314748	10/15/96	10/15/96
03	WM2171-1MS	314748MS	10/15/96	10/15/96
04	WM2171-1MSD	314748MD	10/15/96	10/15/96
05	WM2171-2	314750	10/15/96	10/15/96
06	WM2157-1	314752	10/15/96	10/15/96
07	WM2173-1	314754	10/15/96	10/15/96
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.
HBLKG9

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

Matrix: (soil/water) SOIL Lab Sample ID: HBLKG9

Sample wt/vol: 50.0 (g/mL) G Lab File ID: _____

% Moisture: 0 decanted: (Y/N) N Date Received: _____

Extraction: (SepF/Cont/Sonc) OTHER Date Extracted:10/07/96

Concentrated Extract Volume: 25(mL) Date Analyzed: 10/15/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG	Q
75-99-0	Dalapon	120	U
1918-00-9	Dicamba	4.7	U
93-65-2	MCPP	4700	U
94-74-6	MCPA	4700	U
120-36-5	Dichlorprop	47	U
94-75-7	2,4-D	47	U
93-72-1	2,4,5-TP (Silvex)	4.8	U
93-76-5	2,4,5-T	4.8	U
88-85-7	Dinoseb	24	U
94-82-6	2,4-DB	48	U

FORM 2
WATER HERBICIDES SURROGATE RECOVERY

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

GC Column(1): RTX-1701 ID: 0.32 (mm)

	CLIENT SAMPLE NO.	S1 %REC #	S2 %REC #	S3 %REC #	S4 %REC #	S5 %REC #	S6 %REC #	TOT OUT
01	PBLKG3	87						0
02	WM2171-1	86						0
03	WM2171-2	76						0
04	WM2157-1	71						0
05	WM2173-1	77						0
06	WM2171-1MS	86						0
07	G3LCS	68						0
08								
09								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								

ADVISORY QC LIMITS

S1 = DCAA (40-150)

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

FORM 3
WATER HERBICIDES LAB CONTROL SAMPLE

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

Matrix Spike - Sample No.: G3LCS

COMPOUND	SPIKE ADDED (mg/L)	SAMPLE CONCENTRATION (ug/L)	LCS CONCENTRATION (mg/L)	LCS % REC #	QC. LIMITS REC.
2,4-D	0.20		0.17	85	40-150
2,4,5-TP (Silvex)	0.020		0.016	80	40-150

Column to be used to flag recovery and RPD values with an asterisk

* Values outside of QC limits

RPD: 0 out of 0 outside limits
Spike Recovery: 0 out of 2 outside limits

COMMENTS:

FORM 4
HERBICIDES METHOD BLANK SUMMARY

CLIENT SAMPLE NO.

PBLKG3

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

Lab Sample ID: PBLKG3 Lab File ID: _____

Matrix (soil/water) WATER Extraction:(SepF/Cont/Sonc) SEPF

Sulfur Cleanup (Y/N) N Date Extracted: 10/03/96

Date Analyzed (1): 10/04/96 Date Analyzed (2):

Time Analyzed (1): 2111 Time Analyzed (2):

Instrument ID (1): 2633_1 Instrument ID (2):

GC Column (1): RTX-1701 ID: 0.32(mm) GC Column (2): ID:

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS and MSD:

	SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
01	WM2171-1	314749	10/04/96	
02	WM2171-2	314751	10/04/96	
03	WM2157-1	314753	10/04/96	
04	WM2173-1	314755	10/05/96	
05	WM2171-1MS	314749MS	10/05/96	
06	G3LCS	G3LCS	10/05/96	
07				
08				
09				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

COMMENTS: _____

FORM 1
HERBICIDES ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

PBLKG3

Lab Name: INCHCAPE ENVIRONMENTAL Contract: 96000

Lab Code: INCHVT Case No.: 96000 SAS No.: SDG No.: 61651

Matrix: (soil/water) WATER Lab Sample ID: PBLKG3

Sample wt/vol: 20.00 (g/mL) ML Lab File ID: _____

% Moisture: _____ decanted: (Y/N)___ Date Received: _____

Extraction: (SepF/Cont/Sonc) SEPF Date Extracted:10/03/96

Concentrated Extract Volume: 10(mL) Date Analyzed: 10/04/96

Injection Volume: 1.0(uL) Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: ___ Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) MG/L	Q
94-75-7	2,4-D	1.0	U
93-72-1	2,4,5-TP (Silvex)	0.10	U

WESTON Analytics Use Only

Shipped to Katahdin Lab

Custody Transfer Record/Lab Work Request

WM257

WESTON MANAGERS DESIGNERS CONSULTANTS

Page 1 of 1

Client ACOE

Est. Final Proj. Sampling Date

Work Order # 03886-118-004

Project Contact/Phone # Dave Crispo (508) 7727190

AD Project Manager

QC Tier II Del TAT 14 Day

Date Rec'd Date Due

Account #

Refrigerator #																					
#/Type Container	Liquid																				
	Solid	1G	1G	1G	1G	1G	1G		1G		1G	1G									
Volume	Liquid																				
	Solid																				
Preservatives																					
ANALYSES REQUESTED →		ORGANIC							INORG												
		VOA	BNA	Pest/PCB	Herb	DRO/GRO	TCLP		RCRA Metal 8	CN	IGN, Reac., Corros.	Paint filter									

MATRIX CODES:
S - Soil
SE - Sediment
SO - Solid
SL - Sludge
W - Water
O - Oil
A - Air
DS - Drum Solids
DL - Drum Liquids
L - EP/TCLP Leachate
WI - Wipe
X - Other
F - Fish

Lab ID	Client ID/Description	Matrix QC Chosen (✓) MS	MSD	Matrix	Date Collected	Time Collected	WESTON Analytics Use Only														
							8260	8540-8270	8080	8150	5035			SW846							
	4360209-02-WC			S	9/25/96	1415	1	1	1	1	1	1		1		1	1				

FIELD PERSONNEL: COMPLETE ONLY SHADED AREAS

Special Instructions:

Sample shipped in same cooler as Trip Blank 69AF-TB

DATE/REVISIONS:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

WESTON Analytics Use Only

Samples were:
1) Shipped ___ or Hand Delivered ___
Airbill # _____
2) Ambient or Chilled
3) Received in Good Condition Y or N
4) Labels Indicate Properly Preserved Y or N
5) Received Within Holding Times Y or N

COC Tape was:
1) Present on Outer Package Y or N
2) Unbroken on Outer Package Y or N
3) Present on Sample Y or N
4) Unbroken on Sample Y or N

COC Record Present Upon Sample Rec't Y or N

Discrepancies Between Samples Labels and COC Record? Y or N
NOTES:

Relinquished by	Received by	Date	Time
M. Wagner	FedEx	9/26/96	1500
FedEx		9.27.96	1033

Relinquished by	Received by	Date	Time

RFW 21-01-001/A-7/91 L372 ____ L373 ____ L375 ____ L377 ____ L378 Ref# _____ Cooler# _____ 381-596a

FINAL REPORT

0000092