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SUMMARY DATA REPORT

for the:

MIXED-WASTE STORAGE FACILITY

at the

LABORATORY FOR ENERGY-RELATED HEALTH RESEARCH (LEHR) UNIVERSITY OF CALIFORNIA AT DAVIS, CALIFORNIA

prepared for:

United States Department of Energy
Oakland Operations Office
1301 Clay Street
Oakland, California 95612-5208

prepared by:

Weiss Associates
5500 Shellmound Street
Emeryville, CA 94608-2411

and

Environmental Management Services, Inc.
3075 Citrus Circle, Suite 175
Walnut Creek, CA 94598

January 29, 1999
Rev. 0

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Weiss Associates
Environmental Science, Engineering and Management

Approvals Page

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ACRONYMS AND ABBREVIATIONS

Am-241	Americium-241
ANSI	American National Standard Institute
C-14	Carbon-14
CEQA	California Environmental Quality Act
CFR	Code of Federal Regulations
cm^2	Square centimeters
cpm	Counts per minute
Cs-137	Cesium-137
D&D	Decontamination and decommissioning
DAC	Derived air concentration
DOE	U.S. Department of Energy
dpm	Disintegrations per minute
DTSC	Department of Toxic Substances Control
EPA	U.S. Environmental Protection Agency
FC	Field coordinator
HWP	Hazardous work permit
K-40	Potassium-40
LEHR	Laboratory for Energy-Related Health Research
LSC	Liquid scintillation counter
MDA	Minimum detectable activity
Mn-54	Manganese-54
MOA	Memorandum of Agreement
μR	Micro rem
μR/h	Micro rem per hour
MWSF	Mixed-Waste Storage Facility
NIST	National Institute for Standards and Technology

NPL	National Priorities List
OSHA	Occupational Safety and Health Administration
PARCC	Precision, Accuracy, Representativeness, Completeness, and Comparability
Pb-210	Lead-210
Pu-241	Plutonium-241
pCi/g	pico Curies per gram
PHSP	Project Health and Safety Plan
PID	Photoionization detector
PPE	Personal protective equipment
QAMS	EPA Quality Assurance Management Staff
QAPP	Quality Assurance Project Plan
Ra-226	Radium-226
RF	Reliability factor
SHSO	Site Health and Safety Officer
SOP	Standard operating procedure
Sr-90	Strontium-90
SVOCs	Semi-volatile organic compounds
Th-230	Thorium-230
UC Davis	University of California at Davis
VOCs	Volatile organic compounds

1. INTRODUCTION

1.1 Objectives

Radiological/chemical sampling and analysis and radiological surface surveys were conducted in May and June 1998. This summary data report presents the results for sampling and analysis at the Laboratory for Energy Related Health Research (LEHR) site (Site) MWSF located at the University of California at Davis (UC Davis).

1.2 Site Background

The MWSF was used for the storage of hazardous and radioactive mixed-waste from the U.S. Department of Energy (DOE)-funded research program at LEHR. The MWSF is owned by DOE and operated by the DOE contractor for the LEHR Site under a RCRA Part A Permit Application submitted in 1989.

LEHR was established in 1958 at UC Davis as a research laboratory. The DOE-funded research at LEHR focused on the health effects from chronic exposures to radionuclides, primarily Strontium-90 (Sr-90) and Radium-226 (Ra-226) using beagles to simulate radiation effects on humans. In a separate but related project, research animals were exposed to gamma radiation to study the effect of this type of radiation on the development of cancers such as leukemia. DOE-funded research involving the use of small amounts of Plutonium-241 (Pu-241), Cesium-137 (Cs-137), Carbon-14 (C-14), and other radioisotopes was also conducted at LEHR by University-employed scientists.

In 1988, pursuant to a Memorandum of Agreement (MOA) between DOE and UC Davis, DOE's Office of Energy Research decided to close out the research program, remediate the Site as required, and turn the facility and land over to UC Davis for unrestricted use. Site restoration activities, including decontamination and decommissioning (D&D) of laboratory buildings, started in earnest in 1990. In May 1994, as a result of ground water contamination detected during a preliminary investigation and a potential threat to public health and the environment, the U.S. Environmental Protection Agency (EPA) placed the LEHR Site on the National Priorities List (NPL).

In concert with ongoing environmental restoration activities, a waste management program was established by the DOE Oakland Operations Office Waste Management Division. This waste management program focuses on characterization, storage, off-site transportation and disposal of the various legacy waste streams generated from past DOE-funded research activities at LEHR. The program also coordinates the operation of the MWSF at the Site.

1.3 Site and Facility Description

1.3.1 Site Description

The former LEHR Site is a DOE facility located 1.5 miles south of the main UC Davis campus (Figure 1-1). UC Davis owns the land at the Site and DOE owns the buildings and other facilities including the MWSF.

DOE-sponsored research at LEHR has ceased and there are no ongoing routine operations associated with DOE programs that produce waste. After the conclusion of the DOE-funded research program in 1988, numerous legacy waste streams including laboratory containers of chemicals, specimens preserved in organic liquids, cleaners, lubricants, paints and other miscellaneous materials were inventoried during a comprehensive room-by-room inspection. These waste streams were collected from various on-site research buildings and transferred to the MWSF.

1.3.2 Mixed-Waste Storage Facility Description

The MWSF is located in the eastern part of the LEHR Site (Figure 1-2), consisting of a pre-fabricated steel chemical storage shed with three separate lockers (Figure 1-3). This facility was designed to store hazardous or mixed-waste/materials and to provide sound environmental protection against contamination due to spills or leaks. At the same time, these lockers provide a high level of security and protection from the elements. These lockers were built with secondary metal type spill containment compartments and an integrated dry-chemical fire suppression system. This facility is situated on an asphalt pavement.

Designed and built by Chem-Stor in 1989 to meet the requirements for storage of hazardous materials and/or waste, each of the 9′9″ x 23′8″ x 8′5″ lockers include:

- Venting to relieve internal pressures and to limit structural damage in the event of an explosion;
- Static ground connection to protect flammable or combustible materials from ignition by electrical discharge;
- Interior and exterior two-part chemical resistant epoxy paint to protect the steel components from corrosion;
- Additional coal tar sealant coating in the reservoir containment;
- Structural grade 14 and 16 gauge steel construction for maximum security;
- Secondary containment for up to 750 gallons;
- Easy visual inspection of the secondary containment;
- Seismic tie-downs;

- Pressure relief skylights and side vents; and,
- Continuous forced-air ventilation.

The MWSF was used to store hazardous and mixed-waste between 1989 and 1996. All contained waste streams have been properly characterized, packaged and shipped to off-site locations for treatment and/or disposal; the MWSF is now empty.

1.3.3 Facility Survey and Inspection

Visual inspections of the MWSF and adjacent areas were performed and documented weekly. No evidence of leakage was ever observed at the MWSF. Radiological surveys were performed and documented on a monthly basis. After stored waste was removed, no radiation above ambient background was detected inside or outside the MWSF structure.

The MWSF structure was lifted and moved on March 3, 1998 in order to inspect its bottom and the asphalt paved area upon which the MWSF had been situated. After inspection the structure's bottom was found to be in good condition. There were no visible signs of past leakage on the structure's bottom or the asphalt pavement. Radiological surveys were performed around the perimeter bottom of the structure (Appendix A), but not toward the center of the structure due to the danger involved with placing personnel under a raised structure. No radiation above ambient background (measured at the survey location, but outside of the MWSF "footprint") was detected around the structure's perimeter. Additional radiological surveys were conducted over the asphalt surface of the building's "footprint" (Appendix A). All radiological readings of the asphalt "footprint" were below the background value of 40 counts per minute (cpm), except for one area on the eastern edge of the "footprint," where 20-30 cpm above background was measured.

1.3.4 Maximum Waste Inventory

The maximum inventory of waste stored in the MWSF during its operations is (LEHR, 1995):

Waste Designation	Waste Types	Maximum Inventory
Liquid scintillation cocktails	Flammable, Corrosive, Radioactive	150 gallons
Miscellaneous aqueous solutions	Toxic, Radioactive	100 gallons
Miscellaneous organic liquids	Flammable, Radioactive	40 gallons
Miscellaneous organic solids	Toxic, Carcinogenic, Radioactive	80 gallons
Total	---	**370 gallons**

This maximum inventory is less than 18% of the MWSF design capacity of 2100 gallons.

1.3.5 Potential Historical Waste Materials

A list of waste materials that may have been stored at the MWSF is provided below. These waste materials were identified based on sampling, historical records, and operational history of the MWSF (LEHR, 1995).

Radioisotopes

Gamma emitters
Strontium-90
Radium-226
Tritium
Carbon-14
Plutonium-238, 239, 240, 241
Americium-241

Chemicals

Volatile organic compounds (VOCs)
Semi-volatile organic compounds (SVOCs)
Formaldehyde

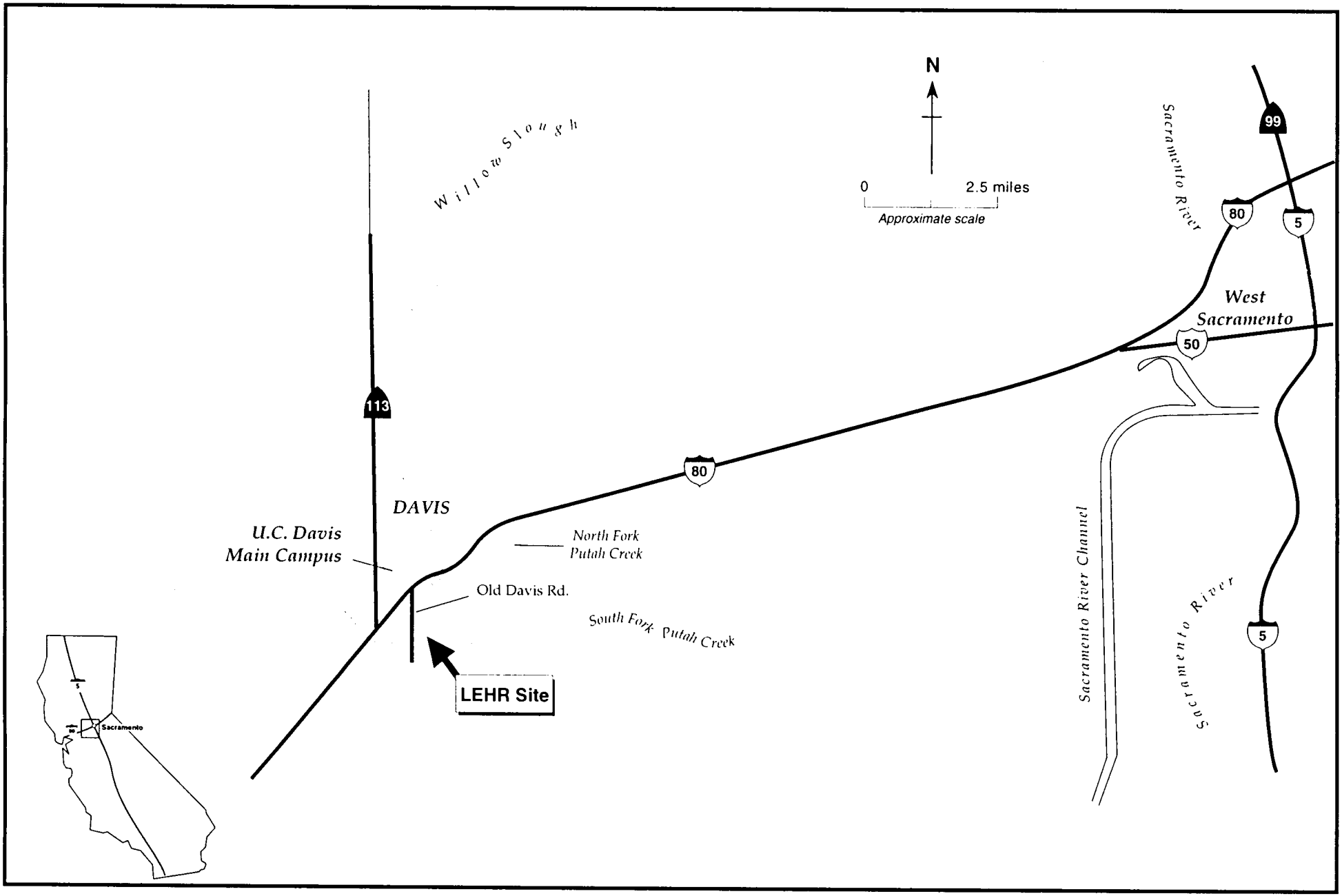

Figure 1–1. LEHR Site Location Map

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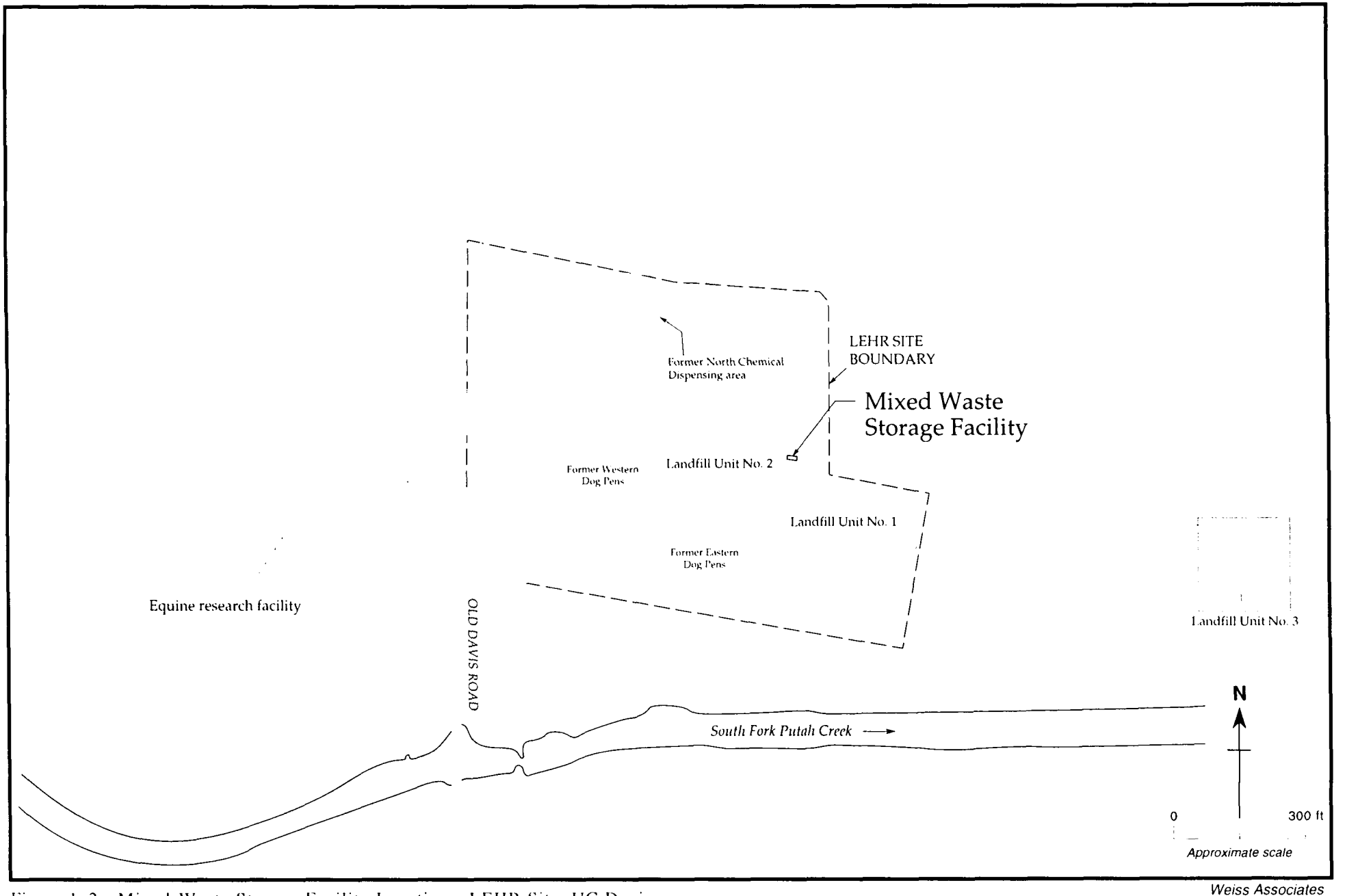

Figure 1–2. Mixed-Waste Storage Facility Location—LEHR Site, UC Davis

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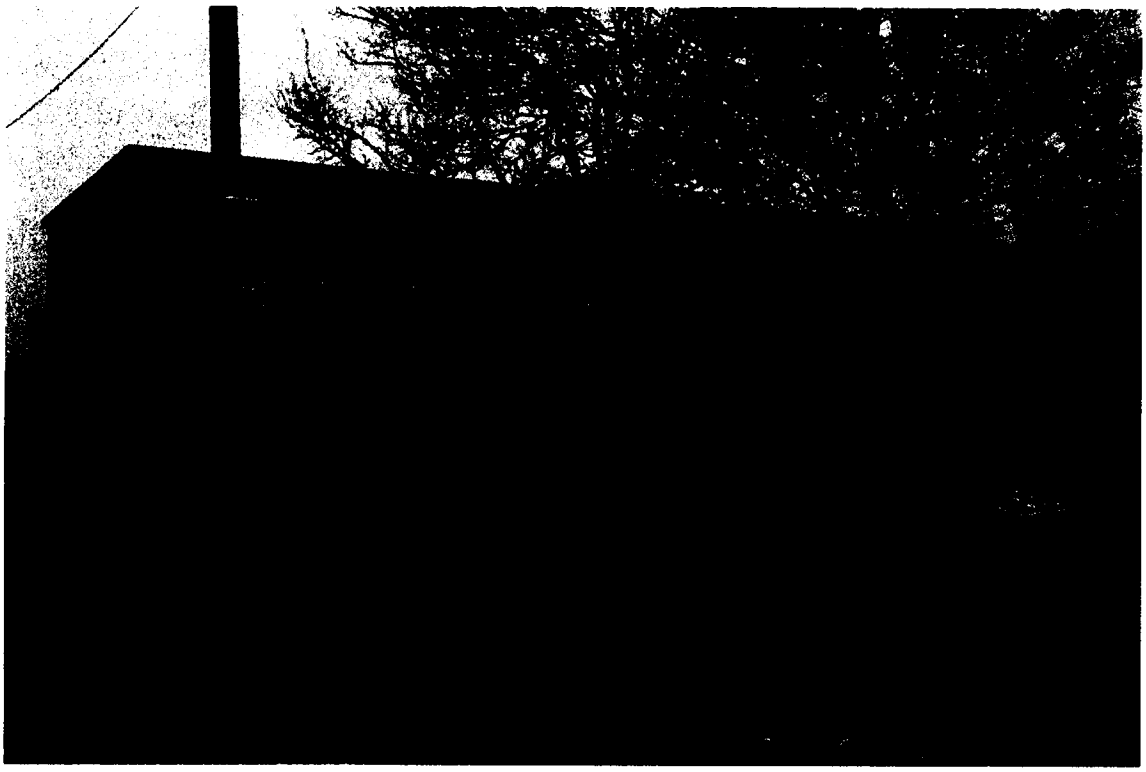


Figure 1–3. Photograph of Mixed-Waste Storage Facility—LEHR Site, UC Davis

2. DESCRIPTION OF SAMPLING AND ANALYSES CONDUCTED

This section describes the field activities performed in May and June 1998 for radiological and chemical sampling and analysis of the MWSF structure and underlying surface soil. The MWSF structure was sampled to determine whether contamination exists within the structure. The surface soil was sampled to determine whether a release of contaminants occurred from the MWSF to the environment. Information from this sampling and analysis activity will be used to update the MWSF Closure Plan (EMS, 1997), and will be provided to the California Department of Toxic Substances Control (DTSC) for use in California Environmental Quality Act (CEQA) determination/exemption for MWSF closure.

Underground utilities were cleared prior to all subsurface sampling. This clearance included UC Davis personnel locating utilities and marking the ground surface indicating the type and orientation of utilities and contacting Underground Services Alert (USA) 48-hours prior to beginning drilling.

All laboratory analyses were performed using the methods specified in the Final Sampling Plan (Weiss Associates, 1998a) by General Engineering Laboratories (GEL) in Charleston, South Carolina. All analytical data were validated in accordance with Section 3 of the Final Sampling Plan (WA, 1998a) and Standard Operating Procedure No. 21.1 – Data Validation.

2.1 Radiological and Chemical Analysis of MWSF Structure

This section describes the requirements and procedures that were used to determine whether residual radiological and chemical contaminants exist within the MWSF structure. Based on the operational history and inspection logs, no pesticides were stored in the MWSF, therefore, analysis for pesticides is not warranted.

2.1.1 Radiological Surface Surveys

The purpose of radiological surveys was to determine whether radiological conditions of the MWSF structure and components satisfy surface residual radioactivity guidelines for unrestricted use established in DOE Order 5400.5 (DOE, 1990), NRC 1.86 (NRC, 1974), or by the State of California (CA, 1977). The MWSF structure and components were classified as follows, based on the guidelines in NUREG/CR-5849 (Berger, 1992):

- **Unaffected areas:** exterior surfaces (four sidewalls and top; bottom previously surveyed on 3/03/98), interior ceiling and interior sidewalls from the ceiling down to two meters above the floor.

- **Affected areas:** interior floor and interior sidewalls from the floor up to two meters above the floor, including secondary containment floors.

For unaffected areas, radiological surveys consisted of 30 randomly selected measurements for total and removable activity. Exposure rate measurements were performed at each location of surface activity measurement. Alpha, beta, and gamma radiation were measured using instruments listed in Table 2-1.

For the affected areas, the following procedures were used.

Reference Grids: The affected areas were gridded for the survey.

Frequency and Pattern: At each storage unit, a 1-meter grid system was established. This grid system was marked using indelible markers so that the grid reference can be easily reproduced. As shown below, the reference grids were divided into four quadrants (A through D) in order to facilitate survey activities.

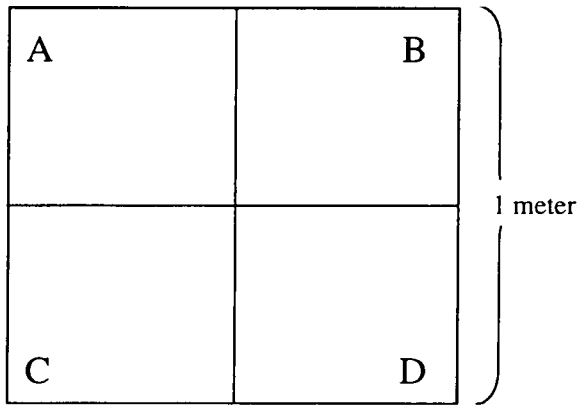


Figure 2-1. Reference Grid Sectors for MWSF Radiological Surveys

Measurement Methodology: Using the reference grids, individual surveys within each of these grids were performed as described below.

All surfaces were 100 percent scanned for alpha and beta contamination using instruments listed in Table 2-1.

Scanning surveys were performed with large area gas-flow proportional detectors. Alpha and beta-gamma measurements were made with a gas-flow proportional detector coupled with a Ludlum Model 2221 scaler/rate meter.

Surfaces were scanned at speeds no greater than five centimeters per second for alpha and beta detection instruments. Audible and displayed indicators were used to identify locations with elevated (greater than ambient) levels of direct radiation. Only one location exhibited an elevated reading (beta/gamma of 230 cpm/100 cm^2 for Room 3 East Wall, Survey Point 1A-Ce; background = 92 cpm/100 cm^2); a direct measurement was made and annotated on the grid map, and the area was marked. Surfaces are not scanned for gamma radiation

because counting efficiencies for gamma radiation with gas-flow proportional detectors are extremely low (< 8%).

Direct measurements were made at the center of the grid and at the center of each quadrant (total of five measurements). Measurements were made by integrating counts over a 1-minute period. One minute count times ensured the MDA is approximately 25 percent of the guidelines for beta-gamma emitters and 30 percent of the guidelines for alpha emitters. These measurements were made with a large area gas-flow proportional detector coupled with a Ludlum Model 2221 scaler/rate meter.

Smear samples for removable contamination were collected at each grid location at the rate of one smear per grid. Smears for removable contamination were analyzed on-site for gross alpha and gross beta activity. Results were reported in dpm/100 cm^2. The smears were counted using a Ludlum Model 2929 dual channel scaler coupled with a phoswich detector. Count time for the smears was sufficient to ensure the MDA is approximately 40 percent of the guideline for beta-gamma emitters and 50 percent of the guidelines for alpha emitters. Low energy beta were counted using a liquid scintillation counter (LSC), Packard Tri-Carb LSC Model 1600TR.

Gamma exposure rates were measured with a micro Rem (μR) meter utilizing a sodium iodide scintillation detector. Measurements were uniformly spaced, and one measurement was made in every square meter of surface area.

Table 2-1. Instrumentation for Radiological Surface Surveys, LEHR MWSF

Type of Measurement	Instrumentation		Background[a]	Efficiency[a] (%)	Detection Sensitivity[a]
	Detector (window)	Meter			
Surface scan – alpha	Large area gas prop. (100 cm^2) Ludlum Model 43-68	Scaler/rate meter[b] Ludlum Model 2221	1 cpm[d]	10	70 dpm/ 100 cm^2
Surface scan – beta	Large area gas prop. (100 cm^2) Ludlum Model 43-68	Scaler/rate meter[b] Ludlum Model 2221	80 cpm	19	370 dpm/ 100 cm^2
Surface activity (grids) – alpha	Large area gas prop. (100 cm^2) Ludlum Model 43-68	Scaler/rate meter[c] Ludlum Model 2221	1 cpm	10	40 dpm/ 100 cm^2
Surface activity (grids) – beta	Large area gas prop. (100 cm^2) Ludlum Model 43-68	Scaler/rate meter[c] Ludlum Model 2221	80 cpm	19	180 dpm/ 100 cm^2
Exposure rates	Scintillation	Ludlum Model 19	5 μR/h	N/A	1 μR/h
Gross alpha/beta on smears	Phoswich Ludlum Model 43-10-1	Dual scaler Ludlum 2929	0.3 cpm α 35 cpm β	30 30	10 dpm 80 dpm

Type of Measurement	Instrumentation		Background[a]	Efficiency[a] (%)	Detection Sensitivity[a]
	Detector (window)	Meter			
Low energy beta on smears	Scintillation	Packard Tri-Carb LSC Model 1600TR	10 cpm	66	266 dpm

Notes:
[a]Typical values
[b]Monitoring by audible signal
[c]1 minute integrated count
[d] cpm – count per minute

Survey Instrumentation: Instruments used for release surveys are listed in Table 2-1. Portable instruments were calibrated semiannually using sources traceable to the National Institute for Standards and Technology (NIST), and they were source-checked daily prior to use. Bench-top alpha and beta counting systems were also calibrated using sources traceable to NIST, and source-checked daily prior to use. Electroplate sources made with Thorium-230 (Th-230) were used for the alpha calibration and check sources. Beta calibration and check sources were made with Strontium-90 (Sr-90). Carbon-14 (C-14) and Tritium (H-3) standards were used to calibrate and source check the LSC instrument.

Prior to initiating radiological survey activities, instrument background levels were determined. These background levels were obtained from areas and structures known to be free of radiological contamination and not associated with site D&D or other cleanup activities. Background levels for scaler instruments were determined by averaging the results of a series of 10 replicate 1-minute integrated counts.

Results of the June 1998 radiological surface surveys are presented in Appendix B and are discussed in Section 3.1.

2.1.2 Radiological and Chemical Sampling and Analysis of Wood Floors

No chemical contamination is suspected at any of the MWSF unit interior or exterior walls, ceiling, or roof, as indicated by a thorough review of facility operation history and inspection/incidents records. It is possible, however, that the wood floor covers and secondary containment of the MWSF units may have become exposed to minor contamination during facility operations. Therefore, the wooden floor covers and secondary containment of each unit were analyzed for chemical constituents. This section describes the field activities performed for radiological and chemical sampling and analysis of the wood flooring.

Wood samples were taken from wood floor covers of each storage unit and analyzed for potential radiological and chemical contaminants listed in Section 1.3.5. Sampling and analysis protocols are specified in Table 2-2, and are in accordance with the LEHR Quality Assurance Project Plan (QAPP) (Weiss Associates, 1998b) and DOE-approved procedures. One wood sample was collected from each MWSF locker, for a total of three wood samples (MFWO0001 through

MFWO0003). Each wood sample was analyzed for both radiological and chemical contaminants as shown in Table 2-2. Analytical methods are provided in Table 2-2.

Table 2-2. Wood Sampling and Analyses Protocol, LEHR MWSF

Analytical Parameter	Method	Recommended Containers	Preservative	Max. Holding Time	Min. Volume Required for Analysis	Detection Limit
Americium-241	Lab SOP[2]	1 x 8-oz. glass or polyethylene jars	None	180 days after collection	1 x 8-oz.	< 0.5 pCi/g
Carbon-14	Lab SOP					< 100 pCi/g
Gross alpha/beta	EPA 9310					< 5 pCi/g gross alpha < 10 pCi/g gross beta
Gamma emitters	EPA 901.1					see Appendix D
Plutonium-238, 239/240, 241	Lab SOP					< 10 pCi/g
Radium-226	EPA 903.1(m)					< 1 pCi/g
Strontium-89, 90 and total Strontium	EPA 905					< 1 pCi/g
Tritium[1]	EPA 906	1 x 8-oz. glass jar	None	180 days after collection	1 x 8-oz.	10 pCi/g
Volatile organic compounds	EPA 8240	1 x 4-oz. glass jar (no headspace)	4°C	14 days	1 x 4-oz.	see Appendix D
Semi-volatile organic compounds	EPA 8270	1 x 4-oz. glass jar	4°C	14 days to extraction, 40 days to analysis	1 x 4-oz.	see Appendix D
Formaldehyde	AOAC[3] 20.062	1 x 4-oz. glass or polyethylene jar	None	28 days	1 x 4-oz.	<1 mg/Kg

Note:
[1] Tritium is very volatile. Sample containers must be air tight to eliminate tritium loss
[2] SOP = Standard Operating Procedure
[3]AOAC = Association of Official Analytical Chemists

Field sampling documentation is presented in Appendix C. Validated results of the radiological and chemical analyses are summarized in Appendix D and discussed in Section 3.2.

2.1.3 Secondary Containment Water Analysis

Water samples were not collected due to the absence of water in the secondary containment trays.

2.1.4 Chemical Sampling and Analysis of Secondary Containment

Wipe samples were collected from the secondary containment trays of each storage unit and analyzed for VOCs, SVOCs and formaldehyde (MFWI0001 through MFWI0003). These samples were collected by wiping a 10 cm x 10 cm (100 cm^2) area with a glass fiber filter (37 mm) wetted with (1) methanol for VOC samples, (2) methylene chloride for SVOC samples or (3) de-ionized

(DI) water for formaldehyde. In addition, a field blank (wipes moistened with the same solvent and placed in the same type of container as the samples) was submitted to the laboratory and analyzed (MFWI0004).

Field sampling documentation is presented in Appendix C. Validated results of the chemical analyses are summarized in Appendix D and are discussed in Section 3.3.

2.2 Radiological and Chemical Analysis of Soil

This section describes the field activities performed for radiological and chemical sampling and analysis of the soil under the MWSF Site. The soil immediately under the asphalt "footprint" was sampled and analyzed to determine whether a contaminant release occurred from the MWSF.

2.2.1 Asphalt Surface Survey

As mentioned in Section 1.3.3, the MWSF structure was lifted and moved on March 3, 1998 to gather information for planning the soil sampling. A "direct frisk" radiological survey was conducted over 100% of the facility's asphalt "footprint," and radiological smears for loose surface contamination were collected at 16 points within the "footprint" (see Appendix A). Each of the 16 smears was collected over a 100 cm^2 area; all readings were less than MDA. All radiological readings of the asphalt "footprint" were below background (40 cpm) except for a two square-foot area on the eastern edge of the "footprint," which was slightly higher than (20-30 cpm above) background.

Chemical sampling of the asphalt was not conducted. The potential contaminants listed in Section 1.3.5 are VOCs, SVOCs, and formaldehyde. Analyses of VOCs and SVOCs in an asphalt matrix are inherently unreliable because asphalt is composed of mainly organic hydrocarbons and tar. Interference from the hydrocarbon matrix will result in high (parts per million level) and misleading detection levels for VOCs and SVOCs, which are not useful in determining whether a release of contaminants has occurred from the MWSF to the environment. Consequently, chemical sampling and analysis of the soil beneath the asphalt was conducted, as described in the next section.

2.2.2 Soil Sampling and Analysis

Based on operational history and inspection logs for the MWSF, soil beneath the facility is not likely to be contaminated. This was confirmed by (1) the asphalt radiological surface survey in which only one point was found to be slightly above background, and (2) the lack of visible stains on the asphalt surface. However, soil samples from beneath the facility were collected on May 14, 1998 to confirm that there is no soil contamination. The soil sampling procedure is described below.

a. Soil samples were collected using a tube sampler.

b. Samples collected from soil underneath the cracks in the asphalt included: One grab sample at 0-6" depth under the storage locker unit No. 1 (MFSS0001) and one grab sample at 0-6" depth under the storage locker unit No. 3 (MFSS0003).

c. Samples collected from low areas off the pavement included: One grab sample at 0-6" depth at the northeast (MFSS0002) and one grab sample at 0-6" depth at the east (MFSS0005).

d. A grab sample at 0-6" depth was taken at the eastern end of the MWSF, at the location where the surface radiation reading was slightly above background (MFSS0004).

e. Soil samples were collected in two 6-inch sample tubes at each sample location. The upper tube was utilized for radionuclide analyses; and the lower tube was utilized for VOC, SVOC and formaldehyde analyses.

f. Prior to sampling at the eastern location (Sampling Location No. 4), the asphalt surface was scraped and radiological surveys were conducted on the newly exposed surface area to determine if radiological contamination exists at the newly exposed surface; there were no elevated readings.

g. One rinsate blank was collected for this soil sampling event (MFWS0001), and analyzed for the same potential radiological and chemical contaminants.

Soil sampling locations are shown in Figure 2-2. Soil sampling and analysis protocols are specified in Table 2-3, and are in accordance with the LEHR QAPP (Weiss Associates, 1998b) and DOE-approved procedures. Analytical methods for soil samples are provided in Table 2-3. A summary of sampling and analysis conducted for this project is presented in Table 2-4.

Field sampling documentation is presented in Appendix C. Validated results of soil analyses are summarized in Appendix D and are discussed in Section 3.4.

2.3 Additional Soil Sampling for VOCs

Additional soil sampling was conducted on October 30, 1998 because VOCs were detected at parts-per-billion levels in the surface soil sample from the northeast area, off the pavement (Sampling Location No. 2; see Figure 2-2). The following target VOCs were initially detected: acetone (4.6 µg/kg), 2-butanone (16.7 µg/kg), dibromochloromethane (0.62 µg/kg), 1,1,2-trichloroethane (1.1 µg/kg), 4-methyl-2-pentanone (29.2 µg/kg), 2-hexanone (35.6 µg/kg), 1,1,2,2-tetrachloroethane (2.8 µg/kg), and xylenes (4.8 µg/kg). To confirm that there has been no environmental release from the MWSF, additional soil samples were collected from (1) Sampling Location No. 2 and (2) Sampling Location No. 6, a low area about 3-4' northeast off the pavement not previously sampled (see Figure 2-2). One grab sample at 0-6" depth and one at 18-24" depth were collected from each sample location (MFSS0006 and MFSS0007 from Location No. 2; MFSS0008 and MFSS0009 from Location No. 6; MFWS0003 is a Trip Blank), and analyzed for VOCs by SW-846 Method 8260.

Field sampling documentation is presented in Appendix C. Validated results of the chemical analyses are summarized in Appendix D and are discussed in Section 3.5.

Table 2-3. Soil Sampling and Analyses Protocol, LEHR MWSF

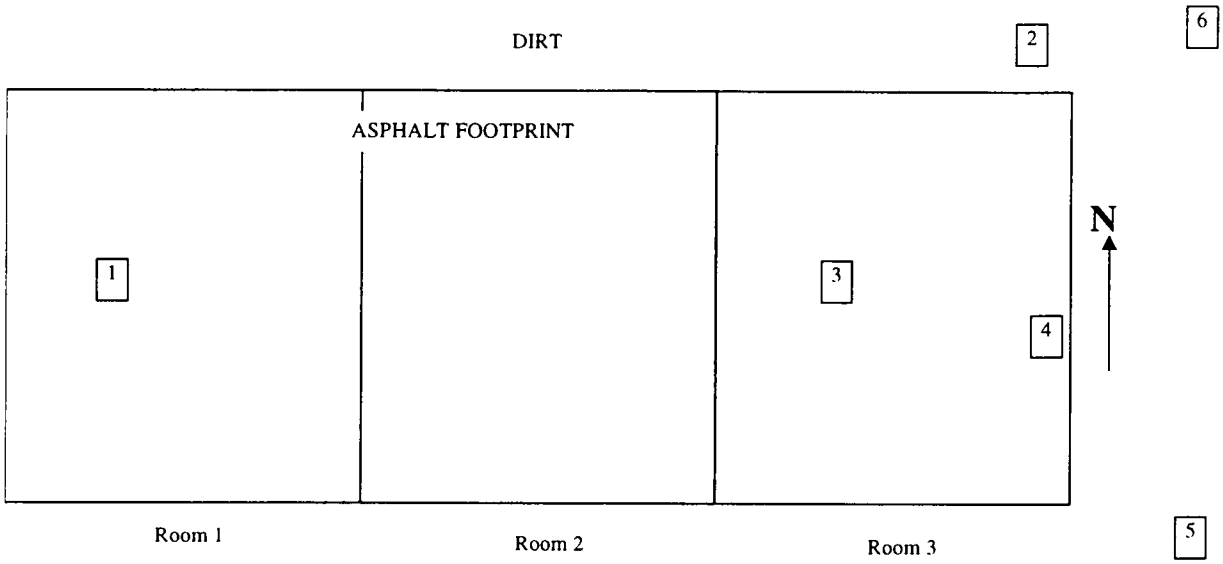
Analytical Parameter	Method	Recommended Containers	Preservative	Max. Holding Time	Min. Volume Required for Analysis	Detection Limit
Americium-241	Lab SOP[2]	1 x 6-in. sample tube	None	180 days after collection	1 x 6-in. sample tube	< 0.1 pCi/g
Carbon-14	Lab SOP					< 50 pCi/g
Gross alpha/beta	EPA 9310					< 5 pCi/g gross alpha < 10 pCi/g gross beta
Gamma emitters	EPA 901.1					see Appendix D
Tritium[1]	EPA 906					5 pCi/g
Plutonium-238, 239/240, 241	Lab SOP					< 10 pCi/g
Radium-226	EPA 903.1(m)					< 1 pCi/g
Strontium-89, 90 and total Strontium	EPA 905					< 1 pCi/g
Volatile organic compounds	EPA 8240	1 x 6-in. sample tube	4°C	14 days	1 x 6-in. sample tube	see Appendix D
Semi-volatile organic compounds	EPA 8270			14 days to extraction, 40 days to analysis		see Appendix D
Formaldehyde	AOAC[3] 20.062			28 days		< 1 mg/Kg

Note:
[1] Tritium is very volatile. Sample containers must be as air tight as possible to eliminate tritium loss
[2] SOP = Standard Operating Procedure
[3] AOAC = Association of Official Analytical Chemists

Table 2-4. Summary of Sampling and Analyses Conducted, LEHR MWSF

Sampling Location	Matrix	Frequency	No. of Samples	Analysis
1. Facility Structure				
a. Wood Floor Covers	Wood	One from each locker	3	Radiological and chemical
b. Secondary Containment Trays	Wipe	One from each locker[1]	3	Chemical only
2. Soil under MWSF	Soil	See Figure 2-2[2]	5	Radiological and chemical

Notes:
[1] One field blank was also collected.
[2] One rinseate blank was also collected.



Sample Location 1	=	Sample I.D. MFSS0001
Sample Location 2	=	Sample I.D. MFSS0002, 0006 (0-6") and 0007 (18-24")
Sample Location 3	=	Sample I.D. MFSS0003
Sample Location 4	=	Sample I.D. MFSS0004
Sample Location 5	=	Sample I.D. MFSS0005
Sample Location 6	=	Sample I.D. MFSS0008 (0-6") and 0009 (18-24")

Figure 2-2. Soil Sampling Locations, LEHR MWSF

3. SUMMARY OF FINDINGS

3.1 Radiological Surface Surveys

After review of the data collected in June 1998, it was determined that no residual activity in excess of guideline values remains. There was only one elevated beta/gamma reading obtained (230 cpm/100 cm^2 for Room 3 East Wall, Survey Point 1A-Ce; background = 92 cpm/100 cm^2); the corresponding activity of 493 dpm/100 cm^2 is below the guideline value of 1000 dpm/100 cm^2 (see Appendix B). Survey results indicate that radiological conditions of the MWSF structure and components satisfy the surface residual radioactivity guidelines for unrestricted use (CA, 1977).

3.2 Radiological and Chemical Sampling and Analysis of Wood Floors

The following target VOCs were detected in the three wood samples collected from the wood floor covers of each storage unit (MFWO0001 through MFWO0003, see Appendices C and D): acetone (433 ug/kg), methylene chloride (6550 ug/kg), 4-methyl-2-pentanone (194 ug/kg), 2-hexanone (395 ug/kg), toluene (73.4 ug/kg), ethylbenzene (1710-3140 ug/kg), styrene (176-544 ug/kg) and xylenes (12300-43300 ug/kg). Naphthalene (5630-7430 ug/kg) was the only target SVOC detected. Formaldehyde was detected at concentrations of 133 mg/kg to 424 mg/kg. Bismuth-212 (0.385 pCi/g), potassium-40 (1.07-3.11 pCi/g) and cesium-137 (0.0755 pCi/g) were the only radionuclides detected.

3.3 Chemical Sampling and Analysis of Secondary Containment

The following target VOCs were detected in the three wipe samples collected from the secondary containment trays of each storage unit (MFWI000 through MFWI0003, see Appendices C and D) and were not detected in the field blank (MFWI0004): bromomethane (149-156 ug), tetrachloroethene (26.4-67.1 ug), toluene (221 ug), ethylbenzene (57.7-298 ug) and xylenes (318-2190 ug). Target SVOCs were not detected. Formaldehyde was detected at concentrations of less than 5 times field blank.

3.4 Initial Soil Sampling and Analysis (May 1998)

The following target VOCs were detected at low concentrations (parts per billion) in the five soil samples collected (MFSS0001 through MFSS0005, see Appendices C and D): acetone (4.6 ug/kg), 2-butanone (16.7 ug/kg), dibromochloromethane (0.62 ug/kg), 1,1,2-trichloroethane (1.1

ug/kg), 4-methyl-2-pentanone (29.2 ug/kg), 2-hexanone (35.6 ug/kg), 1,1,2,2-tetrachloroethane (2.8 ug/kg), ethylbenzene (1.2 ug/kg), and xylenes (4.8-13 ug/kg). Target SVOCs were not detected. Formaldehyde was detected at concentrations of 0.184 to 1.31 mg/kg. Radioisotopes detected at levels above background were: bismuth-212 (0.504 pCi/g; background = 0.43), cesium-137 (0.0639-0.076 pCi/g; 0'-4' background = 0.043), lead-210 (2.24-2.37 pCi/g; background = 1.6), thorium-234 (1 pCi/g; background = 0.78), and uranium-238 (0.754-1 pCi/g; background = 0.65). All of the radioisotope levels detected were less than 2 times the background.

3.5 Additional Soil Sampling for VOCs (October 1998)

Chloroform was detected in MFSS0007 (from Location No. 2 at 18-24" depth) at the trace quantity of 0.6 ug/kg, below the reporting limit of 5.4 ug/kg (see Appendices C and D; Chloroform was not detected in May 1998 surface samples above levels in laboratory blanks). VOCs were not detected in the other samples collected (MFSS0006, 0008 and 0009).

4. REFERENCES

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APPENDIX A

RADIOLOGICAL SURFACE SURVEY RESULTS
(March 1998)

INTERNATIONAL TECHNOLOGY CORPORATION

4585 Pacheco Boulevard
Martinez, California 94553-2233
510-372-9100
Fax: 510-372-5220

TO: Larry Jinkins, WA

March 3, 1998

FROM: Dave Ochs, IT

SUBJECT: Relocation of the LEHR *MWSF*

The following is a summary of activities performed by IT in support of the decommissioning process of the MWSF for steps conducted the morning of March 3, 1998.

- Performed radiological scan for total Beta/Gamma contamination of accessible surfaces on the under-side of the building prior to movement.
- Performed radiological survey for loose surface contamination of accessible surfaces on the under-side of the building. All smear results were less than MDA.
- Performed radiological survey for total and loose contamination within the building "foot print". Readings slightly greater than background were noted along the eastern edge of the footprint. Sampling will be required to determine whether the source is sub-surface or surface in nature. There is no detectable loose contamination present in this area.
- IT personnel took photographs of the footprint area before and after relocation of the building.
- All lifting and rigging operations were carried out entirely by UC Davis staff.
- Please find attached, copies of the radiological surveys.
- The film is being processed today, for the photographs taken . Prints will be forwarded as soon as I get them.
- The only visible signs of stains in the footprint area are in the spots where the building footings were in contact with the pavement. These stains are a rust color.

Should you have any questions concerning this matter please call me at (530) 752 - 2916.

cc: William Schaal, IT (w/out att.)
Dolores Loll, WA (w/out att.)
Dawn Mitchell, EMS (w/out att.)

LEHR RADIOLOGICAL SURVEY RECORD

UCD/LEHR Project 17523

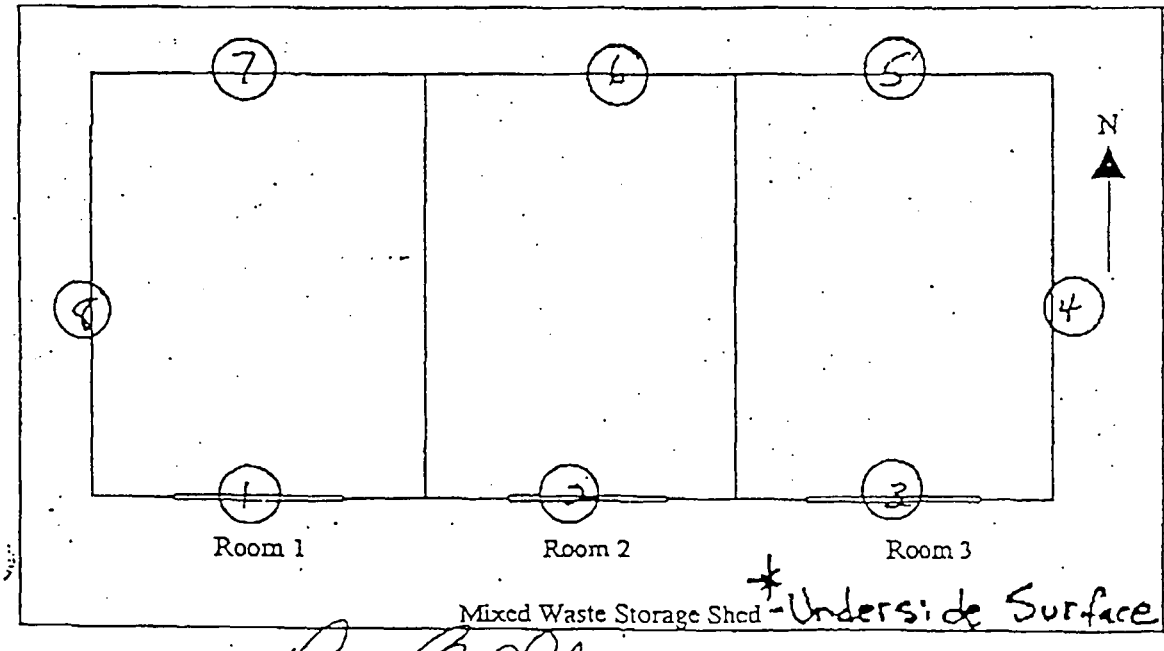
Survey Number: 030398-001	Survey Location: Mixed Waste Storage Shed
Surveyor: D. Brown / [illegible]	Job Scope: LIFT & MOVE MWSS. Survey ~~Monthly Building Survey~~ UNDERSIDE
Date: 3-3-98	
Time: 1000 -	

Instrument Data

Model #	Serial #	Probe #	Calib Due	Bkg	Eff	CF	MDA	Source Check
Ludlum 2929 α	126145	PR 129045	2-5-99	0	0.25	4	11	2895
Ludlum 2929 β/γ	126145	PR 129045	2-9-99	41	0.38	2.6	84	3370
~~Bicron~~	~~A919N~~	~~n/a~~	—	—	~~n/a~~	~~n/a~~	~~n/a~~	—
L-3	94570	495	8-17-98	40	0.30	3.3	N/A	2700/2660

Survey Results

#	Location or Description	Alpha Equiv. Removable dpm/100 cm²	Alpha Equiv. Direct dpm/100 cm²	Beta-Gamma Equiv. Removable dpm/100 cm²	Beta-Gamma Equiv. Direct dpm/100 cm²	Radiation Level mR/hr	Comments
1	SEE MAP	0	N/A	26	NOA/BKG	N/A	SEE MAP
2		0		0			
3		4		0			
4		0		0			
5		0		11			
6		4		8			
7		0		0			
8		0		16			



Notes: DIRECT FASKOT ACCESSIBLE AREAS ON UNDERSIDE OF SHED INDICATE NO DETECTABLE ACTIVITY ABOVE BKGD/PWSB AREA.

- Wipe locations are circled.
- Direct scans are in squares.
- Radiation levels are in mR/hr and at 1 meter height unless noted.
- Contact radiation levels are underlined.
- Area radiation levels are shown without identifier.

Reviewed by: [signature] Date: 03Mar 98

Rev 2/4/97

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LEHR RADIOLOGICAL SURVEY RECORD

UCD/LEHR Project 17523

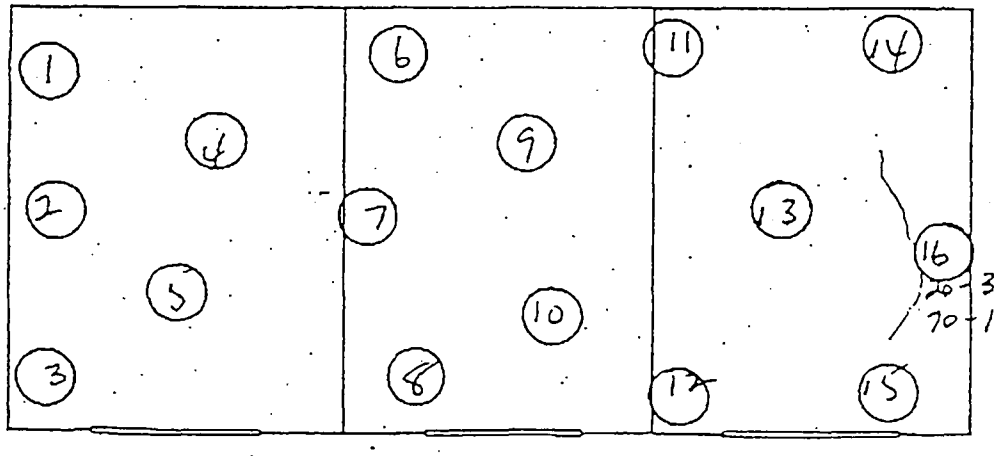
Survey Number: 030398-001	Survey Location: Mixed Waste Storage Shed
Surveyor: D. Brown / [illegible]	Job Scope: Survey "Foot Print" post removal of ~~Monthly Building Survey~~ MWSS.
Date: 3-3-98	
Time: 1022	

Instrument Data

Model #	Serial #	Probe #	Calib Due	Bkg	Eff	CF	MDA	Source Check
Ludlum 2929 α	126145	PR 129045	2-5-99	0	0.25	4	11	2855
Ludlum 2929 β/γ	126145	PR 129045	2-5-99	41	0.38	2.6	84	3320
~~Bicron~~	~~A919N~~	~~n/a~~		—	~~n/a~~	~~n/a~~	~~n/a~~	—
L-3	98570	485	8-17-98	40	0.30	3.3	N/A	2600

Survey Results

#	Location or Description	Alpha Equiv. Removable dpm/100 cm²	Alpha Equiv. Direct dpm/100 cm²	Beta-Gamma Equiv. Removable dpm/100 cm²	Beta-Gamma Equiv. Direct dpm/100 cm²	Radiation Level mR/hr	Comments
1	ASPHALT "FOOT PRINT"	0	N/A	0	NDA/BKG	N/A	SEE MAP
2		4		13			
3		0		29			
4		0		0			
5		0		8			
6		8		11			
7		4		3			
8		0		39			
9		0		0			
10		0		26			
11		0		0			
12		0		13			
13		0		8			
14		0		0			
15		4		8			
16		0		21	70-100		



Mixed Waste Storage Shed – "Foot Print"

Notes: Direct Reading of "Foot Print" Area indicates no detectable activity above BKG/Probe Area, except in area as indicated.

BKG/Probe Area = Probe Area via Direct Reading

- Wipe locations are circled.
- Direct scans are in squares.
- Radiation levels are in mR/hr and at 1 meter height unless noted.
- Contact radiation levels are underlined.
- Area radiation levels are shown without identifier.

Reviewed by: [signature]

Date: 03 Mar 98

APPENDIX B

RADIOLOGICAL SURFACE SURVEY RESULTS
(June 1998)

Appendix D to Part 835--Surface Radioactivity Values

Surface Radioactivity Values; <SUP>1 in dpm/100 cm <SUP>2

Nuclide	Removable <SUP>2, <SUP>4	Total (Fixed + Removable) <SUP
U-nat, U-235, U-238, and associated decay products.....	1,000	5,000
Transuranics, Ra-226, Ra-228, Th-230, Th-228, Pa-231, Ac-227, I-125, I-129..	20	500
Th-nat, Th-232, Sr-90, Ra-223, Ra-224, U-232, I-126, I-131, I-133.....	200	1,000
Beta-gamma emitters (nuclides with decay modes other than alpha emission or spontaneous fission) except Sr-90 and others noted above.<SUP>5.....	1,000	5,000
Tritium Organic Compounds; surfaces contaminated by HT, HTO, and metal tritide aerosols.....	[Reserved]	[Reserved]

<SUP>1 The values in this appendix apply to radioactive contamination deposited on, but not incorporated into the interior of, the contaminated item. Where surface contamination by both alpha- and beta-gamma-emitting nuclides exists, the limits established for alpha- and beta-gamma-emitting nuclides should apply independently.

<SUP>2 As used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

<SUP>3 The levels may be averaged over one square meter provided the maximum surface activity in any area of 100 cm <SUP>2 is less than three times the value specified. For purposes of averaging, any square meter of surface shall be considered to be above the activity guide G if: (1) From measurements of a representative number n of sections it is determined that 1/n <greek-S> <INF>n S <INF>i G, where S <INF>i is the dpm/100 determined from measurement of section i; or (2) it is determined that the sum of the activity of all isolated spots or particles in any 100 cm <SUP>2 area exceeds 3G.

<SUP>4 The amount of removable radioactive material per 100 cm <SUP>2 of surface area should be determined by swiping the area with dry filter or soft absorbent paper, applying moderate pressure, and then assessing the amount of radioactive material on the swipe with an appropriate instrument of known efficiency. (Note--The use of dry material may not be appropriate for tritium.) When removable contamination on objects of surface area less than 100 cm <SUP>2 is determined, the activity per unit area should be based on the actual area and the entire surface should be wiped. Except for transuranics and Ra-228, Ac-227, Th-228, Th-230, Pa-231 and alpha emitters, it is not necessary to use swiping techniques to measure removable contamination levels if direct scan surveys indicate that the total residual surface contamination levels are within the limits for removable contamination.

<SUP>5 This category of radionuclides includes mixed fission products, including the Sr-90 which is present in them. It does not apply to Sr-90 which has been separated from the other fission products or mixtures where the Sr-90 has been enriched.

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Appendix E to Part 835--[Reserved]

INTERNATIONAL TECHNOLOGY CORPORATION

4585 Pacheco Boulevard
Martinez, California 94553-2233
510-372-9100
Fax: 510-372-5220

June 11, 1998

To: Santiago Lee
From: LEHR IT Corporation Health Physics Group

RE: Mixed Waste Storage Facility Free Release Survey Results

Mr. Lee;

Attached you will find the results of the free release survey performed on the Mixed Waste Storage Facility. All surveys were performed in accordance with the Final Sampling Plan for the Mixed Waste Storage Facility (April 30, 1998 Rev.0).

After review of all data collected, it was determined that no residual activity in excess of guideline values remains. The attachment titled Surface Activity Measurements provides uncertainty values for all fixed and loose surface contamination values (except for tritium and carbon-14). Uncertainty values were calculated using the following equation:

$$\frac{\text{95\% Confidence Value} * \sqrt{\text{Instrument Background + Gross Counts Per Minute}}}{\text{Instrument Efficiency}}$$

95% Confidence Value - Value found in Table B-1 of NUREG/CR 5849
Instrument Background - 1 minute static count collected at the survey location
Gross Counts Per Minute - 1 minute static count collected on the surface of the area being surveyed
Instrument Efficiency - Relationship of the observed net instrument response to a known source activity

COPY

IT Corporation

RADIOLOGICAL SURVEY FORM

Survey Number: 060998004

Survey Description	FREE RELEASE SURVEY OF MWSF ROOM 3. UNAFFECTED AREA SURVEY OF EXTERIOR OF MWSF.
Drawing Attached	(Yes) No

Instrument (1)		
Instrument Model:	2929	
Instrument Ser. #:	126145	
Calibration Due:	2.9.99	
Efficiency:	A- 0.25	B- 0.38
MDA: A- 11 dpm/100cm²	CF: A- 4	BKG: A- 0
MDA: B- 84 dpm/100cm²	CF: B- 2.6	BKG: B- 35

Instrument (2)		
Instrument Model:	19	
Instrument Ser. #:	144785	
Calibration Due:	5.7.99	
Efficiency:	A- N/A	B- N/A
MDA: A- N/A	CF: A- N/A	BKG: A- N/A
MDA: B- N/A	CF: B- N/A	BKG: B- 4

Survey Date	6.9.98	
Survey by	[signature]	6.9.98
	Signature	Date
Print Name	Dan Williams / Doug Brown	
Review By	[signature]	6-10-98
	Signature	Date

Instrument (3)		
Instrument Model:	2221	
Instrument Ser. #:	97826	
Calibration Due:	11.18.98	
Efficiency:	0.18	
MDA: 692 dpm/100cm²	CF: 565	BKG: 2

Instrument (4)		
Instrument Model:	2221	
Instrument Ser. #:	117370	
Calibration Due:	11.18.98	
Efficiency:	0.28	
MDA: 189.12 dpm/100cm²	CF: 3.55	BKG: 92

Survey Point	Smearable Contamination beta/gamma dpm/100cm^2	Smearable Contamination alpha dpm/100cm^2	Fixed Contamination beta/gamma cpm/100cm^2	Fixed Contamination alpha cpm/100cm^2	Radiation Level (uR/Hr)	Instrument Used	Additional Comments
SEE ATTACHED SHEETS							100% SCAN OF ALL AFFECTED AREAS FOR ALPHA AND BETA-GAMMA CONTAMINATION. 5-1 MINUTE STATIC COUNTS WERE PERFORMED IN EACH GRID. ONE SMEAR WAS COLLECTED PER GRID FOR H3-C14 AND GROSS ALPHA AND BETA-GAMMA CONTAMINATION. ONE RADIATION LEVEL READING WAS COLLECTED PER GRID.
							UNAFFECTED AREA - SAME AS ABOVE EXCEPT - 1-1 MINUTE STATIC COUNT PER LOCATION.

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pg. 2 of. 15

Mixed Waste Storage Facilty Room 3
Interior - Affected Area & Unaffected Areas
Survey Number - 060998004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
East Wall	1A-A	104	9	92	2	0.28	0.18	43	39	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-B	97	2	92	2	0.28	0.18	18	0	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-C	88	6	92	2	0.28	0.18	-14	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-D	120	5	92	2	0.28	0.18	100	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-Ce	230	8	92	2	0.28	0.18	493	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-A	89	4	92	2	0.28	0.18	-11	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-B	96	6	92	2	0.28	0.18	14	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-C	99	7	92	2	0.28	0.18	25	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-D	103	9	92	2	0.28	0.18	39	39	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-Ce	110	6	92	2	0.28	0.18	64	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-A	99	6	92	2	0.28	0.18	25	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-B	93	7	92	2	0.28	0.18	4	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-C	90	8	92	2	0.28	0.18	-7	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-D	106	10	92	2	0.28	0.18	50	44	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-Ce	98	5	92	2	0.28	0.18	21	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-A	110	6	92	2	0.28	0.18	64	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-B	103	6	92	2	0.28	0.18	39	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-C	89	7	92	2	0.28	0.18	-11	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-D	96	8	92	2	0.28	0.18	14	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-Ce	97	8	92	2	0.28	0.18	18	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-A	104	6	92	2	0.28	0.18	43	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-B	107	11	92	2	0.28	0.18	54	50	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-C	92	10	92	2	0.28	0.18	0	44	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-D	103	7	92	2	0.28	0.18	39	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-Ce	100	9	92	2	0.28	0.18	29	39	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-A	98	8	92	2	0.28	0.18	21	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-B	103	5	92	2	0.28	0.18	39	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-C	104	7	92	2	0.28	0.18	43	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-D	105	5	92	2	0.28	0.18	46	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-Ce	99	4	92	2	0.28	0.18	25	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785

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Mixed Waste Storage Facilty Room 3
Interior - Affected Area & Unaffected Areas
Survey Number - 060998004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
South Wa	1A-A	103	4	92	2	0.28	0.18	39	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-B	101	9	92	2	0.28	0.18	32	39	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-C	96	8	92	2	0.28	0.18	14	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-D	93	6	92	2	0.28	0.18	4	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-Ce	100	7	92	2	0.28	0.18	29	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-A	103	5	92	2	0.28	0.18	39	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-B	99	5	92	2	0.28	0.18	25	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-C	109	2	92	2	0.28	0.18	61	0	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-D	114	3	92	2	0.28	0.18	79	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-Ce	88	4	92	2	0.28	0.18	-14	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-A	102	4	92	2	0.28	0.18	36	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-B	100	4	92	2	0.28	0.18	29	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-C	105	5	92	2	0.28	0.18	46	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-D	110	6	92	2	0.28	0.18	64	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-Ce	115	7	92	2	0.28	0.18	82	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-A	87	7	92	2	0.28	0.18	-18	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-B	97	7	92	2	0.28	0.18	18	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-C	94	8	92	2	0.28	0.18	7	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-D	99	9	92	2	0.28	0.18	25	39	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-Ce	103	9	92	2	0.28	0.18	39	39	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-A	126	10	92	2	0.28	0.18	121	44	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-B	115	10	92	2	0.28	0.18	82	44	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-C	108	11	92	2	0.28	0.18	57	50	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-D	119	12	92	2	0.28	0.18	96	56	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-Ce	103	10	92	2	0.28	0.18	39	44	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-A	101	8	92	2	0.28	0.18	[illegible]	[illegible]	[illegible] 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-B	98	7	92	2	0.28	0.18	21	28	[illegible]el 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-C	96	7	92	2	0.28	0.18	14	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-D	102	6	92	2	0.28	0.18	36	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-Ce	100	6	92	2	0.28	0.18	29	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 3
Interior - Affected Area & Unaffected Areas
Survey Number - 060998004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
West Wa	1A-A	118	5	92	2	0.28	0.18	93	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-B	132	6	92	2	0.28	0.18	143	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-C	107	7	92	2	0.28	0.18	54	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-D	115	7	92	2	0.28	0.18	82	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-Ce	103	4	92	2	0.28	0.18	39	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-A	99	3	92	2	0.28	0.18	25	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-B	102	4	92	2	0.28	0.18	36	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-C	101	5	92	2	0.28	0.18	32	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-D	98	6	92	2	0.28	0.18	21	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-Ce	87	7	92	2	0.28	0.18	-18	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-A	112	7	92	2	0.28	0.18	71	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-B	105	8	92	2	0.28	0.18	46	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-C	114	8	92	2	0.28	0.18	79	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-D	111	8	92	2	0.28	0.18	68	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-Ce	108	8	92	2	0.28	0.18	57	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-A	94	7	92	2	0.28	0.18	7	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-B	93	6	92	2	0.28	0.18	4	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-C	106	6	92	2	0.28	0.18	50	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-D	112	6	92	2	0.28	0.18	71	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-Ce	118	6	92	2	0.28	0.18	93	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-A	121	5	92	2	0.28	0.18	104	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-B	112	3	92	2	0.28	0.18	71	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-C	87	3	92	2	0.28	0.18	-18	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-D	103	2	92	2	0.28	0.18	39	0	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-Ce	94	2	92	2	0.28	0.18	7	0	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-A	98	3	92	2	0.28	0.18	21	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-B	97	5	92	2	0.28	0.18	18	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-C	107	7	92	2	0.28	0.18	54	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-D	104	7	92	2	0.28	[illegible]	[illegible]	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-Ce	110	6	92	2	0.28	[illegible]	[illegible]	[illegible]	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 3
Interior - Affected Area & Unaffected Areas
Survey Number - 060998004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
North Wa	1A-A	106	6	92	2	0.28	0.18	50	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-B	98	5	92	2	0.28	0.18	21	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-C	101	10	92	2	0.28	0.18	32	44	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-D	110	9	92	2	0.28	0.18	64	39	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-Ce	108	5	92	2	0.28	0.18	57	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-A	97	11	92	2	0.28	0.18	18	50	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-B	89	9	92	2	0.28	0.18	-11	39	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-C	91	7	92	2	0.28	0.18	-4	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-D	99	6	92	2	0.28	0.18	25	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-Ce	106	6	92	2	0.28	0.18	50	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-A	112	6	92	2	0.28	0.18	71	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-B	105	5	92	2	0.28	0.18	46	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-C	95	5	92	2	0.28	0.18	11	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-D	93	5	92	2	0.28	0.18	4	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-Ce	97	5	92	2	0.28	0.18	18	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-A	107	5	92	2	0.28	0.18	54	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-B	113	5	92	2	0.28	0.18	75	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-C	104	3	92	2	0.28	0.18	43	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-D	111	2	92	2	0.28	0.18	68	0	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-Ce	87	10	92	2	0.28	0.18	-18	44	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-A	106	9	92	2	0.28	0.18	50	39	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-B	114	8	92	2	0.28	0.18	79	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-C	95	8	92	2	0.28	0.18	11	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-D	94	6	92	2	0.28	0.18	7	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-Ce	108	5	92	2	0.28	0.18	57	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-A	116	5	92	2	0.28	0.18	86	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-B	121	4	92	2	0.28	0.18	104	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-C	108	4	92	2	0.28	0.18	5[illegible]	[illegible]	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-D	98	5	92	2	0.28	0.18	21	[illegible]	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-Ce	103	5	92	2	0.28	0.18	39	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 3
Interior - Affected Area & Unaffected Areas
Survey Number - 060998004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
Ceiling	B1	138	6	92	2	0.28	0.18	164	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	B2	118	6	92	2	0.28	0.18	93	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	B3	102	6	92	2	0.28	0.18	36	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
Floor	1A-A	114	7	92	2	0.28	0.18	79	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-B	99	8	92	2	0.28	0.18	25	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-C	102	1	92	2	0.28	0.18	36	-6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-D	108	1	92	2	0.28	0.18	57	-6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1A-Ce	95	2	92	2	0.28	0.18	11	0	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-A	99	3	92	2	0.28	0.18	25	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-B	107	6	92	2	0.28	0.18	54	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-C	110	7	92	2	0.28	0.18	64	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-D	116	6	92	2	0.28	0.18	86	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1B-Ce	123	5	92	2	0.28	0.18	111	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1C-A	101	4	92	2	0.28	0.18	32	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1C-B	100	3	92	2	0.28	0.18	29	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1C-C	106	3	92	2	0.28	0.18	50	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1C-D	103	3	92	2	0.28	0.18	39	6	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	1C-Ce	118	4	92	2	0.28	0.18	93	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-A	111	4	92	2	0.28	0.18	68	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-B	121	5	92	2	0.28	0.18	104	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-C	109	5	92	2	0.28	0.18	61	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-D	117	6	92	2	0.28	0.18	89	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2A-Ce	105	6	92	2	0.28	0.18	46	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-A	103	6	92	2	0.28	0.18	39	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-B	111	6	92	2	0.28	0.18	68	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-C	104	7	92	2	0.28	0.18	43	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-D	94	7	92	2	0.28	0.18	7	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2B-Ce	97	6	92	2	0.28	0.18	18	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2C-A	91	6	92	2	0.28	0.18	-4	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2C-B	109	7	92	2	0.28	0.18	61	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 3
Interior - Affected Area & Unaffected Areas
Survey Number - 060998004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	2C-C	104	7	92	2	0.28	0.18	43	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2C-D	106	7	92	2	0.28	0.18	50	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	2C-Ce	108	2	92	2	0.28	0.18	57	0	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-A	110	6	92	2	0.28	0.18	64	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-B	119	6	92	2	0.28	0.18	96	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-C	104	5	92	2	0.28	0.18	43	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-D	97	5	92	2	0.28	0.18	18	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3A-Ce	108	4	92	2	0.28	0.18	57	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-A	116	4	92	2	0.28	0.18	86	11	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-B	122	2	92	2	0.28	0.18	107	0	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-C	108	2	92	2	0.28	0.18	57	0	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-D	115	6	92	2	0.28	0.18	82	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3B-Ce	103	6	92	2	0.28	0.18	39	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3C-A	100	6	92	2	0.28	0.18	29	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3C-B	108	6	92	2	0.28	0.18	57	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3C-C	109	7	92	2	0.28	0.18	61	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3C-D	113	8	92	2	0.28	0.18	75	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
	3C-Ce	93	8	92	2	0.28	0.18	4	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 3
Interior - Affected Area & Unaffected Areas
Survey Number - 060998004

		Loose Contamination		Background		Efficiency		Activity		
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used
East Wall	1A-A	53	0	35	0	0.38	0.25	47	0	Model 2929 SN 126145
	2A-A	25	0	35	0	0.38	0.25	-26	0	Model 2929 SN 126145
	1B-A	45	0	35	0	0.38	0.25	26	0	Model 2929 SN 126145
	2B-A	26	0	35	0	0.38	0.25	-24	0	Model 2929 SN 126145
	3A-A	43	0	35	0	0.38	0.25	21	0	Model 2929 SN 126145
	3B-A	39	0	35	0	0.38	0.25	11	0	Model 2929 SN 126145
South Wal	1A-A	49	0	35	0	0.38	0.25	37	0	Model 2929 SN 126145
	1B-A	23	0	35	0	0.38	0.25	-32	0	Model 2929 SN 126145
	2B-A	31	0	35	0	0.38	0.25	-11	0	Model 2929 SN 126145
	3A-A	39	0	35	0	0.38	0.25	11	0	Model 2929 SN 126145
	3B-A	45	1	35	0	0.38	0.25	26	4	Model 2929 SN 126145
West Wall	1A-A	39	0	35	0	0.38	0.25	11	0	Model 2929 SN 126145
	2A-A	36	0	35	0	0.38	0.25	3	0	Model 2929 SN 126145
	1B-A	35	0	35	0	0.38	0.25	0	0	Model 2929 SN 126145
	2B-A	36	0	35	0	0.38	0.25	3	0	Model 2929 SN 126145
	3A-A	46	0	35	0	0.38	0.25	29	0	Model 2929 SN 126145
	3B-A	49	0	35	0	0.38	0.25	37	0	Model 2929 SN 126145
North Wall	1A-A	45	0	35	0	0.38	0.25	26	0	Model 2929 SN 126145
	2A-A	30	0	35	0	0.38	0.25	-13	0	Model 2929 SN 126145
	1B-A	34	0	35	0	0.38	0.25	-3	0	Model 2929 SN 126145

COPY

Mixed Waste Storage Facilty Room 3
Interior - Affected Area & Unaffected Areas
Survey Number - 060998004

		Loose Contamination		Background		Efficiency		Activity		
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used
	2B-A	36	0	35	0	0.38	0.25	3	0	Model 2929 SN 126145
	3A-A	38	1	35	0	0.38	0.25	8	4	Model 2929 SN 126145
	3B-A	40	0	35	0	0.38	0.25	13	0	Model 2929 SN 126145
Ceiling	25	40	0	35	0	0.38	0.25	13	0	Model 2929 SN 126145
	26	35	1	35	0	0.38	0.25	0	4	Model 2929 SN 126145
	27	26	0	35	0	0.38	0.25	-24	0	Model 2929 SN 126145
Floor	1A-A	29	0	35	0	0.38	0.25	-16	0	Model 2929 SN 126145
	1B-A	36	0	35	0	0.38	0.25	3	0	Model 2929 SN 126145
	1C-A	37	1	35	0	0.38	0.25	5	4	Model 2929 SN 126145
	2A-A	38	0	35	0	0.38	0.25	8	0	Model 2929 SN 126145
	2B-A	36	0	35	0	0.38	0.25	3	0	Model 2929 SN 126145
	2C-A	41	0	35	0	0.38	0.25	16	0	Model 2929 SN 126145
	3A-A	40	1	35	0	0.38	0.25	13	4	Model 2929 SN 126145
	3B-A	35	0	35	0	0.38	0.25	0	0	Model 2929 SN 126145
	3C-A	36	0	35	0	0.38	0.25	3	0	Model 2929 SN 126145

COPY

Protocol #:22 Name:UCD Wipe Test 09-Jun-98 09:38 page 10 of 1

Region A: LL-UL= 0.0-50.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=50.0-250. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 5.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 254595 Nuclide 2 = 122000
Warning: User program changes may have invalidated DPM calculation
Save Data Filename = SDATA22.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	5.00	47.20	10.20	71.00	119.49	7.12	48.896	404.	
2	5.00	71.80	10.20	96.00	174.72	4.25	33.753	434.	
3	5.00	69.60	7.60	91.20	172.88	1.26	26.225	424.	
4	5.00	53.80	9.80	77.60	130.32	5.85	39.605	433.	
5	5.00	60.40	9.20	82.40	149.67	4.32	34.662	421.	
6	5.00	51.80	8.60	75.00	130.95	4.59	35.471	409.	
7	5.00	63.60	8.40	88.20	157.30	2.96	30.973	424.	
8	5.00	56.20	7.20	79.00	138.22	2.34	29.029	428.	
9	5.00	53.60	8.40	76.60	132.08	4.13	37.544	424.	
10	5.00	30.00	8.40	51.20	88.01	6.95	48.478	331.	
11	5.00	41.40	8.60	64.20	102.87	5.81	42.694	415.	
12	5.00	54.40	8.80	78.00	132.55	4.54	36.678	431.	
13	5.00	56.20	9.00	79.40	141.99	4.57	36.473	410.	
14	5.00	53.40	8.00	75.20	131.45	3.66	35.411	426.	
15	5.00	48.40	10.80	74.60	122.85	7.72	43.241	402.	
16	5.00	44.40	9.20	68.60	108.52	6.19	40.494	425.	
17	5.00	48.20	10.20	70.20	118.14	6.99	45.170	423.	
18	5.00	48.20	9.80	72.60	122.54	6.51	41.568	402.	
19	5.00	53.80	11.80	78.40	136.56	8.33	43.518	402.	
20	5.00	34.60	11.20	57.40	85.97	9.84	61.368	405.	
21	5.00	29.00	8.80	49.60	73.47	7.53	50.545	396.	
22	5.00	38.60	9.20	61.20	98.42	6.89	48.635	398.	
23	5.00	46.40	5.40	68.00	120.29	1.25	28.503	399.	
24	5.00	41.80	11.00	64.60	100.61	8.73	47.145	429.	
25	5.00	34.00	9.80	58.40	83.65	8.16	56.930	413.	
26	5.00	32.40	9.40	56.00	77.33	7.84	59.346	432.	
27	5.00	31.00	8.40	52.60	76.87	6.78	51.102	410.	
28	5.00	52.20	8.40	76.20	179.21	3.91	26.576	282.	
29	5.00	43.60	9.20	66.40	126.42	6.32	40.326	341.	
30	5.00	42.20	10.20	65.80	138.55	7.59	40.560	292.	
31	5.00	14.20	10.40	36.00	60.99	11.35	61.266	212.	
32	5.00	31.40	9.80	56.20	115.20	8.18	47.030	259.	
33	5.00	39.60	9.40	63.20	126.08	6.96	37.523	303.	
34	5.00	28.20	7.60	48.00	95.12	6.04	41.000	282.	
35	5.00	28.20	11.00	54.00	104.16	10.13	52.714	255.	
36	5.00	31.20	11.00	55.00	101.13	10.03	49.993	291.	

COPY

Mixed Waste Storage Facilty
Exterior - Unaffected Areas
Survey Number - 060998004

	Fixed Contamination		Background		Efficiency		Activity					
Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
1	124	5	92	2	0.28	0.18	114	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
2	128	8	92	2	0.28	0.18	129	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
3	143	12	92	2	0.28	0.18	182	56	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
4	104	10	92	2	0.28	0.18	43	44	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
5	116	13	92	2	0.28	0.18	86	61	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
6	104	12	92	2	0.28	0.18	43	56	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
7	97	11	92	2	0.28	0.18	18	50	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
8	110	6	92	2	0.28	0.18	64	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
9	107	7	92	2	0.28	0.18	54	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
10	96	5	92	2	0.28	0.18	14	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
11	105	5	92	2	0.28	0.18	46	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
12	106	8	92	2	0.28	0.18	50	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
13	84	6	92	2	0.28	0.18	-29	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
14	113	6	92	2	0.28	0.18	75	22	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
15	106	7	92	2	0.28	0.18	50	28	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
16	104	11	92	2	0.28	0.18	43	50	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
17	125	8	92	2	0.28	0.18	118	33	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
18	93	5	92	2	0.28	0.18	4	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
19	114	5	92	2	0.28	0.18	79	17	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
20	128	11	92	2	0.28	0.18	129	50	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785
21	120	13	92	2	0.28	0.18	100	61	Model 2221 SN 97826/117370	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty
Exterior - Unaffected Areas
Survey Number - 060998004

	Loose Contamination		Background		Efficiency		Activity		
Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used
1	45	0	35	0	0.38	0.25	26	0	Model 2929 SN 126145
2	41	0	35	0	0.38	0.25	16	0	Model 2929 SN 126145
3	42	0	35	0	0.38	0.25	18	0	Model 2929 SN 126145
4	48	0	35	0	0.38	0.25	34	0	Model 2929 SN 126145
5	47	0	35	0	0.38	0.25	32	0	Model 2929 SN 126145
6	39	1	35	0	0.38	0.25	11	4	Model 2929 SN 126145
7	35	0	35	0	0.38	0.25	0	0	Model 2929 SN 126145
8	34	1	35	0	0.38	0.25	-3	4	Model 2929 SN 126145
9	36	0	35	0	0.38	0.25	3	0	Model 2929 SN 126145
10	28	1	35	0	0.38	0.25	-18	4	Model 2929 SN 126145
11	24	0	35	0	0.38	0.25	-29	0	Model 2929 SN 126145
12	29	2	35	0	0.38	0.25	-16	8	Model 2929 SN 126145
13	26	0	35	0	0.38	0.25	-24	0	Model 2929 SN 126145
14	35	0	35	0	0.38	0.25	0	0	Model 2929 SN 126145
15	38	0	35	0	0.38	0.25	8	0	Model 2929 SN 126145
16	51	1	35	0	0.38	0.25	42	4	Model 2929 SN 126145
17	35	0	35	0	0.38	0.25	0	0	Model 2929 SN 126145
18	35	2	35	0	0.38	0.25	0	8	Model 2929 SN 126145
19	36	1	35	0	0.38	0.25	3	4	Model 2929 SN 126145
20	36	0	35	0	0.38	0.25	3	0	Model 2929 SN 126145
21	37	0	35	0	0.38	0.25	5	0	Model 2929 SN 126145

COPY

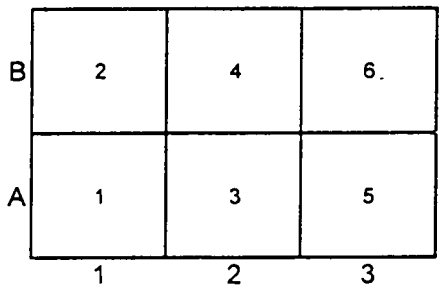
Protocol #:22 Name:UCD Wipe Test 09-Jun-98 13:06

Region A: LL-UL= 0.0-50.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=50.0-250. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 5.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 254595 Nuclide 2 = 122000
Warning: User program changes may have invalidated DPM calculation
Save Data Filename = SDATA22.DAT

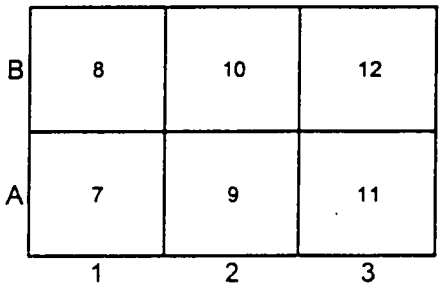
S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	5.00	32.20	11.20	58.60	81.82	10.14	57.654	391.	
2	5.00	22.60	9.00	45.80	56.93	8.54	58.379	391.	
3	5.00	54.20	9.60	75.80	137.33	5.55	41.004	406.	
4	5.00	47.00	11.40	70.80	127.04	8.67	41.635	369.	
5	5.00	29.80	7.60	53.00	76.66	5.94	50.527	392.	
6	5.00	42.20	7.60	66.00	124.60	4.46	31.552	335.	
7	5.00	28.80	11.00	55.40	72.98	10.30	60.183	389.	
8	5.00	26.80	8.00	51.20	74.25	6.83	52.863	354.	
9	5.00	37.80	6.40	56.40	100.61	3.51	39.536	382.	
10	5.00	21.80	10.00	44.60	53.53	9.86	78.988	399.	
11	5.00	31.00	7.60	53.00	86.16	5.82	48.401	356.	
12	5.00	36.60	7.40	57.40	94.16	4.89	41.304	396.	
13	5.00	36.40	9.40	59.00	91.52	7.39	49.331	404.	
14	5.00	43.80	9.40	68.20	121.78	6.55	45.025	358.	
15	5.00	40.60	8.20	63.00	106.24	5.42	42.292	387.	
16	5.00	46.80	9.00	70.60	136.57	5.68	34.625	339.	
17	5.00	44.80	6.60	66.40	114.21	2.93	32.459	406.	
18	5.00	56.40	10.40	80.40	143.82	6.29	39.138	402.	
19	5.00	67.80	8.00	92.80	173.14	1.97	27.583	407.	
20	5.00	33.60	7.80	55.80	92.81	5.76	42.560	360.	
21	5.00	37.60	8.40	61.80	98.61	6.02	43.692	385.	

COPY

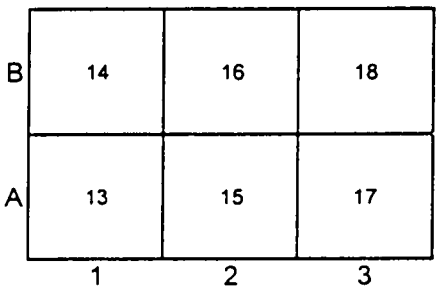
Mixed Waste Storage Facility Room 3



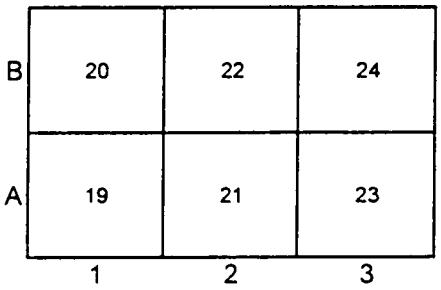
East Wall



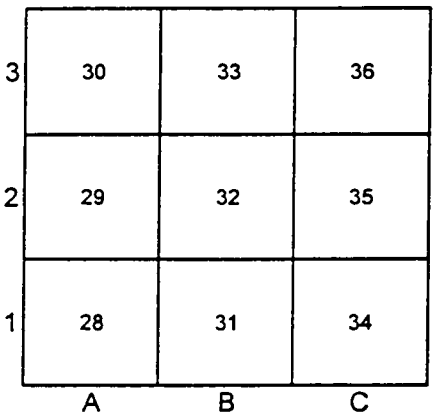
South Wall



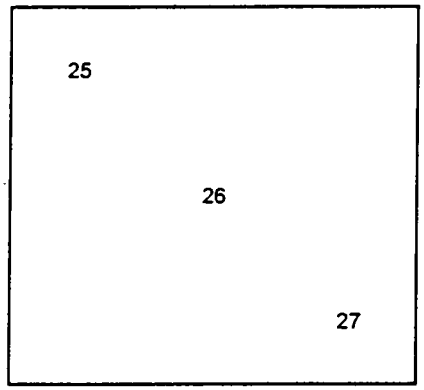
West Wall



North Wall



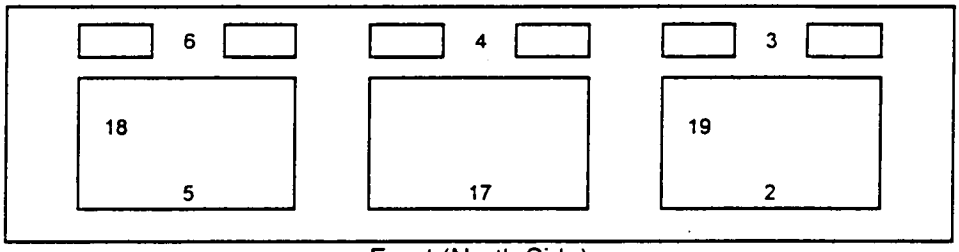
Floor



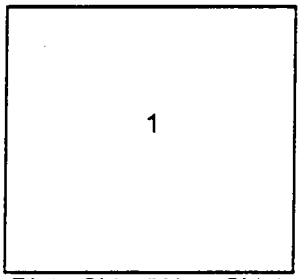
Ceiling

COPY

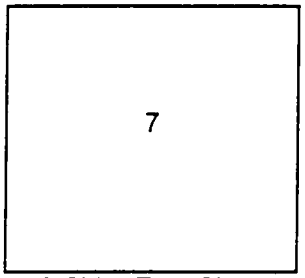
Mixed Waste Storage Facility Exterior



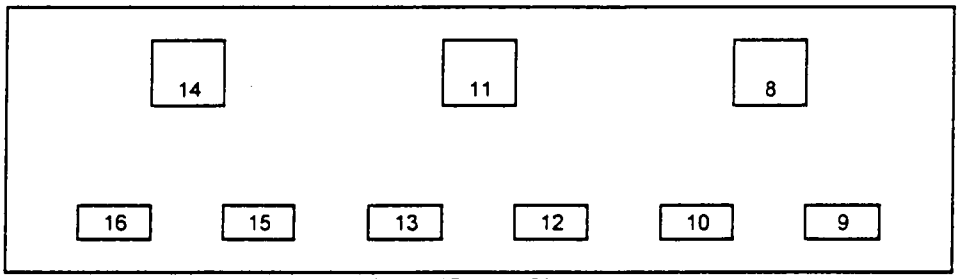
Front (North Side)



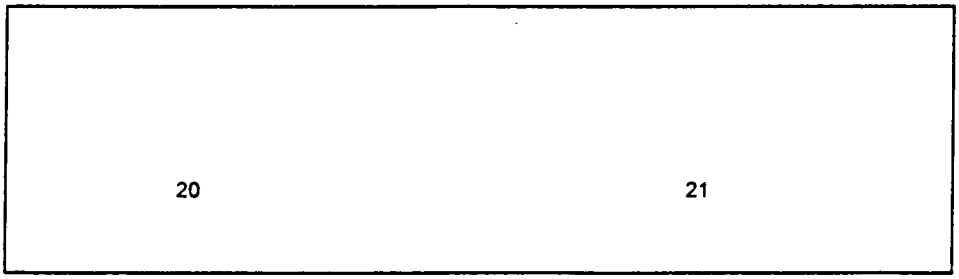
Right Side (West Side)



Left Side (East Side)



Back (South Side)



Roof

COPY

IT Corporation

RADIOLOGICAL SURVEY FORM

Survey Number: 060598004

Survey Description	FREE RELEASE SURVEY OF MUSF ROOM 1
Drawing Attached	Yes (circled) / No

Instrument (1)		
Instrument Model	2929	
Instrument Ser. #	126145	
Calibration Due	2.9.99	
Efficiency	A- 0.25	B- 0.35
MDA A- 11 dpm/100cm²	CF: A- 4	BKG A- 0
MDA B- 84	CF B- 2.6	BKG B- 40

Instrument (2)		
Instrument Model	19	
Instrument Ser. #	144755	
Calibration Due	5.7.99	
Efficiency	A- N/A	B- N/A
MDA A- N/A	CF A- N/A	BKG A- N/A
MDA B- N/A	CF B- N/A	BKG B- 4

Survey Date:	6.5.98
Survey by:	[signature] / [signature] 6.5.98
	Signature / Date
Print Name:	DAN WILLIAMS / DOUG BROWN
Review By:	[signature] 6-11-98
	Signature / Date

Instrument (3)		
Instrument Model	2221	
Instrument Ser. #	117370	
Calibration Due	11.18.98	
Efficiency	0.28	
MDA 189.12 dpm/100cm²	CF: 3.35	BKG 100

Instrument (4)		
Instrument Model	2221	
Instrument Ser. #:	97826	
Calibration Due	11.18.98	
Efficiency	0.18	
MDA 69.2 dpm/100cm²	CF: 5.65	BKG 5

Survey Point	Smearable Contamination beta/gamma dpm/100cm^2	Smearable Contamination alpha dpm/100cm^2	Fixed Contamination beta/gamma cpm/100cm^2	Fixed Contamination alpha cpm/100cm^2	Radiation Level (uR/hr)	Instrument Used	Additional Comments
							100% SCAN OF ALL AFFECTED AREAS FOR
							ALPHA AND BETA-GAMMA CONTAMINATION
							5-1 MINUTE STATIC COUNTS WERE PERFORMED
							IN EACH GRID. ONE SMEAR WAS COLLECTED
							PER GRID FOR H_3-C_{14} AND GROSS ALPHA
							AND BETA-GAMMA CONTAMINATION. ONE
							RADIATION LEVEL READING WAS
							COLLECTED PER GRID.
							UNAFFECTED AREA - SAME AS ABOVE
							EXCEPT - 1-1 MINUTE STATIC COUNT
							PER LOCATION

COPY

Mixed Waste Storage Facilty Room 1
Interior - Affected Area & Unaffected Areas
Survey Number - 060598004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
East Wall	1A-A	104	4	93	7	0.28	0.18	39	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-B	99	5	93	7	0.28	0.18	21	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-C	105	4	93	7	0.28	0.18	43	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-D	96	5	93	7	0.28	0.18	11	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-Ce	104	5	93	7	0.28	0.18	39	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-A	103	7	93	7	0.28	0.18	36	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-B	95	6	93	7	0.28	0.18	7	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-C	89	4	93	7	0.28	0.18	-14	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-D	111	5	93	7	0.28	0.18	64	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-Ce	99	4	93	7	0.28	0.18	21	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-A	110	2	93	7	0.28	0.18	61	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-B	101	3	93	7	0.28	0.18	29	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-C	98	4	93	7	0.28	0.18	18	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-D	102	6	93	7	0.28	0.18	32	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-Ce	111	1	93	7	0.28	0.18	64	-33	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-A	95	6	93	7	0.28	0.18	7	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-B	88	5	93	7	0.28	0.18	-18	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-C	105	5	93	7	0.28	0.18	43	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-D	110	4	93	7	0.28	0.18	61	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-Ce	100	5	93	7	0.28	0.18	25	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-A	107	4	93	7	0.28	0.18	[illegible]	-1[illegible]	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-B	100	4	93	7	0.28	0.18	25	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-C	96	4	93	7	0.28	0.18	11	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-D	108	4	93	7	0.28	0.18	54	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-Ce	101	4	93	7	0.28	0.18	29	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-A	104	7	93	7	0.28	0.18	39	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-B	96	4	93	7	0.28	0.18	11	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-C	105	3	93	7	0.28	0.18	43	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785

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Mixed Waste Storage Facilty Room 1
Interior - Affected Area & Unaffected Areas
Survey Number - 060598004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	3B-D	108	4	93	7	0.28	0.18	54	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-Ce	115	9	93	7	0.28	0.18	79	11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
South Wall	1A-A	107	1	93	7	0.28	0.18	50	-33	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-B	100	2	93	7	0.28	0.18	25	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-C	103	5	93	7	0.28	0.18	36	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-D	97	6	93	7	0.28	0.18	14	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-Ce	104	6	93	7	0.28	0.18	39	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-A	118	5	93	7	0.28	0.18	89	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-B	101	5	93	7	0.28	0.18	29	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-C	130	3	93	7	0.28	0.18	132	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-D	105	8	93	7	0.28	0.18	43	6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-Ce	111	4	93	7	0.28	0.18	64	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-A	102	4	93	7	0.28	0.18	32	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-B	107	4	93	7	0.28	0.18	50	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-C	110	5	93	7	0.28	0.18	61	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-D	106	4	93	7	0.28	0.18	46	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-Ce	105	5	93	7	0.28	0.18	43	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-A	118	5	93	7	0.28	0.18	89	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-B	105	6	93	7	0.28	0.18	43	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-C	99	8	93	7	0.28	0.18	21	6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-D	107	7	93	7	0.28	0.18	50	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-Ce	104	5	93	7	0.28	0.18	39	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-A	115	8	93	7	0.28	0.18	79	6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-B	120	6	93	7	0.28	0.18	96	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-C	110	7	93	7	0.28	0.18	61	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-D	95	6	93	7	0.28	0.18	7	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-Ce	119	7	93	7	0.28	0.18	93	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-A	126	5	93	7	0.28	0.18	118	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785

Mixed Waste Storage Facilty Room 1
Interior - Affected Area & Unaffected Areas
Survey Number - 060598004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	3B-B	131	5	93	7	0.28	0.18	136	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-C	101	4	93	7	0.28	0.18	29	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-D	117	5	93	7	0.28	0.18	86	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-Ce	100	5	93	7	0.28	0.18	25	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
West Wall	1A-A	108	4	93	7	0.28	0.18	54	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-B	99	7	93	7	0.28	0.18	21	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-C	109	6	93	7	0.28	0.18	57	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-D	116	6	93	7	0.28	0.18	82	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-Ce	120	5	93	7	0.28	0.18	96	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-A	115	5	93	7	0.28	0.18	79	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-B	108	6	93	7	0.28	0.18	54	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-C	105	6	93	7	0.28	0.18	43	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-D	119	8	93	7	0.28	0.18	93	6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-Ce	106	4	93	7	0.28	0.18	46	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-A	125	4	93	7	0.28	0.18	114	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-B	109	4	93	7	0.28	0.18	57	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-C	128	5	93	7	0.28	0.18	125	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-D	101	5	93	7	0.28	0.18	29	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-Ce	95	4	93	7	0.28	0.18	7	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-A	94	4	93	7	0.28	0.18	[illegible]	[illegible]	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-B	120	3	93	7	0.28	0.18	9[illegible]	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-C	118	5	93	7	0.28	0.18	89	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-D	117	5	93	7	0.28	0.18	86	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-Ce	101	9	93	7	0.28	0.18	29	11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-A	120	3	93	7	0.28	0.18	96	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-B	118	5	93	7	0.28	0.18	89	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-C	105	4	93	7	0.28	0.18	43	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-D	131	4	93	7	0.28	0.18	136	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785

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Mixed Waste Storage Facilty Room 1
Interior - Affected Area & Unaffected Areas
Survey Number - 060598004

		Fixed Contamination		Background		Efficiency		Activity					
Survey ocation	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	3A-Ce	120	9	93	7	0.28	0.18	96	11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-A	102	6	93	7	0.28	0.18	32	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-B	111	4	93	7	0.28	0.18	64	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-C	122	5	93	7	0.28	0.18	104	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-D	118	5	93	7	0.28	0.18	89	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-Ce	106	4	93	7	0.28	0.18	46	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
Vorth Wall	1A-A	110	7	93	7	0.28	0.18	61	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-B	107	6	93	7	0.28	0.18	50	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-C	126	7	93	7	0.28	0.18	118	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-D	121	7	93	7	0.28	0.18	100	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-Ce	115	2	93	7	0.28	0.18	79	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-A	112	1	93	7	0.28	0.18	68	-33	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-B	96	3	93	7	0.28	0.18	11	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-C	118	2	93	7	0.28	0.18	89	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-D	128	2	93	7	0.28	0.18	125	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-Ce	119	4	93	7	0.28	0.18	93	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-A	127	6	93	7	0.28	0.18	121	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-B	109	6	93	7	0.28	0.18	57	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-C	117	7	93	7	0.28	0.18	86	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-D	106	5	93	7	0.28	0.18	46	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-Ce	100	4	93	7	0.28	0.18	25	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-A	99	5	93	7	0.28	0.18	21	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-B	89	5	93	7	0.28	0.18	-14	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-C	109	4	93	7	0.28	0.18	57	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-D	110	3	93	7	0.28	0.18	61	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-Ce	122	5	93	7	0.28	0.18	104	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-A	109	7	93	7	0.28	0.18	57	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-B	105	8	93	7	0.28	0.18	43	6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785

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Mixed Waste Storage Facilty Room 1
Interior - Affected Area & Unaffected Areas
Survey Number - 060598004

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	3A-C	102	7	93	7	0.28	0.18	32	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-D	100	76	93	7	0.28	0.18	25	383	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-Ce	113	6	93	7	0.28	0.18	71	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-A	96	3	93	7	0.28	0.18	11	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-B	106	7	93	7	0.28	0.18	46	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-C	100	8	93	7	0.28	0.18	25	6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-D	113	4	93	7	0.28	0.18	71	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-Ce	101	6	93	7	0.28	0.18	29	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
Ceiling	25	104	6	93	7	0.28	0.18	39	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	26	110	2	93	7	0.28	0.18	61	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	27	113	8	93	7	0.28	0.18	71	6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
Floor	1A-A	122	8	93	7	0.28	0.18	104	6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-B	111	3	93	7	0.28	0.18	64	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-C	106	5	93	7	0.28	0.18	46	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-D	101	3	93	7	0.28	0.18	29	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1A-Ce	99	6	93	7	0.28	0.18	21	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-A	112	6	93	7	0.28	0.18	68	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-B	108	3	93	7	0.28	0.18	54	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-C	116	4	93	7	0.28	0.18	82	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-D	96	4	93	7	0.28	0.18	11	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1B-Ce	105	4	93	7	0.28	0.18	4[illegible]	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1C-A	130	3	93	7	0.28	0.18	132	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1C-B	127	2	93	7	0.28	0.18	121	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1C-C	104	4	93	7	0.28	0.18	39	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1C-D	97	3	93	7	0.28	0.18	14	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	1C-Ce	106	2	93	7	0.28	0.18	46	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-A	121	6	93	7	0.28	0.18	100	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-B	108	2	93	7	0.28	0.18	54	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785

Mixed Waste Storage Facilty Room 1
Interior - Affected Area & Unaffected Areas
Survey Number - 060598004

		Fixed Contamination		Background		Efficiency		Activity					
urvey ocation	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	2A-C	116	5	93	7	0.28	0.18	82	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-D	96	2	93	7	0.28	0.18	11	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2A-Ce	100	4	93	7	0.28	0.18	25	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-A	125	6	93	7	0.28	0.18	114	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-B	101	5	93	7	0.28	0.18	29	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-C	99	4	93	7	0.28	0.18	21	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-D	131	4	93	7	0.28	0.18	136	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2B-Ce	102	8	93	7	0.28	0.18	32	6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2C-A	128	4	93	7	0.28	0.18	125	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2C-B	116	5	93	7	0.28	0.18	82	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2C-C	111	6	93	7	0.28	0.18	64	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2C-D	100	4	93	7	0.28	0.18	25	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	2C-Ce	106	9	93	7	0.28	0.18	46	11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-A	119	7	93	7	0.28	0.18	93	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-B	121	5	93	7	0.28	0.18	100	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-C	88	7	93	7	0.28	0.18	-18	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-D	130	6	93	7	0.28	0.18	132	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3A-Ce	115	5	93	7	0.28	0.18	79	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-A	108	2	93	7	0.28	0.18	54	-28	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-B	116	5	93	7	0.28	0.18	82	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-C	99	7	93	7	0.28	0.18	21	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-D	102	5	93	7	0.28	0.18	32	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3B-Ce	85	6	93	7	0.28	0.18	-29	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3C-A	115	6	93	7	0.28	0.18	79	-6	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3C-B	106	3	93	7	0.28	0.18	46	-22	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3C-C	95	5	93	7	0.28	0.18	7	-11	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3C-D	88	4	93	7	0.28	0.18	-18	-17	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785
	3C-Ce	107	7	93	7	0.28	0.18	50	0	Model 2221 SN 117370/97826	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 1
Interior - Affected Area & Unaffected Areas
Survey Number - 060598004

		Loose Contamination		Background		Efficiency		Activity		
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used
East Wall	1A-A	41	0	40	0	0.38	0.25	3	0	Model 2929 SN 126145
	2A-A	25	0	40	0	0.38	0.25	-39	0	Model 2929 SN 126145
	1B-A	38	0	40	0	0.38	0.25	-5	0	Model 2929 SN 126145
	2B-A	47	1	40	0	0.38	0.25	18	4	Model 2929 SN 126145
	3A-A	35	0	40	0	0.38	0.25	-13	0	Model 2929 SN 126145
	3B-A	37	0	40	0	0.38	0.25	-8	0	Model 2929 SN 126145
South Wall	1A-A	51	0	40	0	0.38	0.25	29	0	Model 2929 SN 126145
	1B-A	41	0	40	0	0.38	0.25	3	0	Model 2929 SN 126145
	2B-A	47	0	40	0	0.38	0.25	18	0	Model 2929 SN 126145
	3A-A	35	0	40	0	0.38	0.25	-13	0	Model 2929 SN 126145
	3B-A	40	0	40	0	0.38	0.25	0	0	Model 2929 SN 126145
West Wall	1A-A	38	0	40	0	0.38	0.25	-5	0	Model 2929 SN 126145
	2A-A	42	0	40	0	0.38	0.25	5	0	Model 2929 SN 126145
	1B-A	38	0	40	0	0.38	0.25	-5	0	Model 2929 SN 126145
	2B-A	41	0	40	0	0.38	0.25	3	0	Model 2929 SN 126145
	3A-A	35	0	40	0	0.38	0.25	-13	0	Model 2929 SN 126145
	3B-A	33	0	40	0	0.38	0.25	-18	0	Model 2929 SN 126145
North Wall	1A-A	52	0	40	0	0.38	0.25	32	0	Model 2929 SN 126145
	2A-A	38	0	40	0	0.38	0.25	-5	0	Model 2929 SN 126145

COPY

Mixed Waste Storage Facilty Room 1
Interior - Affected Area & Unaffected Areas
Survey Number - 060598004

		Loose Contamination		Background		Efficiency		Activity		
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used
	1B-A	42	0	40	0	0.38	0.25	5	0	Model 2929 SN 126145
	2B-A	37	0	40	0	0.38	0.25	-8	0	Model 2929 SN 126145
	3A-A	33	0	40	0	0.38	0.25	-18	0	Model 2929 SN 126145
	3B-A	39	0	40	0	0.38	0.25	-3	0	Model 2929 SN 126145
Ceiling	25	41	0	40	0	0.38	0.25	3	0	Model 2929 SN 126145
	26	45	0	40	0	0.38	0.25	13	0	Model 2929 SN 126145
	27	50	0	40	0	0.38	0.25	26	0	Model 2929 SN 126145
Floor	1A-A	28	0	40	0	0.38	0.25	-32	0	Model 2929 SN 126145
	1B-A	39	0	40	0	0.38	0.25	-3	0	Model 2929 SN 126145
	1C-A	41	0	40	0	0.38	0.25	3	0	Model 2929 SN 126145
	2A-A	50	0	40	0	0.38	0.25	26	0	Model 2929 SN 126145
	2B-A	38	0	40	0	0.38	0.25	-5	0	Model 2929 SN 126145
	2C-A	29	0	40	0	0.38	0.25	-29	0	Model 2929 SN 126145
	3A-A	37	1	40	0	0.38	0.25	-8	4	Model 2929 SN 126145
	3B-A	49	0	40	0	0.38	0.25	24	0	Model 2929 SN 126145
	3C-A	39	1	40	0	0.38	0.25	-3	4	Model 2929 SN 126145

COPY

COPY

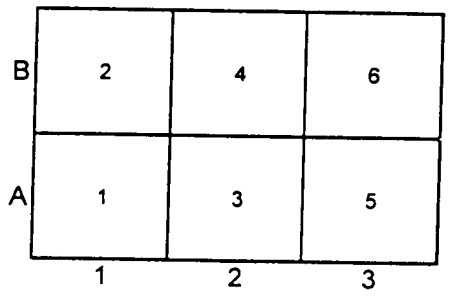
Protocol #:22 Name:UCD Wipe Test 05-Jun-98 11:55
Region A: LL-UL= 0.0-50.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=50.0-250. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 5.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 254595 Nuclide 2 = 122000
Warning: User program changes may have invalidated DPM calculation
Save Data Filename = SDATA22.DAT

S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	5.00	19.20	5.00	36.80	54.47	3.98	49.277	346.	
2	5.00	30.40	8.80	53.00	88.01	7.41	50.689	336.	
3	5.00	21.40	5.80	41.20	63.00	4.71	51.726	330.	

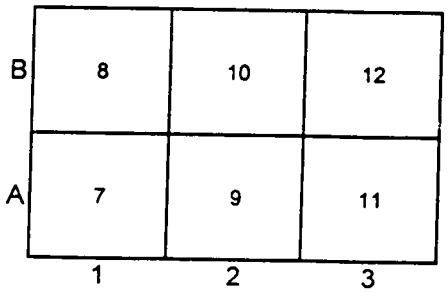
6	5.00	18.80	6.80	37.00	56.83	6.29	54.808	314.
7	5.00	23.00	9.00	45.20	74.32	8.53	59.537	290.
8	5.00	19.00	8.20	38.80	65.45	7.94	50.956	270.
9	5.00	22.40	8.60	43.40	108.13	7.58	44.002	202.
10	5.00	21.00	7.80	46.80	64.00	7.28	60.462	311.
11	5.00	21.60	7.80	40.80	71.97	7.16	47.468	281.
12	5.00	21.80	8.40	41.80	61.74	7.95	63.754	339.
13	5.00	24.00	6.40	40.60	91.71	4.78	41.804	251.
14	5.00	19.40	8.00	39.20	59.60	7.73	57.089	305.
15	5.00	23.60	9.40	49.20	74.04	8.98	61.176	299.
16	5.00	23.00	7.20	45.40	68.84	6.28	45.833	321.
17	5.00	27.40	10.20	52.00	111.12	9.06	41.953	235.
18	5.00	24.20	8.80	46.60	78.47	8.12	52.965	290.
19	5.00	18.80	8.20	42.20	68.80	7.88	51.824	255.
20	5.00	22.80	8.00	43.00	83.26	7.07	49.936	259.
21	5.00	22.00	12.60	48.20	88.11	12.99	52.620	231.
22	5.00	20.40	10.60	45.80	82.84	10.63	54.137	230.
23	5.00	23.60	8.60	44.00	97.66	7.54	43.628	231.
24	5.00	27.60	9.60	50.60	108.50	8.31	46.111	242.
25	5.00	14.60	8.40	38.00	39.04	8.80	77.515	350.
26	5.00	18.40	7.40	42.80	51.23	7.09	65.830	345.
27	5.00	15.80	7.80	38.00	55.91	7.81	56.515	261.
28	5.00	19.60	9.00	41.60	112.29	8.62	47.012	173.
29	5.00	20.40	10.40	44.20	112.94	10.35	46.230	177.
30	5.00	18.60	8.00	38.20	109.43	7.46	42.715	170.
31	5.00	22.40	12.80	47.40	119.71	13.20	48.031	181.
32	5.00	26.60	9.80	53.40	130.72	8.44	40.329	199.
33	5.00	19.60	8.20	42.60	85.64	7.59	50.286	218.
34	5.00	23.40	13.20	49.00	157.67	13.96	44.605	150.
35	5.00	15.20	10.20	39.80	88.92	11.13	55.884	166.
36	5.00	17.00	10.00	43.80	93.07	10.43	44.819	177.

COPY

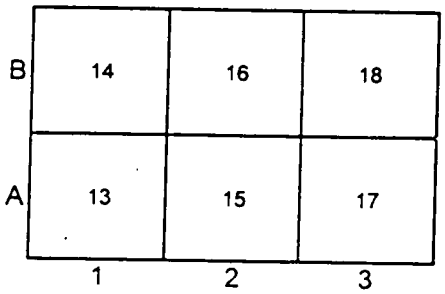
Mixed Waste Storage Facility Room 1



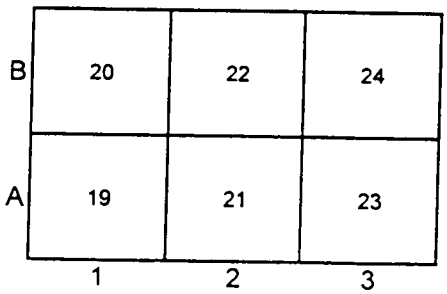
East Wall



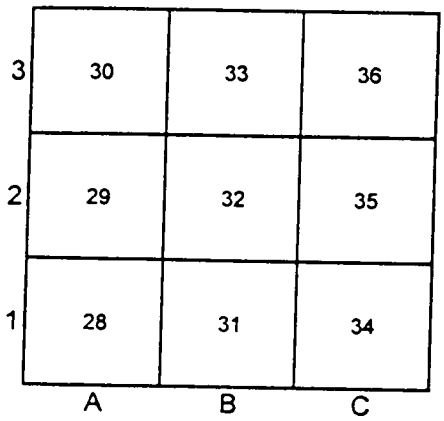
South Wall



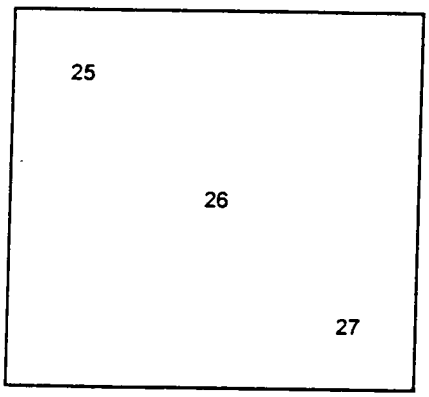
West Wall



North Wall



Floor



Ceiling

COPY

IT Corporation

RADIOLOGICAL SURVEY FORM

Survey Number: C60898001

Survey Description:	FREE RELEASE SURVEY OF MWSF ROOM 2
Drawing Attached	(Yes) No

Instrument (1)		
Instrument Model	2929	
Instrument Ser. #.	126145	
Calibration Due	2.9.99	
Efficiency:	A- 0.25	B- 0.38
MDA: A- 11 dpm/100cm²	CF: A- 4	BKG A- 0
MDA B- 84 dpm/100cm²	CF: B- 2.6	BKG B- 40

Instrument (2)		
Instrument Model	19	
Instrument Ser. #	144785	
Calibration Due:	5.7.99	
Efficiency:	A- N/A	B- N/A
MDA A- N/A	CF A- N/A	BKG A- N/A
MDA B-	CF B-	BKG B- 4

Survey Date:	6.8.98
Survey by:	16.8.98
	Signature / Date
Print Name:	Dave Williams / Dave Brown
Review By:	16-1498
	Signature / Date

Instrument (3)		
Instrument Model:	2221	
Instrument Ser. #	117370	
Calibration Due:	11.18.98	
Efficiency:	0.28	
MDA 159.12 dpm/100cm²	CF: 3.55	BKG: 93

Instrument (4)		
Instrument Model:	2221	
Instrument Ser. #.	97826	
Calibration Due:	11.18.98	
Efficiency:	0.18	
MDA 692 dpm/100cm²	CF: 5.65	BKG 7

Survey Point	Smearable Contamination beta/gamma dpm/100cm^2	Smearable Contamination alpha dpm/100cm^2	Fixed Contamination beta/gamma cpm/100cm^2	Fixed Contamination alpha cpm/100cm^2	Radiation Level (uR/Hr)	Instrument Used	Additional Comments
	SEE ATTACHED DATA SHEETS						100% SCAN OF ALL AFFECTED AREAS FOR ALPHA AND BETA-GAMMA CONTAMINATION. 5-1 MINUTE STATIC COUNTS WERE PERFORMED IN EACH GRID ONE SMEAR WAS COLLECTED PER GRID FOR H_3-C_{14} AND GROSS ALPHA AND BETA GAMMA CONTAMINATION. ONE RADIATION LEVEL READING WAS COLLECTED PER GRID.
							UNAFFECTED AREA - SAME AS ABOVE EXCEPT - 1-1 MINUTE STATIC COUNT PER LOCATION.

COPY

Mixed Waste Storage Facilty Room 2
Interior - Affected Area & Unaffected Areas
Survey Number - 060898001

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
East Wall	1A-A	93	4	93	7	0.28	0.18	0	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-B	102	6	93	7	0.28	0.18	32	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-C	87	4	93	7	0.28	0.18	-21	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-D	96	2	93	7	0.28	0.18	11	-28	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-Ce	98	4	93	7	0.28	0.18	18	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-A	95	7	93	7	0.28	0.18	7	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-B	89	6	93	7	0.28	0.18	-14	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-C	100	7	93	7	0.28	0.18	25	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-D	97	4	93	7	0.28	0.18	14	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-Ce	93	2	93	7	0.28	0.18	0	-28	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-A	94	8	93	7	0.28	0.18	4	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-B	98	7	93	7	0.28	0.18	18	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-C	88	9	93	7	0.28	0.18	-18	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-D	96	6	93	7	0.28	0.18	11	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-Ce	100	5	93	7	0.28	0.18	25	-11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-A	95	6	93	7	0.28	0.18	7	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-B	90	7	93	7	0.28	0.18	-11	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-C	94	7	93	7	0.28	0.18	4	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-D	101	6	93	7	0.28	0.18	29	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-Ce	96	5	93	7	0.28	0.18	11	-11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-A	113	6	93	7	0.28	0.18	71	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-B	102	6	93	7	0.28	0.18	32	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-C	98	7	93	7	0.28	[illegible]	[illegible]	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-D	91	7	93	7	0.28	0.18	-7	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-Ce	93	7	93	7	0.28	0.18	0	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-A	91	8	93	7	0.28	0.18	-7	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-B	94	8	93	7	0.28	0.18	4	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-C	99	7	93	7	0.28	0.18	21	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 2
Interior - Affected Area & Unaffected Areas
Survey Number - 060898001

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	3B-D	88	7	93	7	0.28	0.18	-18	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-Ce	101	6	93	7	0.28	0.18	29	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
South Wall	1A-A	98	7	93	7	0.28	0.18	18	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-B	90	7	93	7	0.28	0.18	-11	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-C	89	6	93	7	0.28	0.18	-14	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-D	102	7	93	7	0.28	0.18	32	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-Ce	100	8	93	7	0.28	0.18	25	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-A	97	4	93	7	0.28	0.18	14	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-B	100	7	93	7	0.28	0.18	25	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-C	105	6	93	7	0.28	0.18	43	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-D	92	5	93	7	0.28	0.18	-4	-11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-Ce	100	7	93	7	0.28	0.18	25	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-A	99	8	93	7	0.28	0.18	21	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-B	102	8	93	7	0.28	0.18	32	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-C	88	9	93	7	0.28	0.18	-18	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-D	98	9	93	7	0.28	0.18	18	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-Ce	106	10	93	7	0.28	0.18	46	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-A	99	7	93	7	0.28	0.18	21	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-B	85	8	93	7	0.28	0.18	-29	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-C	102	7	93	7	0.28	0.18	32	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-D	100	6	93	7	0.28	0.18	25	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-Ce	101	5	93	7	0.28	0.18	29	-11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-A	98	4	93	7	0.28	0.18	18	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-B	109	4	93	7	0.28	0.18	57	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-C	87	5	93	7	0.28	0.18	-21	-11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-D	98	6	93	7	0.28	0.18	18	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-Ce	95	7	93	7	0.28	0.18	7	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-A	97	8	93	7	0.28	0.18	14	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 2
Interior - Affected Area & Unaffected Areas
Survey Number - 060898001

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	3B-B	104	9	93	7	0.28	0.18	39	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-C	111	9	93	7	0.28	0.18	64	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-D	87	8	93	7	0.28	0.18	-21	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-Ce	94	7	93	7	0.28	0.18	4	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
West Wall	1A-A	96	8	93	7	0.28	0.18	11	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-B	98	7	93	7	0.28	0.18	18	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-C	104	7	93	7	0.28	0.18	39	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-D	95	8	93	7	0.28	0.18	7	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-Ce	90	9	93	7	0.28	0.18	-11	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-A	89	10	93	7	0.28	0.18	-14	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-B	106	10	93	7	0.28	0.18	46	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-C	100	11	93	7	0.28	0.18	25	22	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-D	98	12	93	7	0.28	0.18	18	28	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-Ce	97	12	93	7	0.28	0.18	14	28	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-A	99	13	93	7	0.28	0.18	21	33	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-B	103	10	93	7	0.28	0.18	36	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-C	108	9	93	7	0.28	0.18	54	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-D	116	7	93	7	0.28	0.18	82	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-Ce	88	9	93	7	0.28	0.18	-18	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-A	104	10	93	7	0.28	0.18	39	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-B	6	10	93	7	0.28	0.18	-311	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-C	94	10	93	7	0.28	0.18	4	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-D	93	9	93	7	0.28	0.18	0	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-Ce	92	8	93	7	0.28	0.18	-4	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-A	101	8	93	7	0.28	0.18	29	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-B	98	10	93	7	0.28	0.18	18	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-C	81	10	93	7	0.28	0.18	-43	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-D	104	10	93	7	0.28	0.18	39	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 2
Interior - Affected Area & Unaffected Areas
Survey Number - 060898001

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	3A-Ce	100	10	93	7	0.28	0.18	25	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-A	97	10	93	7	0.28	0.18	14	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-B	98	9	93	7	0.28	0.18	18	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-C	103	9	93	7	0.28	0.18	36	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-D	99	8	93	7	0.28	0.18	21	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-Ce	88	8	93	7	0.28	0.18	-18	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
North Wall	1A-A	106	9	93	7	0.28	0.18	46	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-B	95	10	93	7	0.28	0.18	7	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-C	89	9	93	7	0.28	0.18	-14	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-D	103	9	93	7	0.28	0.18	36	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-Ce	84	8	93	7	0.28	0.18	-32	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-A	99	10	93	7	0.28	0.18	21	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-B	96	8	93	7	0.28	0.18	11	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-C	94	9	93	7	0.28	0.18	4	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-D	101	9	93	7	0.28	0.18	29	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-Ce	102	9	93	7	0.28	0.18	32	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-A	98	8	93	7	0.28	0.18	18	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-B	94	10	93	7	0.28	0.18	4	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-C	100	10	93	7	0.28	0.18	25	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-D	103	10	93	7	0.28	0.18	36	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-Ce	96	11	93	7	0.28	0.18	11	22	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-A	97	13	93	7	0.28	0.18	14	33	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-B	98	12	93	7	0.28	0.18	18	28	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-C	106	8	93	7	0.28	0.18	46	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-D	100	8	93	7	0.28	0.18	25	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-Ce	97	8	93	7	0.28	0.18	14	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-A	94	9	93	7	0.28	0.18	4	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-B	88	10	93	7	0.28	0.18	-18	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785

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Mixed Waste Storage Facilty Room 2
Interior - Affected Area & Unaffected Areas
Survey Number - 060898001

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	3A-C	92	11	93	7	0.28	0.18	-4	22	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-D	95	12	93	7	0.28	0.18	7	28	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-Ce	103	13	93	7	0.28	0.18	36	33	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-A	101	13	93	7	0.28	0.18	29	33	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-B	96	12	93	7	0.28	0.18	11	28	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-C	92	10	93	7	0.28	0.18	-4	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-D	100	10	93	7	0.28	0.18	25	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-Ce	93	9	93	7	0.28	0.18	0	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
Ceiling	B1	110	8	93	7	0.28	0.18	61	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	B2	106	8	93	7	0.28	0.18	46	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	B3	101	8	93	7	0.28	0.18	29	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
Floor	1A-A	106	9	93	7	0.28	0.18	46	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-B	94	9	93	7	0.28	0.18	4	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-C	90	6	93	7	0.28	0.18	-11	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-D	91	7	93	7	0.28	0.18	-7	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1A-Ce	88	7	93	7	0.28	0.18	-18	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-A	103	5	93	7	0.28	0.18	36	-11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-B	101	5	93	7	0.28	0.18	29	-11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-C	100	4	93	7	0.28	0.18	25	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-D	97	4	93	7	0.28	0.18	14	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1B-Ce	96	1	93	7	0.28	0.18	11	-33	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1C-A	89	8	93	7	0.28	0.18	-14	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1C-B	83	7	93	7	0.28	0.18	-36	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1C-C	110	6	93	7	0.28	0.18	61	-6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1C-D	106	7	93	7	0.28	0.18	46	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	1C-Ce	103	8	93	7	0.28	0.18	36	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-A	101	8	93	7	0.28	0.18	29	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-B	101	9	93	7	0.28	0.18	29	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785

Mixed Waste Storage Facilty Room 2
Interior - Affected Area & Unaffected Areas
Survey Number - 060898001

		Fixed Contamination		Background		Efficiency		Activity					
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used	Gamma Background	Gamma Reading	Instrument Used
	2A-C	95	9	93	7	0.28	0.18	7	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-D	98	10	93	7	0.28	0.18	18	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2A-Ce	97	10	93	7	0.28	0.18	14	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-A	92	11	93	7	0.28	0.18	-4	22	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-B	91	12	93	7	0.28	0.18	-7	28	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-C	94	13	93	7	0.28	0.18	4	33	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-D	108	13	93	7	0.28	0.18	54	33	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2B-Ce	107	12	93	7	0.28	0.18	50	28	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2C-A	112	11	93	7	0.28	0.18	68	22	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2C-B	103	11	93	7	0.28	0.18	36	22	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2C-C	97	9	93	7	0.28	0.18	14	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2C-D	94	9	93	7	0.28	0.18	4	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	2C-Ce	93	9	93	7	0.28	0.18	0	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-A	99	7	93	7	0.28	0.18	21	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-B	103	7	93	7	0.28	0.18	36	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-C	89	3	93	7	0.28	0.18	-14	-22	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-D	112	3	93	7	0.28	0.18	68	-22	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3A-Ce	103	4	93	7	0.28	0.18	36	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-A	89	5	93	7	0.28	0.18	-14	-11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-B	105	5	93	7	0.28	0.18	43	-11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-C	107	4	93	7	0.28	0.18	50	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-D	100	4	93	7	0.28	0.18	25	-17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3B-Ce	96	7	93	7	0.28	0.18	11	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3C-A	95	7	93	7	0.28	0.18	7	0	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3C-B	91	8	93	7	0.28	0.18	[illegible]	6	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3C-C	88	10	93	7	0.28	0.18	18	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3C-D	97	10	93	7	0.28	0.18	14	17	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785
	3C-Ce	98	9	93	7	0.28	0.18	18	11	Model 2221 SN 117370/37826	4	4	Model 19 SN 144785

COPY

Mixed Waste Storage Facilty Room 2
Interior - Affected Area & Unaffected Areas
Survey Number - 060898001

		Loose Contamination		Background		Efficiency		Activity		
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used
East Wall	1A-A	35	0	40	0	0.38	0.25	-13	0	Model 2929 SN 126145
	2A-A	45	0	40	0	0.38	0.25	13	0	Model 2929 SN 126145
	1B-A	27	0	40	0	0.38	0.25	-34	0	Model 2929 SN 126145
	2B-A	40	0	40	0	0.38	0.25	0	0	Model 2929 SN 126145
	3A-A	47	0	40	0	0.38	0.25	18	0	Model 2929 SN 126145
	3B-A	41	0	40	0	0.38	0.25	3	0	Model 2929 SN 126145
South Wall	1A-A	34	0	40	0	0.38	0.25	-16	0	Model 2929 SN 126145
	1B-A	35	0	40	0	0.38	0.25	-13	0	Model 2929 SN 126145
	2B-A	37	0	40	0	0.38	0.25	-8	0	Model 2929 SN 126145
	3A-A	34	1	40	0	0.38	0.25	-16	4	Model 2929 SN 126145
	3B-A	36	0	40	0	0.38	0.25	-11	0	Model 2929 SN 126145
West Wall	1A-A	36	0	40	0	0.38	0.25	-11	0	Model 2929 SN 126145
	2A-A	31	0	40	0	0.38	0.25	-24	0	Model 2929 SN 126145
	1B-A	34	0	40	0	0.38	0.25	-16	0	Model 2929 SN 126145
	2B-A	31	0	40	0	0.38	0.25	-24	0	Model 2929 SN 126145
	3A-A	31	0	40	0	0.38	0.25	-24	0	Model 2929 SN 126145
	3B-A	36	0	40	0	0.38	0.25	-11	0	Model 2929 SN 126145
North Wall	1A-A	36	0	40	0	0.38	0.25	-11	0	Model 2929 SN 126145
	2A-A	46	0	40	0	0.38	0.25	16	0	Model 2929 SN 126145
	1B-A	50	0	40	0	0.38	0.25	26	0	Model 2929 SN 126145
	2B-A	36	0	40	0	0.38	0.25	-11	0	Model 2929 SN 126145

COPY

Mixed Waste Storage Facilty Room 2
Interior - Affected Area & Unaffected Areas
Survey Number - 060898001

		Loose Contamination		Background		Efficiency		Activity		
Survey Location	Survey Point	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta/Gamma cpm/100 cm^2	Alpha cpm/100 cm^2	Beta Gamma	Alpha	Beta/Gamma dpm/100 cm^2	Alpha dpm/100 cm^2	Instrument Used
	3A-A	48	0	40	0	0.38	0.25	21	0	Model 2929 SN 126145
	3B-A	40	0	40	0	0.38	0.25	0	0	Model 2929 SN 126145
Ceiling	25	33	0	40	0	0.38	0.25	-18	0	Model 2929 SN 126145
	26	27	0	40	0	0.38	0.25	-34	0	Model 2929 SN 126145
	27	36	0	40	0	0.38	0.25	-11	0	Model 2929 SN 126145
Floor	1A-A	38	0	40	0	0.38	0.25	-5	0	Model 2929 SN 126145
	1B-A	52	0	40	0	0.38	0.25	32	0	Model 2929 SN 126145
	1C-A	42	0	40	0	0.38	0.25	5	0	Model 2929 SN 126145
	2A-A	48	0	40	0	0.38	0.25	21	0	Model 2929 SN 126145
	2B-A	41	0	40	0	0.38	0.25	3	0	Model 2929 SN 126145
	2C-A	55	2	40	0	0.38	0.25	39	8	Model 2929 SN 126145
	3A-A	41	0	40	0	0.38	0.25	3	0	Model 2929 SN 126145
	3B-A	39	0	40	0	0.38	0.25	-3	0	Model 2929 SN 126145
	3C-A	47	1	40	0	0.38	0.25	18	4	Model 2929 SN 126145

COPY

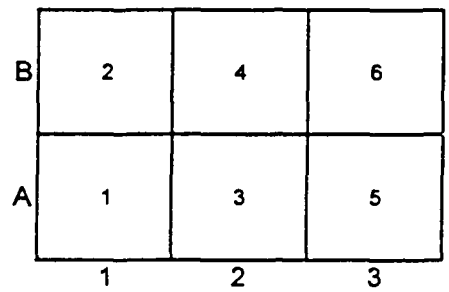
Protocol #:22 Name:ULD Wide Test 08-Jun-98 07:28

Region A: LL-UL= 0.0-50.0 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL=50.0-250. Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL= 0.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 5.00 QIP = tSIE/AEC ES Terminator = Count
Conventional DPM
Nuclide 1 = 254595 Nuclide 2 = 122000
Warning: User program changes may have invalidated DPM calculation
Save Data Filename = SDATA22.DAT

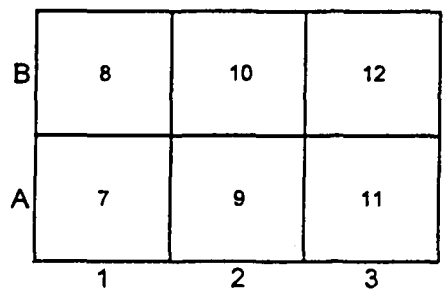
S#	TIME	CPMA	CPMB	CPMC	DPM1	DPM2	SIS	tSIE	FLAG
1	5.00	97.80	7.60	120.20	258.19	0.00	22.107	393.	
2	5.00	67.60	10.40	92.20	169.58	4.97	36.281	414.	
3	5.00	44.40	7.80	65.40	109.05	4.46	40.201	425.	
4	5.00	29.60	6.20	48.00	75.00	4.22	40.864	404.	
5	5.00	28.60	8.20	50.60	70.07	6.81	55.129	416.	
6	5.00	30.80	6.80	53.20	75.91	4.82	51.196	418.	
7	5.00	30.40	6.60	49.40	74.77	4.61	54.474	420.	
8	5.00	20.80	10.40	44.40	51.26	10.49	67.783	394.	
9	5.00	22.60	9.40	43.20	54.47	9.00	71.387	414.	
10	5.00	19.60	9.00	39.60	57.91	8.98	60.631	317.	
11	5.00	41.80	7.60	66.20	103.11	4.52	38.606	421.	
12	5.00	43.80	8.20	62.00	111.86	5.04	35.571	401.	
13	5.00	29.20	6.80	47.80	77.12	5.03	45.974	380.	
14	5.00	22.80	10.00	47.20	56.33	9.75	72.146	398.	
15	5.00	26.20	8.20	46.40	66.89	7.12	58.517	391.	
16	5.00	28.80	9.20	48.20	74.43	8.06	54.315	384.	
17	5.00	26.40	9.00	45.60	65.50	8.07	67.153	404.	
18	5.00	20.60	9.60	45.40	51.54	9.52	67.697	389.	
19	5.00	24.80	8.20	45.00	62.26	7.27	59.972	399.	
20	5.00	25.20	6.40	42.80	64.92	4.99	50.583	391.	
21	5.00	33.20	8.00	53.40	92.33	6.06	41.683	356.	
22	5.00	32.80	6.80	53.20	88.48	4.60	41.318	372.	
23	5.00	25.60	9.80	46.00	63.11	9.16	61.997	404.	
24	5.00	21.20	8.80	46.40	54.19	8.46	70.545	382.	
25	5.00	18.00	6.80	40.20	42.85	6.31	71.664	425.	
26	5.00	24.60	8.20	45.60	63.78	7.31	65.185	382.	
27	5.00	23.80	7.40	48.20	58.94	6.39	62.132	408.	
28	5.00	33.20	9.40	54.60	98.58	7.81	49.007	326.	
29	5.00	39.00	8.00	59.00	134.11	5.10	37.024	280.	
30	5.00	30.60	8.40	52.40	113.84	6.47	37.519	257.	
31	5.00	33.80	8.20	55.40	111.58	6.11	40.040	290.	
32	5.00	27.00	8.60	49.20	76.41	7.57	48.105	344.	
33	5.00	23.40	7.40	45.40	67.98	6.49	59.755	333.	
34	5.00	30.00	8.40	51.40	109.80	6.59	40.848	261.	
35	5.00	27.80	8.60	49.80	90.51	7.40	44.023	291.	
36	5.00	25.20	10.40	48.40	90.11	9.84	53.559	261.	

COPY

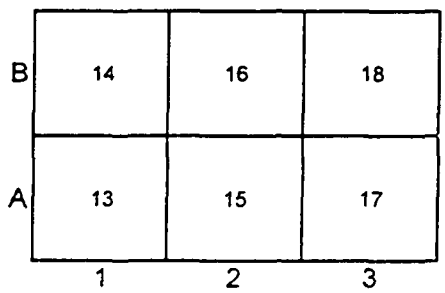
Mixed Waste Storage Facility Room 2



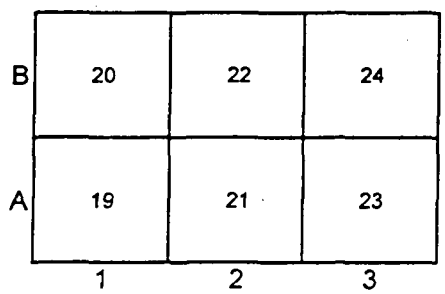
East Wall



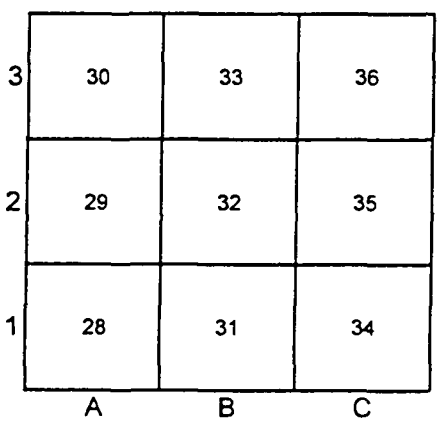
South Wall



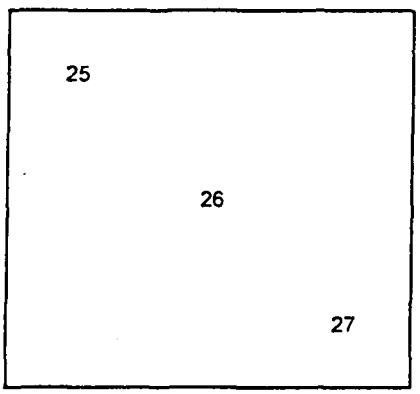
West Wall



North Wall



Floor



Ceiling

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
Affected Area	1A-A	1	-6	33	69	14	100	189	0	0	11	3	46	84
East Wall	1A-B	1	0	34	69	-4	99	189	ND	ND	ND	ND	ND	ND
Room 1	1A-C	1	-6	33	69	18	100	189	ND	ND	ND	ND	ND	ND
	1A-D	1	0	34	69	-14	98	189	ND	ND	ND	ND	ND	ND
	1A-Ce	1	0	34	69	14	100	189	ND	ND	ND	ND	ND	ND
	2A-A	1	11	38	69	11	100	189	0	0	11	-39	42	84
	2A-B	1	6	36	69	-18	98	189	ND	ND	ND	ND	ND	ND
	2A-C	1	-6	33	69	-39	96	189	ND	ND	ND	ND	ND	ND
	2A-D	1	0	34	69	39	102	189	ND	ND	ND	ND	ND	ND
	2A-Ce	1	-6	33	69	-4	99	189	ND	ND	ND	ND	ND	ND
	1B-A	1	-17	29	69	36	101	189	0	0	11	-5	46	84
	1B-B	1	-11	31	69	4	99	189	ND	ND	ND	ND	ND	ND
	1B-C	1	-6	33	69	-7	98	189	ND	ND	ND	ND	ND	ND
	1B-D	1	6	36	69	7	99	189	ND	ND	ND	ND	ND	ND
	1B-Ce	1	-22	27	69	39	102	189	ND	ND	ND	ND	ND	ND
	2B-A	1	6	36	69	-18	98	189	4	8	11	18	48	84
	2B-B	1	0	34	69	-43	96	189	ND	ND	ND	ND	ND	ND
	2B-C	1	0	34	69	18	100	189	ND	ND	ND	ND	ND	ND
	2B-D	1	-6	33	69	36	101	189	ND	ND	ND	ND	ND	ND
	2B-Ce	1	0	34	69	0	99	189	ND	ND	ND	ND	ND	ND
	3A-A	1	-6	33	69	25	101	189	0	0	11	-13	45	84

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	3A-B	1	-6	33	69	0	99	189	ND	ND	ND	ND	ND	ND
	3A-C	1	-6	33	69	-14	98	189	ND	ND	ND	ND	ND	ND
	3A-D	1	-6	33	69	29	101	189	ND	ND	ND	ND	ND	ND
	3A-Ce	1	-6	33	69	4	99	189	ND	ND	ND	ND	ND	ND
	3B-A	1	11	38	69	14	100	189	0	0	11	-8	45	84
	3B-B	1	-6	33	69	-14	98	189	ND	ND	ND	ND	ND	ND
	3B-C	1	-11	31	69	18	100	189	ND	ND	ND	ND	ND	ND
	3B-D	1	-6	33	69	29	101	189	ND	ND	ND	ND	ND	ND
	3B-Ce	1	22	41	69	54	103	189	ND	ND	ND	ND	ND	ND
Affected Area	1A-A	1	-22	27	69	25	101	189	0	0	11	29	49	84
South Wall	1A-B	1	-17	29	69	0	99	189	ND	ND	ND	ND	ND	ND
Room 1	1A-C	1	0	34	69	11	100	189	ND	ND	ND	ND	ND	ND
	1A-D	1	6	36	69	-11	98	189	ND	ND	ND	ND	ND	ND
	1A-Ce	1	6	36	69	14	100	189	ND	ND	ND	ND	ND	ND
	2A-A	1	0	34	69	64	103	189	0	0	11	-13	45	84
	2A-B	1	0	34	69	4	99	189	ND	ND	ND	ND	ND	ND
	2A-C	1	-11	31	69	107	106	189	ND	ND	ND	ND	ND	ND
	2A-D	1	17	39	69	18	100	189	ND	ND	ND	ND	ND	ND
	2A-Ce	1	-6	33	69	39	102	189	ND	ND	ND	ND	ND	ND
	1B-A	1	-6	33	69	7	99	189	0	0	11	3	46	84
	1B-B	1	-6	33	69	25	101	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1B-C	1	0	34	69	36	101	189	ND	ND	ND	ND	ND	ND
	1B-D	1	-6	33	69	21	100	189	ND	ND	ND	ND	ND	ND
	1B-Ce	1	0	34	69	18	100	189	ND	ND	ND	ND	ND	ND
	2B-A	1	0	34	69	64	103	189	0	0	11	18	48	84
	2B-B	1	6	36	69	18	100	189	ND	ND	ND	ND	ND	ND
	2B-C	1	17	39	69	-4	99	189	ND	ND	ND	ND	ND	ND
	2B-D	1	11	38	69	25	101	189	ND	ND	ND	ND	ND	ND
	2B-Ce	1	0	34	69	14	100	189	ND	ND	ND	ND	ND	ND
	3A-A	1	17	39	69	54	103	189	0	0	11	-13	45	84
	3A-B	1	6	36	69	71	104	189	ND	ND	ND	ND	ND	ND
	3A-C	1	11	38	69	36	101	189	ND	ND	ND	ND	ND	ND
	3A-D	1	6	36	69	-18	98	189	ND	ND	ND	ND	ND	ND
	3A-Ce	1	11	38	69	68	104	189	ND	ND	ND	ND	ND	ND
	3B-A	1	0	34	69	93	105	189	0	0	11	0	46	84
	3B-B	1	0	34	69	111	106	189	ND	ND	ND	ND	ND	ND
	3B-C	1	-6	33	69	4	99	189	ND	ND	ND	ND	ND	ND
	3B-D	1	0	34	69	61	103	189	ND	ND	ND	ND	ND	ND
	3B-Ce	1	0	34	69	0	99	189	ND	ND	ND	ND	ND	ND
Affected Area	1A-A	1	-6	33	69	29	101	189	0	0	11	-5	46	84
West Wall	1A-B	1	11	38	69	-4	99	189	ND	ND	ND	ND	ND	ND
Room 1	1A-C	1	6	36	69	32	101	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1A-D	1	6	36	69	57	103	189	ND	ND	ND	ND	ND	ND
	1A-Ce	1	0	34	69	71	104	189	ND	ND	ND	ND	ND	ND
	2A-A	1	0	34	69	54	103	189	0	0	11	5	47	84
	2A-B	1	6	36	69	29	101	189	ND	ND	ND	ND	ND	ND
	2A-C	1	6	36	69	18	100	189	ND	ND	ND	ND	ND	ND
	2A-D	1	17	39	69	68	104	189	ND	ND	ND	ND	ND	ND
	2A-Ce	1	-6	33	69	21	100	189	ND	ND	ND	ND	ND	ND
	1B-A	1	-6	33	69	89	105	189	0	0	11	-5	46	84
	1B-B	1	-6	33	69	32	101	189	ND	ND	ND	ND	ND	ND
	1B-C	1	0	34	69	100	106	189	ND	ND	ND	ND	ND	ND
	1B-D	1	0	34	69	4	99	189	ND	ND	ND	ND	ND	ND
	1B-Ce	1	-6	33	69	-18	98	189	ND	ND	ND	ND	ND	ND
	2B-A	1	-6	33	69	-21	97	189	0	0	11	3	46	84
	2B-B	1	-11	31	69	71	104	189	ND	ND	ND	ND	ND	ND
	2B-C	1	0	34	69	64	103	189	ND	ND	ND	ND	ND	ND
	2B-D	1	0	34	69	61	103	189	ND	ND	ND	ND	ND	ND
	2B-Ce	1	22	41	69	4	99	189	ND	ND	ND	ND	ND	ND
	3A-A	1	-11	31	69	71	104	189	0	0	11	-13	45	84
	3A-B	1	0	34	69	64	103	189	ND	ND	ND	ND	ND	ND
	3A-C	1	-6	33	69	18	100	189	ND	ND	ND	ND	ND	ND
	3A-D	1	-6	33	69	111	106	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	3A-Ce	1	22	41	69	71	104	189	ND	ND	ND	ND	ND	ND
	3B-A	1	6	36	69	7	99	189	0	0	11	-18	44	84
	3B-B	1	-6	33	69	39	102	189	ND	ND	ND	ND	ND	ND
	3B-C	1	0	34	69	79	104	189	ND	ND	ND	ND	ND	ND
	3B-D	1	0	34	69	64	103	189	ND	ND	ND	ND	ND	ND
	3B-Ce	1	-6	33	69	21	100	189	ND	ND	ND	ND	ND	ND
Affected Area	1A-A	1	11	38	69	36	101	189	0	0	11	32	49	84
North Wall	1A-B	1	6	36	69	25	101	189	ND	ND	ND	ND	ND	ND
Room 1	1A-C	1	11	38	69	93	105	189	ND	ND	ND	ND	ND	ND
	1A-D	1	11	38	69	75	104	189	ND	ND	ND	ND	ND	ND
	1A-Ce	1	-17	29	69	54	103	189	ND	ND	ND	ND	ND	ND
	2A-A	1	-22	27	69	43	102	189	0	0	11	-5	46	84
	2A-B	1	-11	31	69	-14	98	189	ND	ND	ND	ND	ND	ND
	2A-C	1	-17	29	69	64	103	189	ND	ND	ND	ND	ND	ND
	2A-D	1	-17	29	69	100	106	189	ND	ND	ND	ND	ND	ND
	2A-Ce	1	-6	33	69	68	104	189	ND	ND	ND	ND	ND	ND
	1B-A	1	6	36	69	96	105	[illegible]	0	0	11	5	47	84
	1B-B	1	6	36	69	32	101	[illegible]	ND	ND	ND	ND	ND	ND
	1B-C	1	11	38	69	61	103	189	ND	ND	ND	ND	ND	ND
	1B-D	1	0	34	69	21	100	189	ND	ND	ND	ND	ND	ND
	1B-Ce	1	-6	33	69	0	99	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1B-C	1	0	34	69	36	101	189	ND	ND	ND	ND	ND	ND
	1B-D	1	-6	33	69	21	100	189	ND	ND	ND	ND	ND	ND
	1B-Ce	1	0	34	69	18	100	189	ND	ND	ND	ND	ND	ND
	2B-A	1	0	34	69	64	103	189	0	0	11	18	48	84
	2B-B	1	6	36	69	18	100	189	ND	ND	ND	ND	ND	ND
	2B-C	1	17	39	69	-4	99	189	ND	ND	ND	ND	ND	ND
	2B-D	1	11	38	69	25	101	189	ND	ND	ND	ND	ND	ND
	2B-Ce	1	0	34	69	14	100	189	ND	ND	ND	ND	ND	ND
	3A-A	1	17	39	69	54	103	189	0	0	11	-13	45	84
	3A-B	1	6	36	69	71	104	189	ND	ND	ND	ND	ND	ND
	3A-C	1	11	38	69	36	101	189	ND	ND	ND	ND	ND	ND
	3A-D	1	6	36	69	-18	98	189	ND	ND	ND	ND	ND	ND
	3A-Ce	1	11	38	69	68	104	189	ND	ND	ND	ND	ND	ND
	3B-A	1	0	34	69	93	105	189	0	0	11	0	46	84
	3B-B	1	0	34	69	111	106	189	ND	ND	ND	ND	ND	ND
	3B-C	1	-6	33	69	4	99	189	ND	ND	ND	ND	ND	ND
	3B-D	1	0	34	69	61	103	189	ND	ND	ND	ND	ND	ND
	3B-Ce	1	0	34	69	0	99	189	ND	ND	ND	ND	ND	ND
Affected Area	1A-A	1	-6	33	69	29	101	189	0	0	11	-5	46	84
West Wall	1A-B	1	11	38	69	-4	99	189	ND	ND	ND	ND	ND	ND
Room 1	1A-C	1	6	36	69	32	101	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1A-D	1	6	36	69	57	103	189	ND	ND	ND	ND	ND	ND
	1A-Ce	1	0	34	69	71	104	189	ND	ND	ND	ND	ND	ND
	2A-A	1	0	34	69	54	103	189	0	0	11	5	47	84
	2A-B	1	6	36	69	29	101	189	ND	ND	ND	ND	ND	ND
	2A-C	1	6	36	69	18	100	189	ND	ND	ND	ND	ND	ND
	2A-D	1	17	39	69	68	104	189	ND	ND	ND	ND	ND	ND
	2A-Ce	1	-6	33	69	21	100	189	ND	ND	ND	ND	ND	ND
	1B-A	1	-6	33	69	89	105	189	0	0	11	-5	46	84
	1B-B	1	-6	33	69	32	101	189	ND	ND	ND	ND	ND	ND
	1B-C	1	0	34	69	100	106	189	ND	ND	ND	ND	ND	ND
	1B-D	1	0	34	69	4	99	189	ND	ND	ND	ND	ND	ND
	1B-Ce	1	-6	33	69	-18	98	189	ND	ND	ND	ND	ND	ND
	2B-A	1	-6	33	69	-21	97	189	0	0	11	3	46	84
	2B-B	1	-11	31	69	71	104	189	ND	ND	ND	ND	ND	ND
	2B-C	1	0	34	69	64	103	189	ND	ND	ND	ND	ND	ND
	2B-D	1	0	34	69	61	103	189	ND	ND	ND	ND	ND	ND
	2B-Ce	1	22	41	69	4	99	189	ND	ND	ND	ND	ND	ND
	3A-A	1	-11	31	69	71	104	189	0	0	11	-13	45	84
	3A-B	1	0	34	69	64	103	189	ND	ND	ND	ND	ND	ND
	3A-C	1	-6	33	69	18	100	189	ND	ND	ND	ND	ND	ND
	3A-D	1	-6	33	69	111	106	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	3A-Ce	1	22	41	69	71	104	189	ND	ND	ND	ND	ND	ND
	3B-A	1	6	36	69	7	99	189	0	0	11	-18	44	84
	3B-B	1	-6	33	69	39	102	189	ND	ND	ND	ND	ND	ND
	3B-C	1	0	34	69	79	104	189	ND	ND	ND	ND	ND	ND
	3B-D	1	0	34	69	64	103	189	ND	ND	ND	ND	ND	ND
	3B-Ce	1	-6	33	69	21	100	189	ND	ND	ND	ND	ND	ND
Affected Area	1A-A	1	11	38	69	36	101	189	0	0	11	32	49	84
North Wall	1A-B	1	6	36	69	25	101	189	ND	ND	ND	ND	ND	ND
Room 1	1A-C	1	11	38	69	93	105	189	ND	ND	ND	ND	ND	ND
	1A-D	1	11	38	69	75	104	189	ND	ND	ND	ND	ND	ND
	1A-Ce	1	-17	29	69	54	103	189	ND	ND	ND	ND	ND	ND
	2A-A	1	-22	27	69	43	102	189	0	0	11	-5	46	84
	2A-B	1	-11	31	69	-14	98	189	ND	ND	ND	ND	ND	ND
	2A-C	1	-17	29	69	64	103	189	ND	ND	ND	ND	ND	ND
	2A-D	1	-17	29	69	100	106	189	ND	ND	ND	ND	ND	ND
	2A-Ce	1	-6	33	69	68	104	189	ND	ND	ND	ND	ND	ND
	1B-A	1	6	36	69	96	105	[illegible]	0	0	11	5	47	84
	1B-B	1	6	36	69	32	101	[illegible]	ND	ND	ND	ND	ND	ND
	1B-C	1	11	38	69	61	103	189	ND	ND	ND	ND	ND	ND
	1B-D	1	0	34	69	21	100	189	ND	ND	ND	ND	ND	ND
	1B-Ce	1	-6	33	69	0	99	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	2B-A	1	0	34	69	-4	99	189	0	0	11	-8	45	84
	2B-B	1	0	34	69	-39	96	189	ND	ND	ND	ND	ND	ND
	2B-C	1	-6	33	69	32	101	189	ND	ND	ND	ND	ND	ND
	2B-D	1	-11	31	69	36	101	189	ND	ND	ND	ND	ND	ND
	2B-Ce	1	0	34	69	79	104	189	ND	ND	ND	ND	ND	ND
	3A-A	1	11	38	69	32	101	189	0	0	11	-18	44	84
	3A-B	1	17	39	69	18	100	189	ND	ND	ND	ND	ND	ND
	3A-C	1	11	38	69	7	99	189	ND	ND	ND	ND	ND	ND
	3A-D	1	394	98	69	0	99	189	ND	ND	ND	ND	ND	ND
	3A-Ce	1	6	36	69	46	102	189	ND	ND	ND	ND	ND	ND
	3B-A	1	-11	31	69	-14	98	189	0	0	11	-3	46	84
	3B-B	1	11	38	69	21	100	189	ND	ND	ND	ND	ND	ND
	3B-C	1	17	39	69	0	99	189	ND	ND	ND	ND	ND	ND
	3B-D	1	-6	33	69	46	102	189	ND	ND	ND	ND	ND	ND
	3B-Ce	1	6	36	69	4	99	189	ND	ND	ND	ND	ND	ND
Unaffected Area	25	1	6	36	69	14	100	189	0	0	11	3	46	84
Ceiling	26	1	-17	29	69	36	101	189	0	0	11	13	48	84
Room 1	27	1	17	39	69	46	102	189	0	0	11	26	49	84
Affected Area	1A-A	1	17	39	69	79	104	189	0	0	11	-32	43	84
Floor	1A-B	1	-11	31	69	39	102	189	ND	ND	ND	ND	ND	ND
Room 1	1A-C	1	0	34	69	21	100	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1A-D	1	-11	31	69	4	99	189	ND	ND	ND	ND	ND	ND
	1A-Ce	1	6	36	69	-4	99	189	ND	ND	ND	ND	ND	ND
	1B-A	1	6	36	69	43	102	189	0	0	11	-3	46	84
	1B-B	1	-11	31	69	29	101	189	ND	ND	ND	ND	ND	ND
	1B-C	1	-6	33	69	57	103	189	ND	ND	ND	ND	ND	ND
	1B-D	1	-6	33	69	-14	98	189	ND	ND	ND	ND	ND	ND
	1B-Ce	1	-6	33	69	18	100	189	ND	ND	ND	ND	ND	ND
	1C-A	1	-11	31	69	107	106	189	0	0	11	3	46	84
	1C-B	1	-17	29	69	96	105	189	ND	ND	ND	ND	ND	ND
	1C-C	1	-6	33	69	14	100	189	ND	ND	ND	ND	ND	ND
	1C-D	1	-11	31	69	-11	98	189	ND	ND	ND	ND	ND	ND
	1C-Ce	1	-17	29	69	21	100	189	ND	ND	ND	ND	ND	ND
	2A-A	1	6	36	69	75	104	189	0	0	11	26	49	84
	2A-B	1	-17	29	69	29	101	189	ND	ND	ND	ND	ND	ND
	2A-C	1	0	34	69	57	103	189	ND	ND	ND	ND	ND	ND
	2A-D	1	-17	29	69	-14	98	189	ND	ND	ND	ND	ND	ND
	2A-Ce	1	-6	33	69	0	99	189	ND	ND	ND	ND	ND	ND
	2B-A	1	6	36	69	89	105	189	0	0	11	-5	46	84
	2B-B	1	0	34	69	4	99	189	ND	ND	ND	ND	ND	ND
	2B-C	1	-6	33	69	-4	99	189	ND	ND	ND	ND	ND	ND
	2B-D	1	-6	33	69	111	106	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	2B-Ce	1	17	39	69	7	99	189	ND	ND	ND	ND	ND	ND
	2C-A	1	-6	33	69	100	106	189	0	0	11	-29	43	84
	2C-B	1	0	34	69	57	103	189	ND	ND	ND	ND	ND	ND
	2C-C	1	6	36	69	39	102	189	ND	ND	ND	ND	ND	ND
	2C-D	1	-6	33	69	0	99	189	ND	ND	ND	ND	ND	ND
	2C-Ce	1	22	41	69	21	100	189	ND	ND	ND	ND	ND	ND
	3A-A	1	11	38	69	68	104	189	4	8	11	-8	45	84
	3A-B	1	0	34	69	75	104	189	ND	ND	ND	ND	ND	ND
	3A-C	1	11	38	69	-43	96	189	ND	ND	ND	ND	ND	ND
	3A-D	1	6	36	69	107	106	189	ND	ND	ND	ND	ND	ND
	3A-Ce	1	0	34	69	54	103	189	ND	ND	ND	ND	ND	ND
	3B-A	1	-17	29	69	29	101	189	0	0	11	24	49	84
	3B-B	1	0	34	69	57	103	189	ND	ND	ND	ND	ND	ND
	3B-C	1	11	38	69	-4	99	189	ND	ND	ND	ND	ND	ND
	3B-D	1	0	34	69	7	99	189	ND	ND	ND	ND	ND	ND
	3B-Ce	1	6	36	69	-54	95	189	ND	ND	ND	ND	ND	ND
	3C-A	1	6	36	69	54	103	189	4	8	11	-3	46	84
	3C-B	1	-11	31	69	21	100	189	ND	ND	ND	ND	ND	ND
	3C-C	1	0	34	69	-18	98	189	ND	ND	ND	ND	ND	ND
	3C-D	1	-6	33	69	-43	96	189	ND	ND	ND	ND	ND	ND
	3C-Ce	1	11	38	69	25	101	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
Affected Area	1A-A	2	-17	36	69	0	95	189	0	0	11	-13	45	84
East Wall	1A-B	2	-6	39	69	32	98	189	ND	ND	ND	ND	ND	ND
Room 2	1A-C	2	-17	36	69	-21	94	189	ND	ND	ND	ND	ND	ND
	1A-D	2	-28	33	69	11	96	189	ND	ND	ND	ND	ND	ND
	1A-Ce	2	-17	36	69	18	97	189	ND	ND	ND	ND	ND	ND
	2A-A	2	0	41	69	7	96	189	0	0	11	13	48	84
	2A-B	2	-6	39	69	-14	94	189	ND	ND	ND	ND	ND	ND
	2A-C	2	0	41	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-D	2	-17	36	69	14	96	189	ND	ND	ND	ND	ND	ND
	2A-Ce	2	-28	33	69	0	95	189	ND	ND	ND	ND	ND	ND
	1B-A	2	6	42	69	4	96	189	0	0	11	-34	42	84
	1B-B	2	0	41	69	18	97	189	ND	ND	ND	ND	ND	ND
	1B-C	2	11	44	69	-18	94	189	ND	ND	ND	ND	ND	ND
	1B-D	2	-6	39	69	11	96	189	ND	ND	ND	ND	ND	ND
	1B-Ce	2	-11	38	69	25	97	189	ND	ND	ND	ND	ND	ND
	2B-A	2	-6	39	69	7	96	189	0	0	11	0	46	84
	2B-B	2	0	41	69	-11	95	189	ND	ND	ND	ND	ND	ND
	2B-C	2	0	41	69	4	96	189	ND	ND	ND	ND	ND	ND
	2B-D	2	-6	39	69	29	97	189	ND	ND	ND	ND	ND	ND
	2B-Ce	2	-11	38	69	11	96	189	ND	ND	ND	ND	ND	ND
	3A-A	2	-6	39	69	71	100	189	0	0	11	18	48	84

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	3A-B	2	-6	39	69	32	98	189	ND	ND	ND	ND	ND	ND
	3A-C	2	0	41	69	18	97	189	ND	ND	ND	ND	ND	ND
	3A-D	2	0	41	69	-7	95	189	ND	ND	ND	ND	ND	ND
	3A-Ce	2	0	41	69	0	95	189	ND	ND	ND	ND	ND	ND
	3B-A	2	6	42	69	-7	95	189	0	0	11	3	46	84
	3B-B	2	6	42	69	4	96	189	ND	ND	ND	ND	ND	ND
	3B-C	2	0	41	69	21	97	189	ND	ND	ND	ND	ND	ND
	3B-D	2	0	41	69	-18	94	189	ND	ND	ND	ND	ND	ND
	3B-Ce	2	-6	39	69	29	97	189	ND	ND	ND	ND	ND	ND
Affected Area South Wall Room 2	1A-A	2	0	41	69	18	97	189	0	0	11	-16	44	84
	1A-B	2	0	41	69	-11	95	189	ND	ND	ND	ND	ND	ND
	1A-C	2	-6	39	69	-14	94	189	ND	ND	ND	ND	ND	ND
	1A-D	2	0	41	69	32	98	189	ND	ND	ND	ND	ND	ND
	1A-Ce	2	6	42	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-A	2	-17	36	69	14	96	189	0	0	11	-13	45	84
	2A-B	2	0	41	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-C	2	-6	39	69	43	98	189	ND	ND	ND	ND	ND	ND
	2A-D	2	-11	38	69	-4	95	189	ND	ND	ND	ND	ND	ND
	2A-Ce	2	0	41	69	25	97	189	ND	ND	ND	ND	ND	ND
	1B-A	2	6	42	69	21	97	189	0	0	11	-8	45	84
	1B-B	2	6	42	69	32	98	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1B-C	2	11	44	69	-18	94	189	ND	ND	ND	ND	ND	ND
	1B-D	2	11	44	69	18	97	189	ND	ND	ND	ND	ND	ND
	1B-Ce	2	17	45	69	46	99	189	ND	ND	ND	ND	ND	ND
	2B-A	2	0	41	69	21	97	189	4	8	11	-16	44	84
	2B-B	2	6	42	69	-29	93	189	ND	ND	ND	ND	ND	ND
	2B-C	2	0	41	69	32	98	189	ND	ND	ND	ND	ND	ND
	2B-D	2	-6	39	69	25	97	189	ND	ND	ND	ND	ND	ND
	2B-Ce	2	-11	38	69	29	97	189	ND	ND	ND	ND	ND	ND
	3A-A	2	-17	36	69	18	97	189	0	0	11	-11	45	84
	3A-B	2	-17	36	69	57	99	189	ND	ND	ND	ND	ND	ND
	3A-C	2	-11	38	69	-21	94	189	ND	ND	ND	ND	ND	ND
	3A-D	2	-6	39	69	18	97	189	ND	ND	ND	ND	ND	ND
	3A-Ce	2	0	41	69	7	96	189	ND	ND	ND	ND	ND	ND
	3B-A	2	6	42	69	14	96	189	0	0	11	-11	45	84
	3B-B	2	11	44	69	39	98	189	ND	ND	ND	ND	ND	ND
	3B-C	2	11	44	69	64	100	189	ND	ND	ND	ND	ND	ND
	3B-D	2	6	42	69	-21	94	189	ND	ND	ND	ND	ND	ND
	3B-Ce	2	0	41	69	4	96	189	ND	ND	ND	ND	ND	ND
Affected Area	1A-A	2	6	42	69	11	96	189	0	0	11	-24	43	84
West Wall	1A-B	2	0	41	69	18	97	189	ND	ND	ND	ND	ND	ND
Room 2	1A-C	2	0	41	69	39	98	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1A-D	2	6	42	69	7	96	189	ND	ND	ND	ND	ND	ND
	1A-Ce	2	11	44	69	-11	95	189	ND	ND	ND	ND	ND	ND
	2A-A	2	17	45	69	-14	94	189	0	0	11	-16	44	84
	2A-B	2	17	45	69	46	99	189	ND	ND	ND	ND	ND	ND
	2A-C	2	22	46	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-D	2	28	47	69	18	97	189	ND	ND	ND	ND	ND	ND
	2A-Ce	2	28	47	69	14	96	189	ND	ND	ND	ND	ND	ND
	1B-A	2	33	49	69	21	97	189	0	0	11	-24	43	84
	1B-B	2	17	45	69	36	98	189	ND	ND	ND	ND	ND	ND
	1B-C	2	11	44	69	54	99	189	ND	ND	ND	ND	ND	ND
	1B-D	2	0	41	69	82	101	189	ND	ND	ND	ND	ND	ND
	1B-Ce	2	11	44	69	-18	94	189	ND	ND	ND	ND	ND	ND
	2B-A	2	17	45	69	39	98	189	0	0	11	-24	43	84
	2B-B	2	17	45	69	-311	70	189	ND	ND	ND	ND	ND	ND
	2B-C	2	17	45	69	4	96	189	ND	ND	ND	ND	ND	ND
	2B-D	2	11	44	69	0	95	189	ND	ND	ND	ND	ND	ND
	2B-Ce	2	6	42	69	-4	95	189	ND	ND	ND	ND	ND	ND
	3A-A	2	6	42	69	29	97	189	0	0	11	-11	45	84
	3A-B	2	17	45	69	18	97	189	ND	ND	ND	ND	ND	ND
	3A-C	2	17	45	69	-43	92	189	ND	ND	ND	ND	ND	ND
	3A-D	2	17	45	69	39	98	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	3A-Ce	2	17	45	69	25	97	189	ND	ND	ND	ND	ND	ND
	3B-A	2	17	45	69	14	96	189	0	0	11	-11	45	84
	3B-B	2	11	44	69	18	97	189	ND	ND	ND	ND	ND	ND
	3B-C	2	11	44	69	36	98	189	ND	ND	ND	ND	ND	ND
	3B-D	2	6	42	69	21	97	189	ND	ND	ND	ND	ND	ND
	3B-Ce	2	6	42	69	-18	94	189	ND	ND	ND	ND	ND	ND
Affected Area North Wall Room 2	1A-A	2	11	44	69	46	99	189	0	0	11	16	48	84
	1A-B	2	17	45	69	7	96	189	ND	ND	ND	ND	ND	ND
	1A-C	2	11	44	69	-14	94	189	ND	ND	ND	ND	ND	ND
	1A-D	2	11	44	69	36	98	189	ND	ND	ND	ND	ND	ND
	1A-Ce	2	6	42	69	-32	93	189	ND	ND	ND	ND	ND	ND
	2A-A	2	17	45	69	21	97	189	0	0	11	26	49	84
	2A-B	2	6	42	69	11	96	189	ND	ND	ND	ND	ND	ND
	2A-C	2	11	44	69	4	96	189	ND	ND	ND	ND	ND	ND
	2A-D	2	11	44	69	29	97	189	ND	ND	ND	ND	ND	ND
	2A-Ce	2	11	44	69	32	98	189	ND	ND	ND	ND	ND	ND
	1B-A	2	6	42	69	18	97	189	0	0	11	-11	45	84
	1B-B	2	17	45	69	4	96	189	ND	ND	ND	ND	ND	ND
	1B-C	2	17	45	69	25	97	189	ND	ND	ND	ND	ND	ND
	1B-D	2	17	45	69	36	98	189	ND	ND	ND	ND	ND	ND
	1B-Ce	2	22	46	69	11	96	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	2B-A	2	33	49	69	14	96	189	0	0	11	21	48	84
	2B-B	2	28	47	69	18	97	189	ND	ND	ND	ND	ND	ND
	2B-C	2	6	42	69	46	99	189	ND	ND	ND	ND	ND	ND
	2B-D	2	6	42	69	25	97	189	ND	ND	ND	ND	ND	ND
	2B-Ce	2	6	42	69	14	96	189	ND	ND	ND	ND	ND	ND
	3A-A	2	11	44	69	4	96	189	0	0	11	0	46	84
	3A-B	2	17	45	69	-18	94	189	ND	ND	ND	ND	ND	ND
	3A-C	2	22	46	69	-4	95	189	ND	ND	ND	ND	ND	ND
	3A-D	2	28	47	69	7	96	189	ND	ND	ND	ND	ND	ND
	3A-Ce	2	33	49	69	36	98	189	ND	ND	ND	ND	ND	ND
	3B-A	2	33	49	69	29	97	189	0	0	11	5	47	84
	3B-B	2	28	47	69	11	96	189	ND	ND	ND	ND	ND	ND
	3B-C	2	17	45	69	-4	95	189	ND	ND	ND	ND	ND	ND
	3B-D	2	17	45	69	25	97	189	ND	ND	ND	ND	ND	ND
	3B-Ce	2	11	44	69	0	95	189	ND	ND	ND	ND	ND	ND
Unaffected Area	B1	2	6	42	69	61	100	189	[illegible]	[illegible]	11	-18	44	84
Ceiling	B2	2	6	42	69	46	99	189	0	0	11	-34	42	84
Room 2	B3	2	6	42	69	29	97	189	0	0	11	-11	45	84
Affected Area	1A-A	2	11	44	69	46	99	189	0	0	11	-5	46	84
Floor	1A-B	2	11	44	69	4	96	189	ND	ND	ND	ND	ND	ND
Room 2	1A-C	2	-6	39	69	-11	95	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1A-D	2	0	41	69	-7	95	189	ND	ND	ND	ND	ND	ND
	1A-Ce	2	0	41	69	-18	94	189	ND	ND	ND	ND	ND	ND
	1B-A	2	-11	38	69	36	98	189	0	0	11	32	49	84
	1B-B	2	-11	38	69	29	97	189	ND	ND	ND	ND	ND	ND
	1B-C	2	-17	36	69	25	97	189	ND	ND	ND	ND	ND	ND
	1B-D	2	-17	36	69	14	96	189	ND	ND	ND	ND	ND	ND
	1B-Ce	2	-33	31	69	11	96	189	ND	ND	ND	ND	ND	ND
	1C-A	2	6	42	69	-14	94	189	0	0	11	5	47	84
	1C-B	2	0	41	69	-36	93	189	ND	ND	ND	ND	ND	ND
	1C-C	2	-6	39	69	61	100	189	ND	ND	ND	ND	ND	ND
	1C-D	2	0	41	69	46	99	189	ND	ND	ND	ND	ND	ND
	1C-Ce	2	6	42	69	36	98	189	ND	ND	ND	ND	ND	ND
	2A-A	2	6	42	69	29	97	189	0	0	11	21	48	84
	2A-B	2	11	44	69	29	97	189	ND	ND	ND	ND	ND	ND
	2A-C	2	11	44	69	7	96	189	ND	ND	ND	ND	ND	ND
	2A-D	2	17	45	69	18	97	189	ND	ND	ND	ND	ND	ND
	2A-Ce	2	17	45	69	14	96	189	ND	ND	ND	ND	ND	ND
	2B-A	2	22	46	69	-4	95	189	0	0	11	3	46	84
	2B-B	2	28	47	69	-7	95	189	ND	ND	ND	ND	ND	ND
	2B-C	2	33	49	69	4	96	189	ND	ND	ND	ND	ND	ND
	2B-D	2	33	49	69	54	99	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	2B-Ce	2	28	47	69	50	99	189	ND	ND	ND	ND	ND	ND
	2C-A	2	22	46	69	68	100	189	8	11	11	39	50	84
	2C-B	2	22	46	69	36	98	189	ND	ND	ND	ND	ND	ND
	2C-C	2	11	44	69	14	96	189	ND	ND	ND	ND	ND	ND
	2C-D	2	11	44	69	4	96	189	ND	ND	ND	ND	ND	ND
	2C-Ce	2	11	44	69	0	95	189	ND	ND	ND	ND	ND	ND
	3A-A	2	0	41	69	21	97	189	0	0	11	3	46	84
	3A-B	2	0	41	69	36	98	189	ND	ND	ND	ND	ND	ND
	3A-C	2	-22	34	69	-14	94	189	ND	ND	ND	ND	ND	ND
	3A-D	2	-22	34	69	68	100	189	ND	ND	ND	ND	ND	ND
	3A-Ce	2	-17	36	69	36	98	189	ND	ND	ND	ND	ND	ND
	3B-A	2	-11	38	69	-14	94	189	0	0	11	-3	46	84
	3B-B	2	-11	38	69	43	98	189	ND	ND	ND	ND	ND	ND
	3B-C	2	-17	36	69	50	99	189	ND	ND	ND	ND	ND	ND
	3B-D	2	-17	36	69	25	97	189	ND	ND	ND	ND	ND	ND
	3B-Ce	2	0	41	69	11	96	189	ND	ND	ND	ND	ND	ND
	3C-A	2	0	41	69	7	96	189	[illegible]	[illegible]	11	18	48	84
	3C-B	2	6	42	69	-7	95	189	ND	ND	ND	ND	ND	ND
	3C-C	2	17	45	69	-18	94	189	ND	ND	ND	ND	ND	ND
	3C-D	2	17	45	69	14	96	189	ND	ND	ND	ND	ND	ND
	3C-Ce	2	11	44	69	18	97	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
Affected Area	1A-A	3	39	36	69	43	98	189	0	0	11	34	50	84
East Wall	1A-B	3	0	22	69	18	96	189	ND	ND	ND	ND	ND	ND
Room 3	1A-C	3	22	31	69	-14	94	189	ND	ND	ND	ND	ND	ND
	1A-D	3	17	29	69	100	102	189	ND	ND	ND	ND	ND	ND
	1A-Ce	3	33	34	69	493	126	189	ND	ND	ND	ND	ND	ND
	2A-A	3	11	27	69	-11	94	189	0	0	11	-39	42	84
	2A-B	3	22	31	69	14	96	189	ND	ND	ND	ND	ND	ND
	2A-C	3	28	33	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-D	3	39	36	69	39	98	189	ND	ND	ND	ND	ND	ND
	2A-Ce	3	22	31	69	64	99	189	ND	ND	ND	ND	ND	ND
	1B-A	3	22	31	69	25	97	189	0	0	11	13	48	84
	1B-B	3	28	33	69	4	95	189	ND	ND	ND	ND	ND	ND
	1B-C	3	33	34	69	-7	94	189	ND	ND	ND	ND	ND	ND
	1B-D	3	44	38	69	50	98	189	ND	ND	ND	ND	ND	ND
	1B-Ce	3	17	29	69	21	96	189	ND	ND	ND	ND	ND	ND
	2B-A	3	22	31	69	64	99	189	0	0	11	-37	42	84
	2B-B	3	22	31	69	39	98	189	ND	ND	ND	ND	ND	ND
	2B-C	3	28	33	69	-11	94	189	ND	ND	ND	ND	ND	ND
	2B-D	3	33	34	69	14	96	189	ND	ND	ND	ND	ND	ND
	2B-Ce	3	33	34	69	18	96	189	ND	ND	ND	ND	ND	ND
	3A-A	3	22	31	69	43	98	189	0	0	11	8	47	84

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	3A-B	3	50	39	69	54	99	189	ND	ND	ND	ND	ND	ND
	3A-C	3	44	38	69	0	95	189	ND	ND	ND	ND	ND	ND
	3A-D	3	28	33	69	39	98	189	ND	ND	ND	ND	ND	ND
	3A-Ce	3	39	36	69	29	97	189	ND	ND	ND	ND	ND	ND
	3B-A	3	33	34	69	21	96	189	0	0	11	-3	46	84
	3B-B	3	17	29	69	39	98	189	ND	ND	ND	ND	ND	ND
	3B-C	3	28	33	69	43	98	189	ND	ND	ND	ND	ND	ND
	3B-D	3	17	29	69	46	98	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	11	27	69	25	97	189	ND	ND	ND	ND	ND	ND
Affected Area South Wall Room 3	1A-A	3	11	27	69	39	98	189	0	0	11	24	49	84
	1A-B	3	39	36	69	32	97	189	ND	ND	ND	ND	ND	ND
	1A-C	3	33	34	69	14	96	189	ND	ND	ND	ND	ND	ND
	1A-D	3	22	31	69	4	95	189	ND	ND	ND	ND	ND	ND
	1A-Ce	3	28	33	69	29	97	189	ND	ND	ND	ND	ND	ND
	2A-A	3	17	29	69	39	98	189	0	0	11	-45	41	84
	2A-B	3	17	29	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-C	3	0	22	69	61	99	189	ND	ND	ND	ND	ND	ND
	2A-D	3	6	24	69	79	100	189	ND	ND	ND	ND	ND	ND
	2A-Ce	3	11	27	69	-14	94	189	ND	ND	ND	ND	ND	ND
	1B-A	3	11	27	69	36	97	189	0	0	11	-24	43	84
	1B-B	3	11	27	69	29	97	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1B-C	3	17	29	69	46	98	189	ND	ND	ND	ND	ND	ND
	1B-D	3	22	31	69	64	99	189	ND	ND	ND	ND	ND	ND
	1B-Ce	3	28	33	69	82	101	189	ND	ND	ND	ND	ND	ND
	2B-A	3	28	33	69	-18	94	189	0	0	11	-3	46	84
	2B-B	3	28	33	69	18	96	189	ND	ND	ND	ND	ND	ND
	2B-C	3	33	34	69	7	95	189	ND	ND	ND	ND	ND	ND
	2B-D	3	39	36	69	25	97	189	ND	ND	ND	ND	ND	ND
	2B-Ce	3	39	36	69	39	98	189	ND	ND	ND	ND	ND	ND
	3A-A	3	44	38	69	121	103	189	4	8	11	13	48	84
	3A-B	3	44	38	69	82	101	189	ND	ND	ND	ND	ND	ND
	3A-C	3	50	39	69	57	99	189	ND	ND	ND	ND	ND	ND
	3A-D	3	56	41	69	96	102	189	ND	ND	ND	ND	ND	ND
	3A-Ce	3	44	38	69	39	98	189	ND	ND	ND	ND	ND	ND
	3B-A	3	33	34	69	32	97	189	0	0	11	-3	46	84
	3B-B	3	28	33	69	21	96	189	ND	ND	ND	ND	ND	ND
	3B-C	3	28	33	69	14	96	189	ND	ND	ND	ND	ND	ND
	3B-D	3	22	31	69	36	97	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	22	31	69	29	97	189	ND	ND	ND	ND	ND	ND
Affected Area West Wall Room 3	1A-A	3	17	29	69	93	101	189	0	0	11	-11	45	84
	1A-B	3	22	31	69	143	105	189	ND	ND	ND	ND	ND	ND
	1A-C	3	28	33	69	54	99	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	3A-Ce	3	0	22	69	7	95	189	ND	ND	ND	ND	ND	ND
	3B-A	3	6	24	69	21	96	189	0	0	11	13	48	84
	3B-B	3	17	29	69	18	96	189	ND	ND	ND	ND	ND	ND
	3B-C	3	28	33	69	54	99	189	ND	ND	ND	ND	ND	ND
	3B-D	3	28	33	69	43	98	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	22	31	69	64	99	189	ND	ND	ND	ND	ND	ND
Affected Area	1A-A	3	22	31	69	50	98	189	0	0	11	-26	43	84
North Wall	1A-B	3	17	29	69	21	96	189	ND	ND	ND	ND	ND	ND
Room 3	1A-C	3	44	38	69	32	97	189	ND	ND	ND	ND	ND	ND
	1A-D	3	39	36	69	64	99	189	ND	ND	ND	ND	ND	ND
	1A-Ce	3	17	29	69	57	99	189	ND	ND	ND	ND	ND	ND
	2A-A	3	50	39	69	18	96	189	0	0	11	-16	44	84
	2A-B	3	39	36	69	-11	94	189	ND	ND	ND	ND	ND	ND
	2A-C	3	28	33	69	-4	95	189	ND	ND	ND	ND	ND	ND
	2A-D	3	22	31	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-Ce	3	22	31	69	50	98	189	ND	ND	ND	ND	ND	ND
	1B-A	3	22	31	69	71	100	189	0	0	11	-11	45	84
	1B-B	3	17	29	69	46	98	189	ND	ND	ND	ND	ND	ND
	1B-C	3	17	29	69	11	96	189	ND	ND	ND	ND	ND	ND
	1B-D	3	17	29	69	4	95	189	ND	ND	ND	ND	ND	ND
	1B-Ce	3	17	29	69	18	96	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	2B-A	3	17	29	69	54	99	189	4	8	11	-5	46	84
	2B-B	3	17	29	69	75	100	189	ND	ND	ND	ND	ND	ND
	2B-C	3	6	24	69	43	98	189	ND	ND	ND	ND	ND	ND
	2B-D	3	0	22	69	68	100	189	ND	ND	ND	ND	ND	ND
	2B-Ce	3	44	38	69	-18	94	189	ND	ND	ND	ND	ND	ND
	3A-A	3	39	36	69	50	98	189	0	0	11	0	46	84
	3A-B	3	33	34	69	79	100	189	ND	ND	ND	ND	ND	ND
	3A-C	3	33	34	69	11	96	189	ND	ND	ND	ND	ND	ND
	3A-D	3	22	31	69	7	95	189	ND	ND	ND	ND	ND	ND
	3A-Ce	3	17	29	69	57	99	189	ND	ND	ND	ND	ND	ND
	3B-A	3	17	29	69	86	101	189	4	8	11	-3	46	84
	3B-B	3	11	27	69	104	102	189	ND	ND	ND	ND	ND	ND
	3B-C	3	11	27	69	57	99	189	ND	ND	ND	ND	ND	ND
	3B-D	3	17	29	69	21	96	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	17	29	69	39	98	189	ND	ND	ND	ND	ND	ND
Unaffected Area	B1	3	22	31	69	164	106	189	0	0	11	0	46	84
Ceiling	B2	3	22	31	69	93	101	189	4	8	11	-13	45	84
Room 3	B3	3	22	31	69	36	97	189	0	0	11	-37	42	84
Affected Area	1A-A	3	28	33	69	79	100	189	0	0	11	-29	43	84
Floor	1A-B	3	33	34	69	25	97	189	ND	ND	ND	ND	ND	ND
Room 3	1A-C	3	-6	19	69	36	97	189	ND	ND	ND	ND	ND	ND

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	2B-Ce	3	22	31	69	18	96	189	ND	ND	ND	ND	ND	ND
	2C-A	3	22	31	69	-4	95	189	0	0	11	3	46	84
	2C-B	3	28	33	69	61	99	189	ND	ND	ND	ND	ND	ND
	2C-C	3	28	33	69	43	98	189	ND	ND	ND	ND	ND	ND
	2C-D	3	28	33	69	50	98	189	ND	ND	ND	ND	ND	ND
	2C-Ce	3	0	22	69	57	99	189	ND	ND	ND	ND	ND	ND
	3A-A	3	22	31	69	64	99	189	4	8	11	0	46	84
	3A-B	3	22	31	69	96	102	189	ND	ND	ND	ND	ND	ND
	3A-C	3	17	29	69	43	98	189	ND	ND	ND	ND	ND	ND
	3A-D	3	17	29	69	18	96	189	ND	ND	ND	ND	ND	ND
	3A-Ce	3	11	27	69	57	99	189	ND	ND	ND	ND	ND	ND
	3B-A	3	11	27	69	86	101	189	0	0	11	-13	45	84
	3B-B	3	0	22	69	107	102	189	ND	ND	ND	ND	ND	ND
	3B-C	3	0	22	69	57	99	189	ND	ND	ND	ND	ND	ND
	3B-D	3	22	31	69	82	101	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	22	31	69	39	98	189	ND	ND	ND	ND	ND	ND
	3C-A	3	22	31	69	29	97	189	0	0	11	-11	45	84
	3C-B	3	22	31	69	57	99	189	ND	ND	ND	ND	ND	ND
	3C-C	3	28	33	69	61	99	189	ND	ND	ND	ND	ND	ND
	3C-D	3	33	34	69	75	100	189	ND	ND	ND	ND	ND	ND
	3C-Ce	3	33	34	69	4	95	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
Exterior	1	4	17	29	69	114	103	189	0	0	11	26	46	84
	2	4	33	34	69	129	104	189	0	0	11	108	33	84
	3	4	56	41	69	182	107	189	0	0	11	111	33	84
	4	4	44	38	69	43	98	189	0	0	11	126	36	84
	5	4	61	42	69	86	101	189	0	0	11	124	35	84
	6	4	56	41	69	43	98	189	4	8	11	103	32	84
	7	4	50	39	69	18	96	189	0	0	11	92	31	84
	8	4	22	31	69	64	99	189	4	8	11	89	30	84
	9	4	28	33	69	54	99	189	0	0	11	95	31	84
	10	4	17	29	69	14	96	189	4	8	11	74	27	84
	11	4	17	29	69	46	98	189	0	0	11	63	25	84
	12	4	33	34	69	50	98	189	8	11	11	76	28	84
	13	4	22	31	69	-29	93	189	0	0	11	68	26	84
	14	4	22	31	69	75	100	189	0	0	11	92	31	84
	15	4	28	33	69	50	98	189	0	0	11	100	32	84
	16	4	50	39	69	43	98	189	4	8	11	134	37	84
	17	4	33	34	69	118	103	189	0	0	11	92	31	84
	18	4	17	29	69	4	95	189	8	11	11	92	31	84
	19	4	17	29	69	79	100	189	4	8	11	95	31	84
	20	4	50	39	69	129	104	189	0	0	11	95	31	84
	21	4	61	42	69	100	102	189	0	0	11	97	31	84

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Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
Affected Area	1A-A	3	39	36	69	43	98	189	0	0	11	34	50	84
East Wall	1A-B	3	0	22	69	18	96	189	ND	ND	ND	ND	ND	ND
Room 3	1A-C	3	22	31	69	-14	94	189	ND	ND	ND	ND	ND	ND
	1A-D	3	17	29	69	100	102	189	ND	ND	ND	ND	ND	ND
	1A-Ce	3	33	34	69	493	126	189	ND	ND	ND	ND	ND	ND
	2A-A	3	11	27	69	-11	94	189	0	0	11	-39	42	84
	2A-B	3	22	31	69	14	96	189	ND	ND	ND	ND	ND	ND
	2A-C	3	28	33	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-D	3	39	36	69	39	98	189	ND	ND	ND	ND	ND	ND
	2A-Ce	3	22	31	69	64	99	189	ND	ND	ND	ND	ND	ND
	1B-A	3	22	31	69	25	97	189	0	0	11	13	48	84
	1B-B	3	28	33	69	4	95	189	ND	ND	ND	ND	ND	ND
	1B-C	3	33	34	69	-7	94	189	ND	ND	ND	ND	ND	ND
	1B-D	3	44	38	69	50	98	189	ND	ND	ND	ND	ND	ND
	1B-Ce	3	17	29	69	21	96	189	ND	ND	ND	ND	ND	ND
	2B-A	3	22	31	69	64	99	189	0	0	11	-37	42	84
	2B-B	3	22	31	69	39	98	189	ND	ND	ND	ND	ND	ND
	2B-C	3	28	33	69	-11	94	189	ND	ND	ND	ND	ND	ND
	2B-D	3	33	34	69	14	96	189	ND	ND	ND	ND	ND	ND
	2B-Ce	3	33	34	69	18	96	189	ND	ND	ND	ND	ND	ND
	3A-A	3	22	31	69	43	98	189	0	0	11	8	47	84

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	3A-B	3	50	39	69	54	99	189	ND	ND	ND	ND	ND	ND
	3A-C	3	44	38	69	0	95	189	ND	ND	ND	ND	ND	ND
	3A-D	3	28	33	69	39	98	189	ND	ND	ND	ND	ND	ND
	3A-Ce	3	39	36	69	29	97	189	ND	ND	ND	ND	ND	ND
	3B-A	3	33	34	69	21	96	189	0	0	11	-3	46	84
	3B-B	3	17	29	69	39	98	189	ND	ND	ND	ND	ND	ND
	3B-C	3	28	33	69	43	98	189	ND	ND	ND	ND	ND	ND
	3B-D	3	17	29	69	46	98	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	11	27	69	25	97	189	ND	ND	ND	ND	ND	ND
Affected Area South Wall Room 3	1A-A	3	11	27	69	39	98	189	0	0	11	24	49	84
	1A-B	3	39	36	69	32	97	189	ND	ND	ND	ND	ND	ND
	1A-C	3	33	34	69	14	96	189	ND	ND	ND	ND	ND	ND
	1A-D	3	22	31	69	4	95	189	ND	ND	ND	ND	ND	ND
	1A-Ce	3	28	33	69	29	97	189	ND	ND	ND	ND	ND	ND
	2A-A	3	17	29	69	39	98	189	0	0	11	-45	41	84
	2A-B	3	17	29	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-C	3	0	22	69	61	99	189	ND	ND	ND	ND	ND	ND
	2A-D	3	6	24	69	79	100	189	ND	ND	ND	ND	ND	ND
	2A-Ce	3	11	27	69	-14	94	189	ND	ND	ND	ND	ND	ND
	1B-A	3	11	27	69	36	97	189	0	0	11	-24	43	84
	1B-B	3	11	27	69	29	97	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1B-C	3	17	29	69	46	98	189	ND	ND	ND	ND	ND	ND
	1B-D	3	22	31	69	64	99	189	ND	ND	ND	ND	ND	ND
	1B-Ce	3	28	33	69	82	101	189	ND	ND	ND	ND	ND	ND
	2B-A	3	28	33	69	-18	94	189	0	0	11	-3	46	84
	2B-B	3	28	33	69	18	96	189	ND	ND	ND	ND	ND	ND
	2B-C	3	33	34	69	7	95	189	ND	ND	ND	ND	ND	ND
	2B-D	3	39	36	69	25	97	189	ND	ND	ND	ND	ND	ND
	2B-Ce	3	39	36	69	39	98	189	ND	ND	ND	ND	ND	ND
	3A-A	3	44	38	69	121	103	189	4	8	11	13	48	84
	3A-B	3	44	38	69	82	101	189	ND	ND	ND	ND	ND	ND
	3A-C	3	50	39	69	57	99	189	ND	ND	ND	ND	ND	ND
	3A-D	3	56	41	69	96	102	189	ND	ND	ND	ND	ND	ND
	3A-Ce	3	44	38	69	39	98	189	ND	ND	ND	ND	ND	ND
	3B-A	3	33	34	69	32	97	189	0	0	11	-3	46	84
	3B-B	3	28	33	69	21	96	189	ND	ND	ND	ND	ND	ND
	3B-C	3	28	33	69	14	96	189	ND	ND	ND	ND	ND	ND
	3B-D	3	22	31	69	36	97	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	22	31	69	29	97	189	ND	ND	ND	ND	ND	ND
Affected Area West Wall Room 3	1A-A	3	17	29	69	93	101	189	0	0	11	-11	45	84
	1A-B	3	22	31	69	143	105	189	ND	ND	ND	ND	ND	ND
	1A-C	3	28	33	69	54	99	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1A-D	3	28	33	69	82	101	189	ND	ND	ND	ND	ND	ND
	1A-Ce	3	11	27	69	39	98	189	ND	ND	ND	ND	ND	ND
	2A-A	3	6	24	69	25	97	189	0	0	11	-13	45	84
	2A-B	3	11	27	69	36	97	189	ND	ND	ND	ND	ND	ND
	2A-C	3	17	29	69	32	97	189	ND	ND	ND	ND	ND	ND
	2A-D	3	22	31	69	21	96	189	ND	ND	ND	ND	ND	ND
	2A-Ce	3	28	33	69	-18	94	189	ND	ND	ND	ND	ND	ND
	1B-A	3	28	33	69	71	100	189	0	0	11	-11	45	84
	1B-B	3	33	34	69	46	98	189	ND	ND	ND	ND	ND	ND
	1B-C	3	33	34	69	79	100	189	ND	ND	ND	ND	ND	ND
	1B-D	3	33	34	69	68	100	189	ND	ND	ND	ND	ND	ND
	1B-Ce	3	33	34	69	57	99	189	ND	ND	ND	ND	ND	ND
	2B-A	3	28	33	69	7	95	189	0	0	11	16	48	84
	2B-B	3	22	31	69	4	95	189	ND	ND	ND	ND	ND	ND
	2B-C	3	22	31	69	50	98	189	ND	ND	ND	ND	ND	ND
	2B-D	3	22	31	69	71	100	189	ND	ND	ND	ND	ND	ND
	2B-Ce	3	22	31	69	93	101	189	ND	ND	ND	ND	ND	ND
	3A-A	3	17	29	69	104	102	189	0	0	11	24	49	84
	3A-B	3	6	24	69	71	100	189	ND	ND	ND	ND	ND	ND
	3A-C	3	6	24	69	-18	94	189	ND	ND	ND	ND	ND	ND
	3A-D	3	0	22	69	39	98	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	3A-Ce	3	0	22	69	7	95	189	ND	ND	ND	ND	ND	ND
	3B-A	3	6	24	69	21	96	189	0	0	11	13	48	84
	3B-B	3	17	29	69	18	96	189	ND	ND	ND	ND	ND	ND
	3B-C	3	28	33	69	54	99	189	ND	ND	ND	ND	ND	ND
	3B-D	3	28	33	69	43	98	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	22	31	69	64	99	189	ND	ND	ND	ND	ND	ND
Affected Area	1A-A	3	22	31	69	50	98	189	0	0	11	-26	43	84
North Wall	1A-B	3	17	29	69	21	96	189	ND	ND	ND	ND	ND	ND
Room 3	1A-C	3	44	38	69	32	97	189	ND	ND	ND	ND	ND	ND
	1A-D	3	39	36	69	64	99	189	ND	ND	ND	ND	ND	ND
	1A-Ce	3	17	29	69	57	99	189	ND	ND	ND	ND	ND	ND
	2A-A	3	50	39	69	18	96	189	0	0	11	-16	44	84
	2A-B	3	39	36	69	-11	94	189	ND	ND	ND	ND	ND	ND
	2A-C	3	28	33	69	-4	95	189	ND	ND	ND	ND	ND	ND
	2A-D	3	22	31	69	25	97	189	ND	ND	ND	ND	ND	ND
	2A-Ce	3	22	31	69	50	98	189	ND	ND	ND	ND	ND	ND
	1B-A	3	22	31	69	71	100	189	0	0	11	-11	45	84
	1B-B	3	17	29	69	46	98	189	ND	ND	ND	ND	ND	ND
	1B-C	3	17	29	69	11	96	189	ND	ND	ND	ND	ND	ND
	1B-D	3	17	29	69	4	95	189	ND	ND	ND	ND	ND	ND
	1B-Ce	3	17	29	69	18	96	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	2B-A	3	17	29	69	54	99	189	4	8	11	-5	46	84
	2B-B	3	17	29	69	75	100	189	ND	ND	ND	ND	ND	ND
	2B-C	3	6	24	69	43	98	189	ND	ND	ND	ND	ND	ND
	2B-D	3	0	22	69	68	100	189	ND	ND	ND	ND	ND	ND
	2B-Ce	3	44	38	69	-18	94	189	ND	ND	ND	ND	ND	ND
	3A-A	3	39	36	69	50	98	189	0	0	11	0	46	84
	3A-B	3	33	34	69	79	100	189	ND	ND	ND	ND	ND	ND
	3A-C	3	33	34	69	11	96	189	ND	ND	ND	ND	ND	ND
	3A-D	3	22	31	69	7	95	189	ND	ND	ND	ND	ND	ND
	3A-Ce	3	17	29	69	57	99	189	ND	ND	ND	ND	ND	ND
	3B-A	3	17	29	69	86	101	189	4	8	11	-3	46	84
	3B-B	3	11	27	69	104	102	189	ND	ND	ND	ND	ND	ND
	3B-C	3	11	27	69	57	99	189	ND	ND	ND	ND	ND	ND
	3B-D	3	17	29	69	21	96	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	17	29	69	39	98	189	ND	ND	ND	ND	ND	ND
Unaffected Area	B1	3	22	31	69	164	106	189	0	0	11	0	46	84
Ceiling	B2	3	22	31	69	93	101	189	4	8	11	-13	45	84
Room 3	B3	3	22	31	69	36	97	189	0	0	11	-37	42	84
Affected Area	1A-A	3	28	33	69	79	100	189	0	0	11	-29	43	84
Floor	1A-B	3	33	34	69	25	97	189	ND	ND	ND	ND	ND	ND
Room 3	1A-C	3	-6	19	69	36	97	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	1A-D	3	-6	19	69	57	99	189	ND	ND	ND	ND	ND	ND
	1A-Ce	3	0	22	69	11	96	189	ND	ND	ND	ND	ND	ND
	1B-A	3	6	24	69	25	97	189	0	0	11	-11	45	84
	1B-B	3	22	31	69	54	99	189	ND	ND	ND	ND	ND	ND
	1B-C	3	28	33	69	64	99	189	ND	ND	ND	ND	ND	ND
	1B-D	3	22	31	69	86	101	189	ND	ND	ND	ND	ND	ND
	1B-Ce	3	17	29	69	111	103	189	ND	ND	ND	ND	ND	ND
	1C-A	3	11	27	69	32	97	189	4	8	11	-8	45	84
	1C-B	3	6	24	69	29	97	189	ND	ND	ND	ND	ND	ND
	1C-C	3	6	24	69	50	98	189	ND	ND	ND	ND	ND	ND
	1C-D	3	6	24	69	39	98	189	ND	ND	ND	ND	ND	ND
	1C-Ce	3	11	27	69	93	101	189	ND	ND	ND	ND	ND	ND
	2A-A	3	11	27	69	68	100	189	0	0	11	-5	46	84
	2A-B	3	17	29	69	104	102	189	ND	ND	ND	ND	ND	ND
	2A-C	3	17	29	69	61	99	189	ND	ND	ND	ND	ND	ND
	2A-D	3	22	31	69	89	101	189	ND	ND	ND	ND	ND	ND
	2A-Ce	3	22	31	69	46	98	189	ND	ND	ND	ND	ND	ND
	2B-A	3	22	31	69	39	98	189	0	0	11	-11	45	84
	2B-B	3	22	31	69	68	100	189	ND	ND	ND	ND	ND	ND
	2B-C	3	28	33	69	43	98	189	ND	ND	ND	ND	ND	ND
	2B-D	3	28	33	69	7	95	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
	2B-Ce	3	22	31	69	18	96	189	ND	ND	ND	ND	ND	ND
	2C-A	3	22	31	69	-4	95	189	0	0	11	3	46	84
	2C-B	3	28	33	69	61	99	189	ND	ND	ND	ND	ND	ND
	2C-C	3	28	33	69	43	98	189	ND	ND	ND	ND	ND	ND
	2C-D	3	28	33	69	50	98	189	ND	ND	ND	ND	ND	ND
	2C-Ce	3	0	22	69	57	99	189	ND	ND	ND	ND	ND	ND
	3A-A	3	22	31	69	64	99	189	4	8	11	0	46	84
	3A-B	3	22	31	69	96	102	189	ND	ND	ND	ND	ND	ND
	3A-C	3	17	29	69	43	98	189	ND	ND	ND	ND	ND	ND
	3A-D	3	17	29	69	18	96	189	ND	ND	ND	ND	ND	ND
	3A-Ce	3	11	27	69	57	99	189	ND	ND	ND	ND	ND	ND
	3B-A	3	11	27	69	86	101	189	0	0	11	-13	45	84
	3B-B	3	0	22	69	107	102	189	ND	ND	ND	ND	ND	ND
	3B-C	3	0	22	69	57	99	189	ND	ND	ND	ND	ND	ND
	3B-D	3	22	31	69	82	101	189	ND	ND	ND	ND	ND	ND
	3B-Ce	3	22	31	69	39	98	189	ND	ND	ND	ND	ND	ND
	3C-A	3	22	31	69	29	97	189	0	0	11	-11	45	84
	3C-B	3	22	31	69	57	99	189	ND	ND	ND	ND	ND	ND
	3C-C	3	28	33	69	61	99	189	ND	ND	ND	ND	ND	ND
	3C-D	3	33	34	69	75	100	189	ND	ND	ND	ND	ND	ND
	3C-Ce	3	33	34	69	4	95	189	ND	ND	ND	ND	ND	ND

COPY

Surface Activity Measurements
Mixed Waste Storage Facility Interiors & Exterior

Building/ Area and Surface	Measurement Location	Figure	Activity (dpm/100 cm^2)											
			Total						Removable					
			Alpha			Beta-Gamma			Alpha			Beta		
			Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA	Act.	Uncert.	MDA
Exterior	1	4	17	29	69	114	103	189	0	0	11	26	46	84
	2	4	33	34	69	129	104	189	0	0	11	108	33	84
	3	4	56	41	69	182	107	189	0	0	11	111	33	84
	4	4	44	38	69	43	98	189	0	0	11	126	36	84
	5	4	61	42	69	86	101	189	0	0	11	124	35	84
	6	4	56	41	69	43	98	189	4	8	11	103	32	84
	7	4	50	39	69	18	96	189	0	0	11	92	31	84
	8	4	22	31	69	64	99	189	4	8	11	89	30	84
	9	4	28	33	69	54	99	189	0	0	11	95	31	84
	10	4	17	29	69	14	96	189	4	8	11	74	27	84
	11	4	17	29	69	46	98	189	0	0	11	63	25	84
	12	4	33	34	69	50	98	189	8	11	11	76	28	84
	13	4	22	31	69	-29	93	189	0	0	11	68	26	84
	14	4	22	31	69	75	100	189	0	0	11	92	31	84
	15	4	28	33	69	50	98	189	0	0	11	100	32	84
	16	4	50	39	69	43	98	189	4	8	11	134	37	84
	17	4	33	34	69	118	103	189	0	0	11	92	31	84
	18	4	17	29	69	4	95	189	8	11	11	92	31	84
	19	4	17	29	69	79	100	189	4	8	11	95	31	84
	20	4	50	39	69	129	104	189	0	0	11	95	31	84
	21	4	61	42	69	100	102	189	0	0	11	97	31	84

COPY

APPENDIX C

FIELD SAMPLING DOCUMENTATION

INTERNATIONAL TECHNOLOGY CORPORATION

FIELD ACTIVITY DAILY LOG

DAILY LOG | DATE 5 14 98 | NO. | SHEET 1 OF 1

PROJECT NAME LEHR UC DAVIS | PROJECT NO. 774080

FIELD ACTIVITY SUBJECT: Mobe Straw bales SW trench Drum inventory

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS: MWSF Sampling

0800 - Arrive @ UC Davis office Tailgate Safety meeting
0830 - 1st Crew mobe to SW trench set up Straw bales. 2nd Crew Start drum inventory @ Co-60 field.
0900 - Start organizing Sampling equipment for Mixed-Waste Storage Sampling.
1100 - Set up rad Contamination zone around Mixed-waste soil sample location
1300 - Readiness review meeting. (MWSF sampling, Rad H&S)
1500 - Start PD Soil Sampling Mixed waste Storage area.
MFSSØØØ2
MFSSØØØ4
MFSSØØØ3
MFSSØØØ1
MFSSØØØ5
~~MFSP~~ PD
MFWSØØØ1 Rinsate blank
1630 - Clean up site, return to office store Samples in refrigerator finish up field paperwork. Crew left UC Davis for the day.

VISITORS ON SITE:
None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
No Triplank sent w/ bottle set from lab

WEATHER CONDITIONS:
Cloudy
~~Clear~~ PD, Warm

IMPORTANT TELEPHONE CALLS:
None

IT PERSONNEL ON SITE: See tailgate Safety meeting

SIGNATURE [signature] DATE 5/14/98 PD

TAILGATE SAFETY MEETING

DIVISION/SUBSIDIARY: Engineering / Remedial Services FACILITY: Martinez / LFHR

Date 05/13/98 Time 0800 Job Number 774080

Customer Weiss Assoc. Address UC DAVIS, ITEH SITE, OLD DAVIS RD, DAVIS, CA

Specific Location: West Dog Pens, Southwest Trench Area, MWSF LOCATION

Type of Work: Unload B-25 boxes for storage, relocate fence, move hay bales, line dog pen aisles with poly liner, moving gravel from previous sampling back into dog pen holes, hand augering @ MWSF and chemical swipes, Core Boring

Chemicals Used none

SAFETY TOPICS PRESENTED

Protective Clothing/Equipment: Level D, Hardhats, safety glasses, steel toe boots, work gloves, Modified level D while in Contaminated Areas as per HWP.

Chemical Hazards N/A

Physical Hazards: slips, trips and falls, uneven walking surfaces, open holes, heavy equipment operations, possible noise / communication hazard, possible contact with contamination, heavy lifting.

Emergency Procedures Assist injured personnel as possible; notify first aid/cpr trained personnel; notify HSO & FC CALL 911

Hospital/Clinic Sutter Davis Phone (916) 756-6440 Paramedic Phone 911

Hospital Address 2000 Sutter Place, Davis, CA

Special Equipment: buddy system in effect while in Controlled Areas.

Other: Must have current General Employee Radiological Training (GERT)or escort while in Radiologically Controlled areas. Must be Rad Worker 2 trained for entry into Contaminated Areas (see HWP).

ATTENDEES

NAME PRINTED	SIGNATURE
Doug Brown	
Paul DeOcampo	
Robert Bertorello	
Steve Sorrell	
Mark Harris	
Brett Kelly	Brett Kelly #22
Dennis Rixen	
Joyce Adams	Joyce Adams
SANTIAGO LEE	

Meeting Conducted by:

NAME PRINTED SIGNATURE

Supervisor: Kevin O'Leary

LEHR

Readiness Review Checklist For

Mixed Waste Storage Facility Sampling

Prepared May 12, 1998

Readiness Review Meeting conducted 5/12/98

Anticipated Field Work Dates: ~~5/14~~ to 5/15, 1998

	Yes	No	Not Applicable	Remedy Date
Authorization				
Notice to Proceed (from Wiess Associates)	✓			
Project Manager Authorization (from IT Corporation)	✓			
Notifications:				
Affected LEHR Facility Occupants/Operations notified	✓			Dr. Ballard UCD Engineering 5/12/98
Project Plans On-Site:				
Work Plan	✓			Final Work Plan to IT 5/13/98 ~~RD~~
Quality Control Plan	✓			
Health and Safety Plan	✓			
Project personnel have read work documents		✓		5/13/98 ✓ ~~RD~~
Personnel Training Documentation On-Site:				
40 Hour OSHA	✓			
Annual Refresher	✓			
Rad Worker II	✓			
Operator Training			N/A	
Competent Person Training			N/A	

	Yes	No	Not Applicable	Remedy Date
Permits:				
Dig Permit/Utility Clearance (48 Hour Notice)	✓ Ticket # 120498		✓ per B. Devany	
Dig locations marked on ground surface		✓ →		5/14/98 ✓ S. Lee
Approved HWP	✓			
Completed Activity Hazard Analysis (AHA)		✓ →		5/14/98 ✓ D. Brown I S. Lee
Sample & Analysis:				
Laboratory under contract and ready to receive samples	✓			
Required sampling equipment/instruments on-site	✓			
Required restoration materials (cement, A/C, etc...) on-site	✓			
Required sample containers on-site	✓			
Required sample shipping containers on-site	✓			
Sample locations clearly marked		✓ →		5/14/98 ✓ S. Lee
Laboratory notified of sample and analysis schedule	✓			
Subcontractors:				
drilling subcontractor under contract			✓	
Line locator under contract			✓	
Land surveyor under contract			✓	
Subcontractors aware of report to work date and schedule			✓	
Subcontractors training records on-site			✓	
Equipment and Supplies:				
Project equipment, instrumentation, and supplies on-site	✓			
Project health and safety supplies on-site	✓			
Project equipment and instrumentation calibrated		✓ →	ST	J. Adams 5/14/98 ✓ PE; D. Brown 5/14/98 ✓ RA
Waste Management:				
Containers/packaging for generated waste on-site	✓			

	Yes	No	Not Applicable	Remedy Date
IDW procedures in-place	✓			

Readiness Review Checklist Complete By:

IT Corporation KEVIN O'LEARY — Date 5/14/98

Weiss Associates SANTIAGO M. LEE — Date 5/14/98

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	051498
TIME	1540
PAGE	1 OF 1
PAGE	
PROJECT NO.	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UC DAVIS

SAMPLE NO.: MFSSØØØ1

SAMPLE LOCATION: Mixed - Waste Storage Facility

SAMPLE TYPE: Soil

COMPOSITE: ___ YES ✓ NO

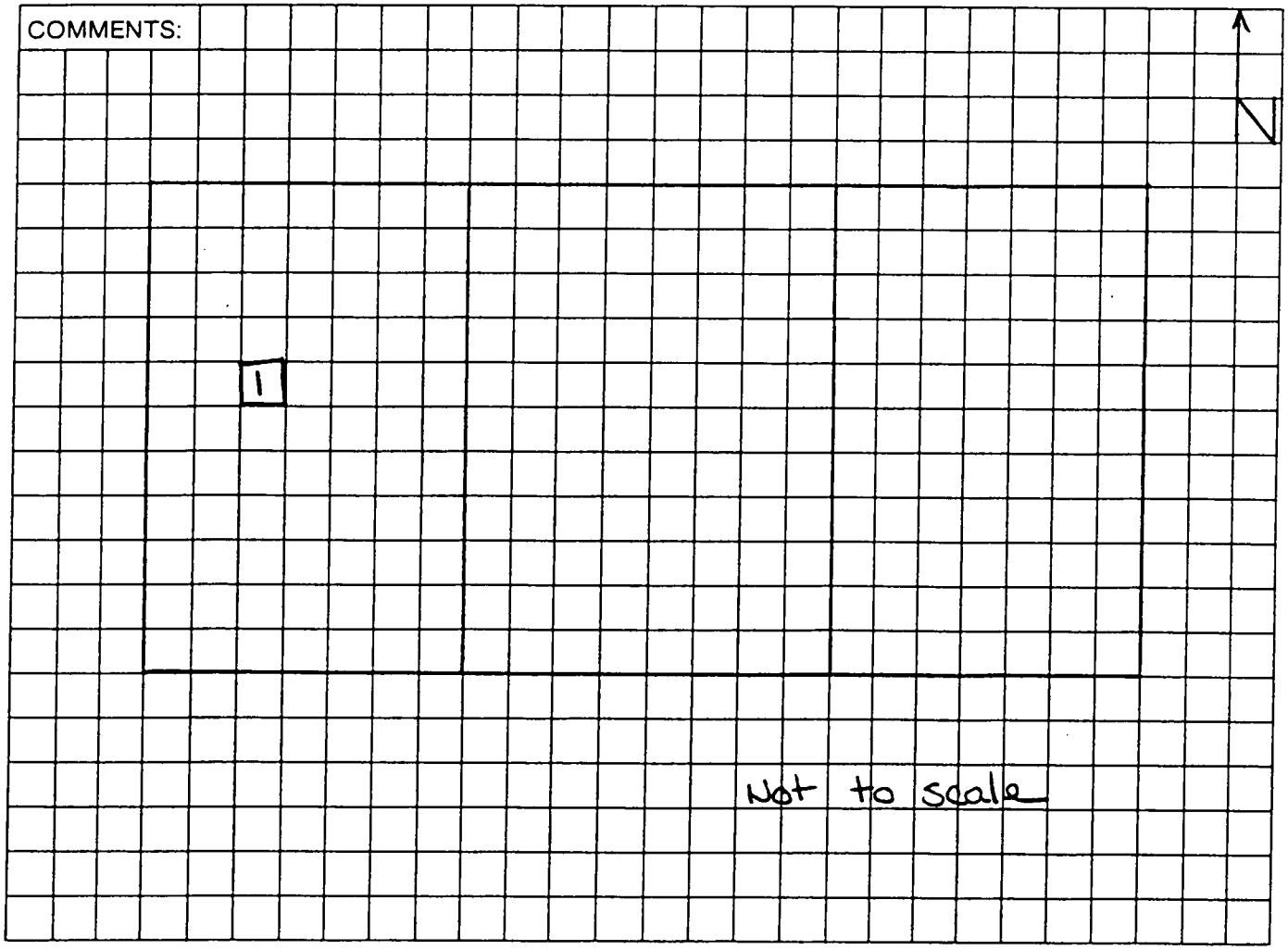
COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: 0-6" 6"-12"

WEATHER: Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Brass Sleeve	2x2"x6"

COMMENTS:



PREPARED BY: P. DeCamps

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	051498
TIME	1500
PAGE	1 OF 1
PAGE	
PROJECT NO.	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UC DAVIS

SAMPLE NO: MFSS ØØØ2

SAMPLE LOCATION: Mixed-Waste Storage Facility

SAMPLE TYPE: Soil

COMPOSITE: ___ YES ✓ NO

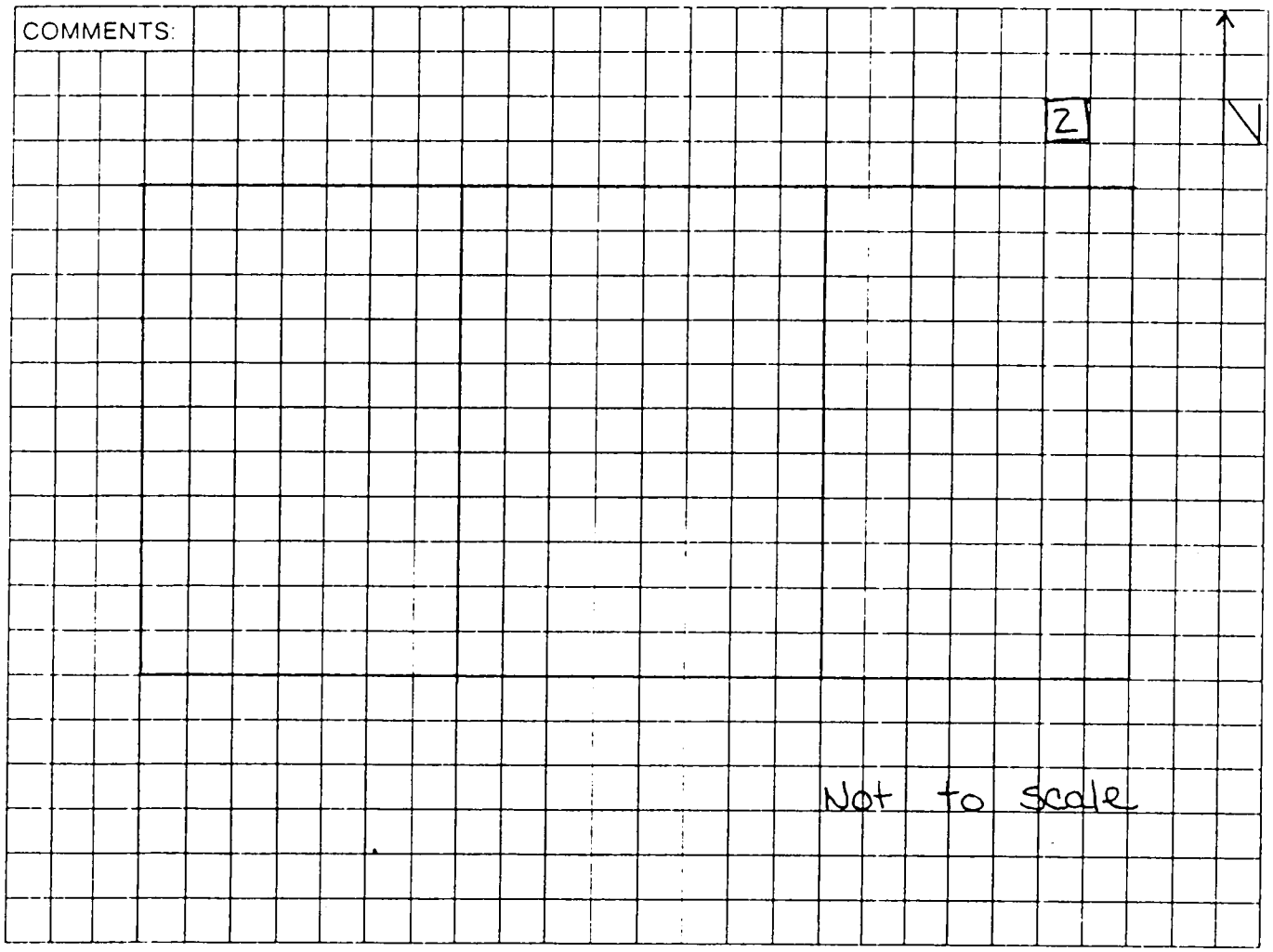
COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: 0-6" 6"-12"

WEATHER: Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Brass Sleeve	2 x 2" x 6"

COMMENTS:



PREPARED BY: P. DeCampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	051498
TIME	1530
PAGE	1 OF 1
PAGE	
PROJECT NO.	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UC DAVIS

SAMPLE NO.: MFSS0003

SAMPLE LOCATION: Mixed-Waste Storage Facility

SAMPLE TYPE: Soil

COMPOSITE: ___ YES ✓ NO

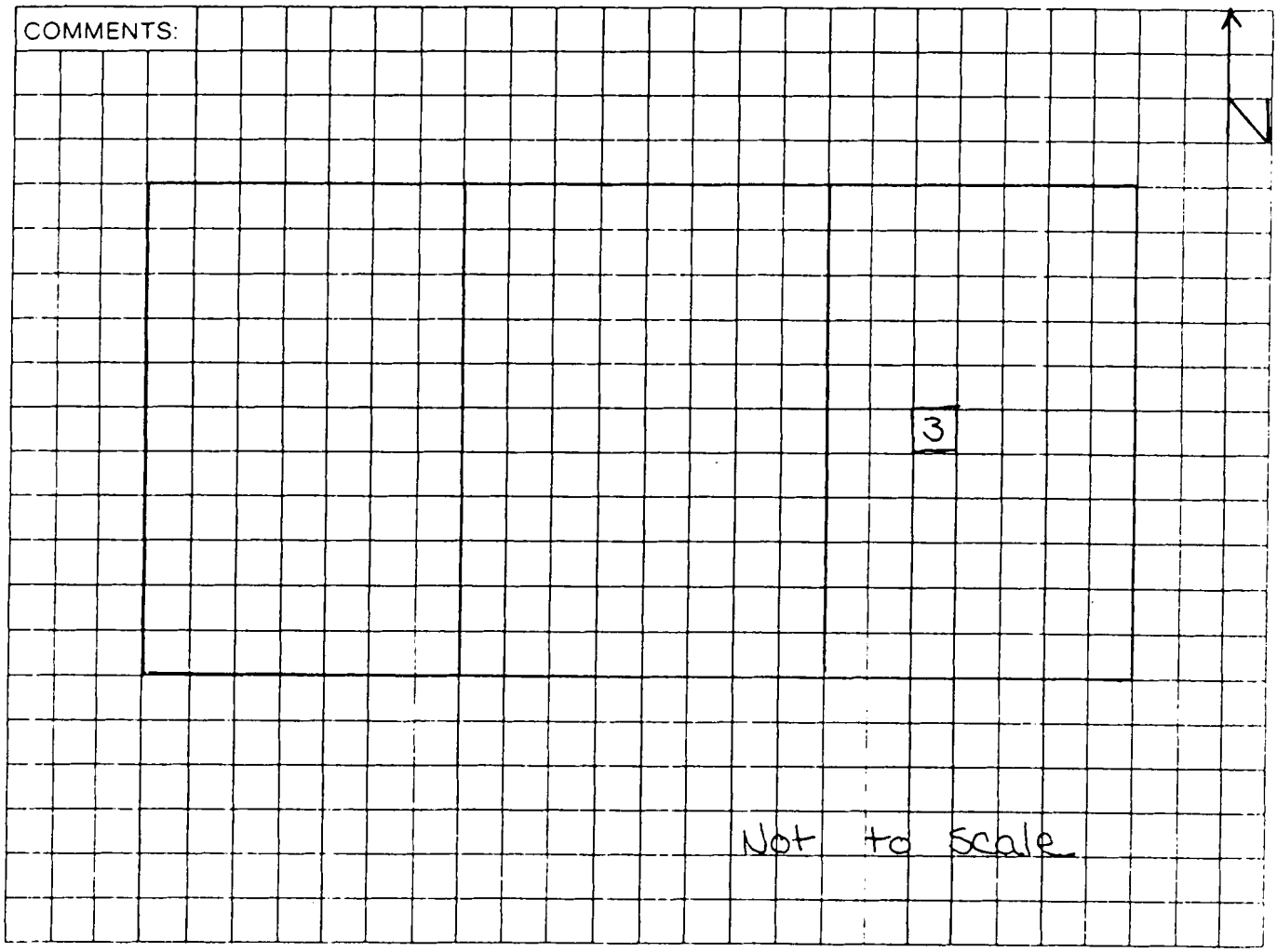
COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: 0-6" 6"-12"

WEATHER: Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Brass Sleeve	2x2"x6"

COMMENTS:



PREPARED BY: P. DeCampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	051498
TIME	1520
PAGE	1 OF 1
PAGE	
PROJECT NO.	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UC DAVIS

SAMPLE NO.: MFSS0004

SAMPLE LOCATION: Mixed-Waste Storage Facility

SAMPLE TYPE: Soil

COMPOSITE: ___ YES ✓ NO

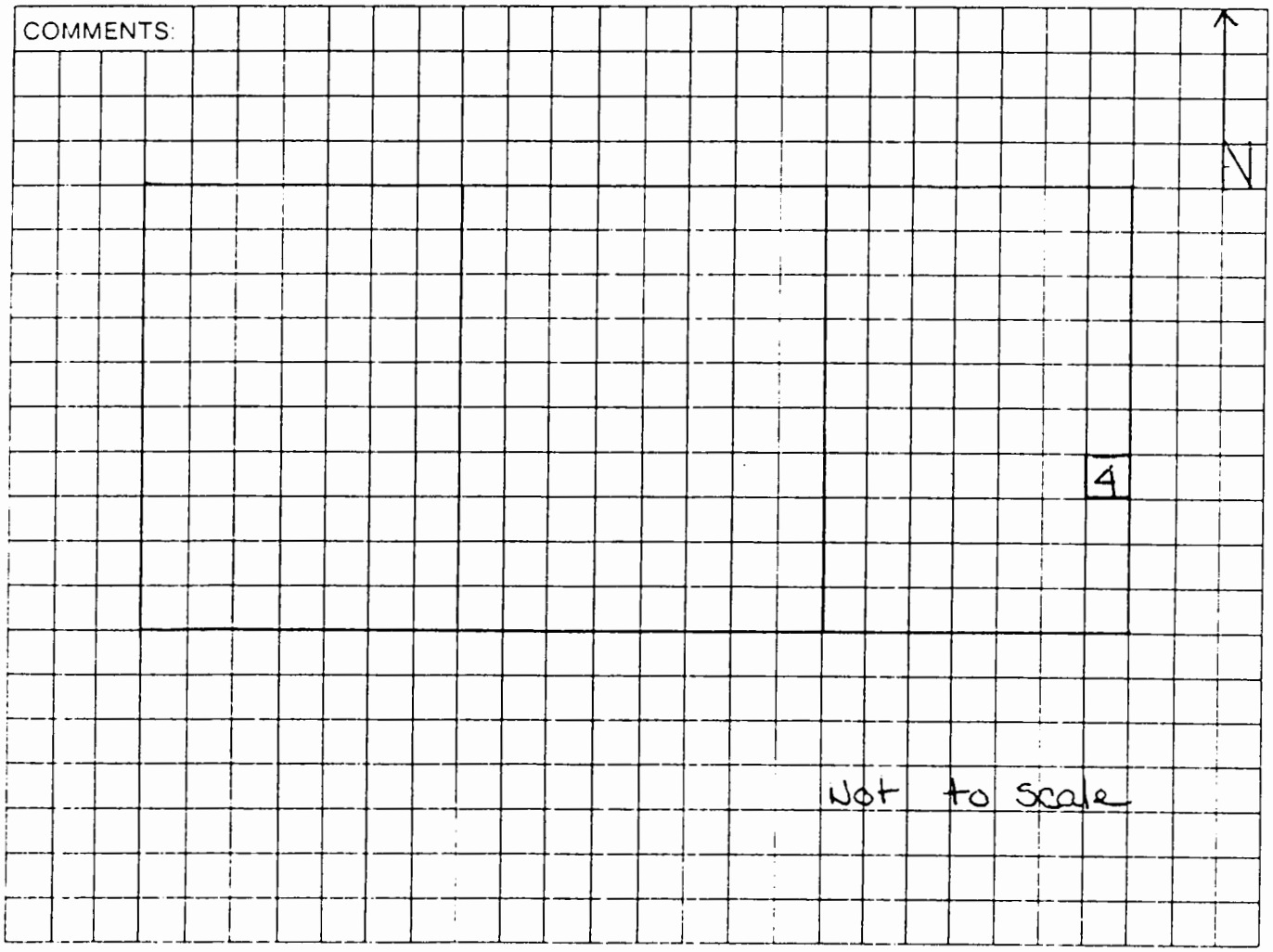
COMPOSITE TYPE: ___

DEPTH OF SAMPLE: 0-6" 6"-12"

WEATHER: Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Brass Sleeve	2x2"x6"

COMMENTS:



PREPARED BY: P. DeCampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	051498
TIME	1550
PAGE	1 OF 1
PAGE	
PROJECT NO.	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UC DAVIS

SAMPLE NO.: MFSS ØØØ5

SAMPLE LOCATION: Mixed-Waste Storage Facility

SAMPLE TYPE: Soil

COMPOSITE: ___ YES ✓ NO

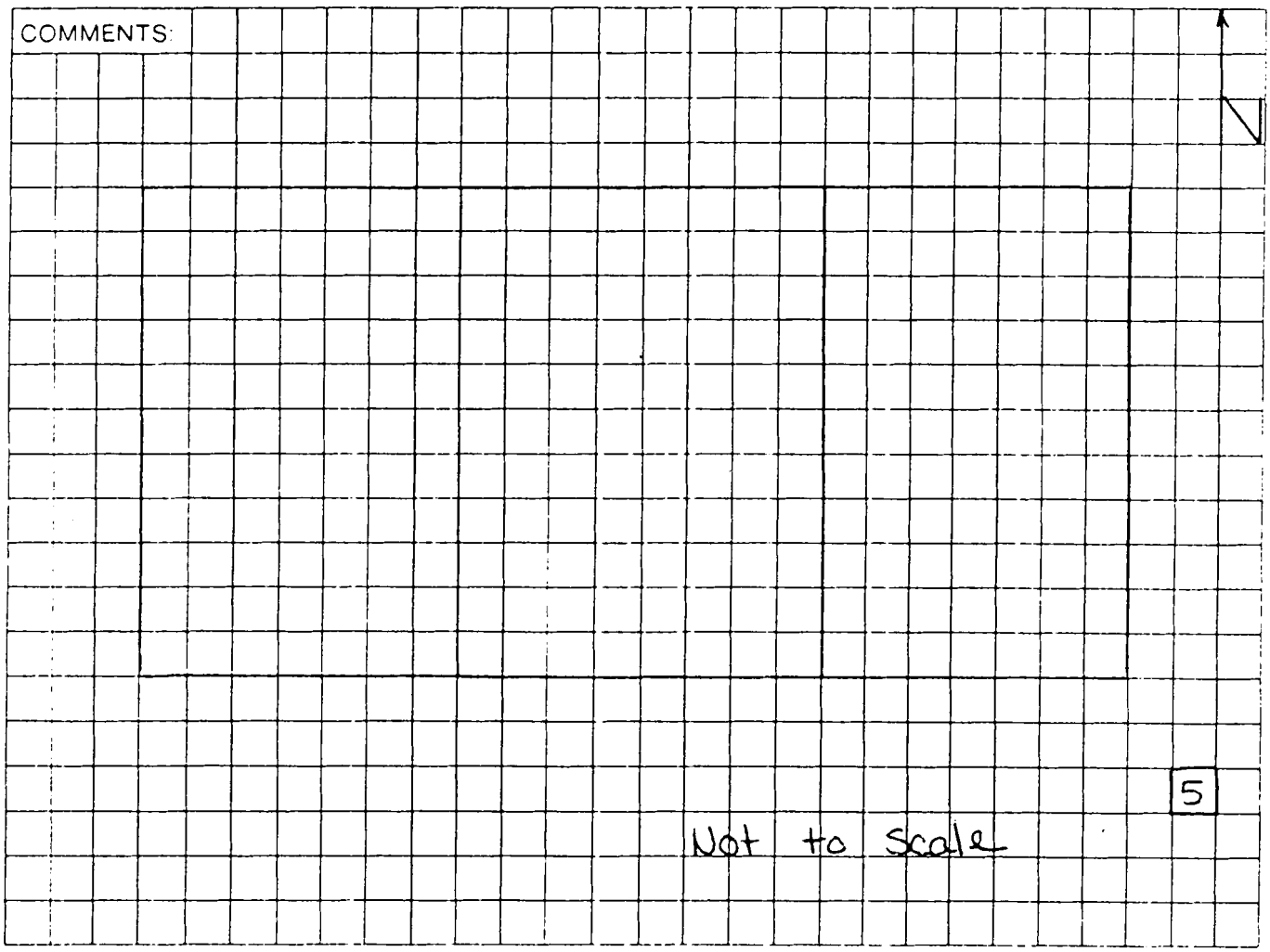
COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: 0-6" 6"-12"

WEATHER: Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Brass Sleeve	2x2"x6"

COMMENTS:



PREPARED BY: P. DeCampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	051498
TIME	1600
PAGE	1 OF 1
PAGE	
PROJECT NO.	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UC DAVIS

SAMPLE NO.: MFWS0001

SAMPLE LOCATION: Mixed-Waste Storage

SAMPLE TYPE: Water

COMPOSITE: ___ YES ✓ NO

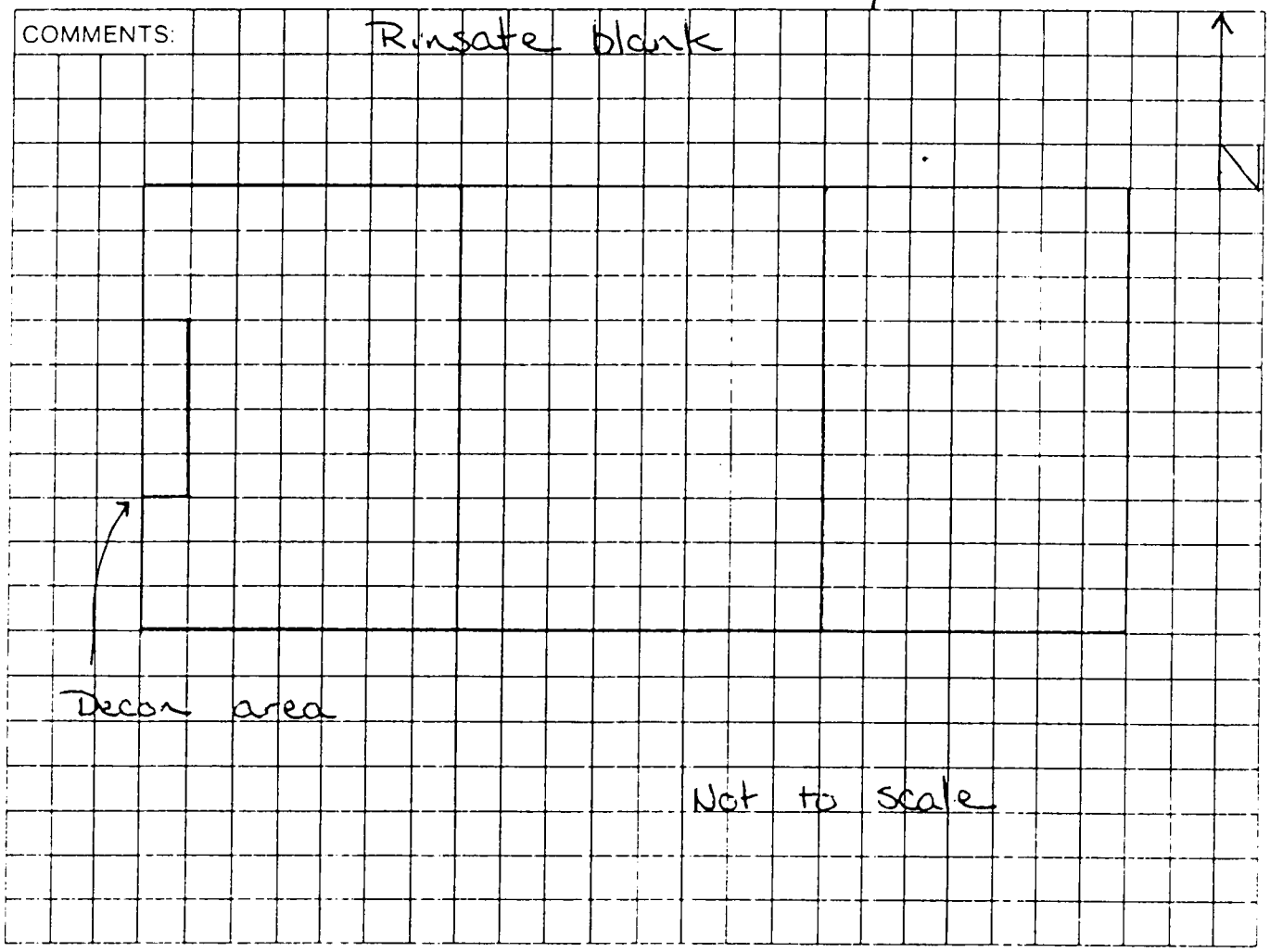
COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: N/A

WEATHER: Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Poly	1x250
VOAs	3x40ml
Amber	2x1L
Poly	4x1L
Poly	2x500ml

COMMENTS: Rinsate blank



PREPARED BY: P. DeOcampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	022398 ~~03~~
TIME	1500
PAGE	1 OF 1
PAGE	
PROJECT NO	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UC Davis

SAMPLE NO.: MFWS0002

SAMPLE LOCATION: Mixed-Waste Storage area (Field-Lab)

SAMPLE TYPE: Water

COMPOSITE: ___ YES ✓ NO

COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: N/A

WEATHER: clear

CONTAINERS USED	AMOUNT COLLECTED
VOA's	3x40ml

COMMENTS: Trip blank

Shipped ~~Shipp~~ to Lab w/ Samples

MFWI0001
MFWI0001
MFWI0002
MFWI0003
MFWO0001
MFWO0002
MFWO0003
MFWI0004

PREPARED BY: P. DeCampo

Weiss Associates
Environmental Science and Engineering Services
5500 Shellmound Street, Emeryville, CA 94608
Phone: 510-450-6000 Fax: 510-547-5043

LEHR Chain-of-Custody Record

Control Number: LEHR-MWSF-01

5/15/98

Project Name: LEHR/MWSF
Project Number: 128-4001-432
Sampled by: Paul DeCampo, D. Brown

Send Results To: Santiago Lee
Email: data@weiss.com
Fax: (510) 547-5043
Sampler's Signature:

Lab Name: GEL/EPI
Lab Address: 2040 Savage Road, Charleston, SC 29407
Lab Login:

Sample ID	Sample Date	Sample Time	Matrix (1) / Container (2)	Number of Containers	Preservative Y/N (type)	Volatiles (8240)	Semivolatiles (8270)	Pesticides/PCBs	Metals (~~Hg only~~)	~~Metals (Cr only)~~ Tritium	Gross Alpha/Beta (9310)	Gamma Spec (9011.1)	Carbon-14	Radium-226 (903.1)	Strontium-90, 89 (total)	Americium-241	Plutonium-238, 239, 240, 241			Chromium (VI)	Nitrate	TOC	TON	Ammonia	Formaldehyde	Additional Comments
						Analysis Requested: ~~CLP~~				Radionuclides										Other						
1 MFSS0001	5/14/98	1540	Soil / Brass Sleeve	2		X	X			X	X	X	X	X	X	X	X								X	See attached tables for detection limits required. Turnaround Time: ~~Radium-226 = 45 days~~ ~~All others~~ + 30 days SML 5/15/98
2 MFSS0002		1500	Soil / Brass Sleeve	2		X	X			X	X	X	X	X	X	X	X								X	
3 MFSS0003		1530	Soil / Brass Sleeve	2		X	X			X	X	X	X	X	X	X	X								X	
4 MFSS0004		1520	Soil / Brass Sleeve	2		X	X			X	X	X	X	X	X	X	X								X	
5 MFSS0005		1550	Soil / Brass Sleeve	2		X	X			X	X	X	X	X	X	X	X								X	
6 MFWS0001		1600	Water / VOA	3	HCl	X																				
7 MFWS0001		1600	Water / 1L Amber	2			X																			
8 MFWS0001		1600	Water / 500ml Poly	1									X													
9 MFWS0001		1600	Water / 500ml Poly	1																					X	
10 MFWS0001	↓	1600	Water / 250ml Poly	1						X																

Signature	Company	Date	Time
Relinquished by:	IT Corp	~~5/14/98~~ 5/15/98	~~1600~~ 1400 PD
Received by: SANTIAGO LEE	WA	5/15/98	14:01
Relinquished by:	WA	5/15/98	15:26
Received by:			
Relinquished by:			
Received by:			

(1) Matrix: S - Soil, W - Water, O - Other (describe)
(2) Container:
V = VOA Bottle
P = Polyethylene Bottle
G = Glass Bottle
T = BrassTube
O = Other (describe)

Weiss Associates
Environmental Science and Engineering Services
5500 Shellmound Street, Emeryville, CA 94608
Phone 510-450-6000 Fax 510-547-5043

LEHR Chain-of-Custody Record

Project Name: LEHR/MWSF
Project Number: 128-4001-432
Sampled by: Paul DeCampo, D. Brown

Control Number: LEHR-MWSF-01 (5/15/98)
Send Results To: Santiago Lee
Email: data@weiss.com
Fax: (510) 547-5043
Sampler's Signature: [signature]

Lab Name: GEL/EPI
Lab Address: 2040 Savage Road, Charleston, SC 29407
Lab Login:

Sample ID	Sample Date	Sample Time	Matrix (1) / Container (2)	Number of Containers	Preservative Y/N (type)	Volatiles (8240)	Semivolatiles (8270)	Pesticides/PCBs	Metals (4 only)	Metals (Cr only) Tritium	Gross Alpha/Beta (9310)	Gamma Spec (901.1)	Carbon-14	Radium-226 (903.1)	Strontium-90, 89/90 (905.0)	Americium-241	Plutonium-238, 239/240			Chromium (VI)	Nitrate	TOC	TON	Ammonia	Formaldehyde	Additional Comments
~~MWPO~~ MFWS0001	5/14/98	1600	water / 1L Poly	4	HNO_3						X	X		X	X	X	X									See attached tables for detection limits required
2			/																							
3			/																							
4			/																							
5			/																							
			/																							
7			/																							
8			/																							
9			/																							
10			/																							

Turnaround Time: ~~Radium-226 — 45 days~~, ~~All others — 30 days~~ SML 5/15/98

Signature	Company	Date	Time
Relinquished by: [signature]	IT Corp	~~5/14/98~~ 5/15/98	1400
Received by: [signature] SANTIAGO LEE	WA	5/15/98	1401
Relinquished by: [signature]	WA	5/15/98	15:26
Received by:			
Relinquished by:			
Received by:			

(1) Matrix: S - Soil, W - Water, O - Other (describe)
(2) Container:
V = VOA Bottle
P = Polyethylene Bottle
G = Glass Bottle
T = Brass Tube
O = Other (describe)

INTERNATIONAL TECHNOLOGY CORPORATION

DAILY LOG			
DATE	5	15	98
NO.			
SHEET	1 OF 1		

FIELD ACTIVITY DAILY LOG

PROJECT NAME: LEHR UC DAVIS | PROJECT NO: 774080

FIELD ACTIVITY SUBJECT: Drum inventory, Pavement & Stockpile, MWSF Sampling

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0800 - Arrive @ UC Davis office. Tailgate Safety meeting
0830 - Crew mobe to West dog Park area move Stockpile & Continue inventory on drum @ Co-60 field.
0900 - Mobe to Mixed-waste Storage container set up Zone.
1120 - Start sampling Mixed-waste Storage ~~box #1~~ Container
MFWI0001 (wipe)
MFWI0001 Duplicate (wipe)
MFWI0002 (wipe)
MFWI0003 (wipe)
MFWO0001 (wood)
MFWO0002 (wood)
MFWO0003 (wood)
MFWI0004 Field blank (~~wood~~ wipe) SML, 6/4/98.
MFWS0002 Trip blank
1310 - Finish sampling Mixed-waste Storage containers. Return to office store samples in refrigerator - finish up field paperwork.
1400 - Relinquished samples to Weiss Santiago Lee for shipment. Crew setting up containment cell @ Co-60 field for asphalt.
1600 - Crew clean up area Left UC Davis for the day.

VISITORS ON SITE:
None

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:
No Tripblank sent ~~from~~ w/ bottle set from Lab.

WEATHER CONDITIONS:
Clear, warm

IMPORTANT TELEPHONE CALLS:
None

IT PERSONNEL ON SITE: See tailgate safety meeting

SIGNATURE: [signature] DATE: 5/15/98

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	051598
TIME	1120
PAGE	1 OF 1
PAGE	
PROJECT NO.	774080

SAMPLE COLLECTION LOG

PROJECT NAME LEHR UC DAVIS

SAMPLE NO. MFWI0001

SAMPLE LOCATION Mixed-waste Storage box#1

SAMPLE TYPE Wipe

COMPOSITE ____ YES ✓ NO

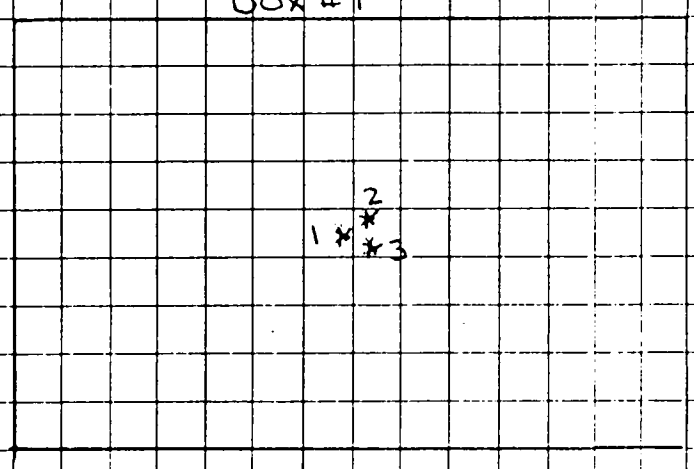
COMPOSITE TYPE N/A

DEPTH OF SAMPLE Surface

WEATHER Cloudy

CONTAINERS USED	AMOUNT COLLECTED
Glass Jar	3 x 4oz

COMMENTS:



* Sample location

Not to scale

PREPARED BY F. DiCampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	05 15 98
TIME	1125
PAGE	1 OF 1
PAGE	
PROJECT NO	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UC DAVIS

SAMPLE NO.: MFWI ØØØ1

SAMPLE LOCATION: Mixed-Waste Storage box #1

SAMPLE TYPE: Wipe

COMPOSITE: ___ YES ✓ NO

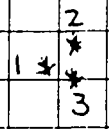
COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: Surface

WEATHER: Clear

CONTAINERS USED	AMOUNT COLLECTED
Glass Jar	3x4oz

COMMENTS: Field Duplicate



* Sample Location

Not to scale

PREPARED BY: P. Decamp

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	05 15 98
TIME	11 30
PAGE	1 OF 1
PAGE	
PROJECT NO	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UCDAVIS

SAMPLE NO.: MFWIØØØ2

SAMPLE LOCATION: Mixed-Waste Storage box#2

SAMPLE TYPE: wipe

COMPOSITE: ___ YES ✓ NO

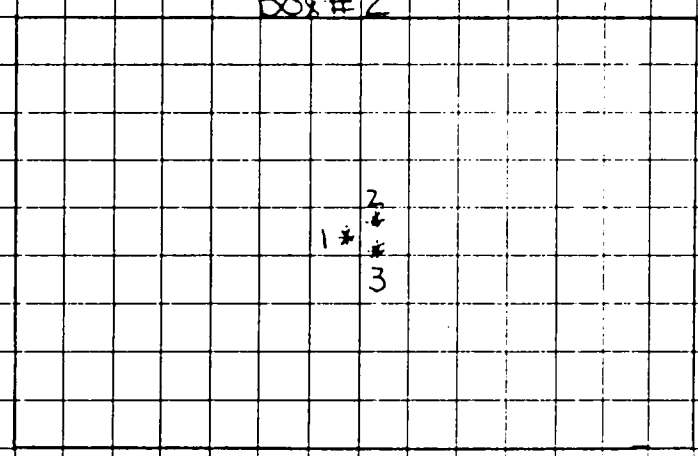
COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: Surface

WEATHER: Clear

CONTAINERS USED	AMOUNT COLLECTED
Glass Jar	3x4OZ

COMMENTS:



* Sample Location

Not to scale

PREPARED BY: P Deoscumpo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	05 / 5 9 8
TIME	1 1 4 0
PAGE	1 OF 1
PAGE	
PROJECT NO	774080

SAMPLE COLLECTION LOG

PROJECT NAME LEHR UC Davis

SAMPLE NO. MFWIØØØ3

SAMPLE LOCATION Mixed-Waste Storage. Box#3

SAMPLE TYPE Wipe

COMPOSITE ____ YES ✓ NO

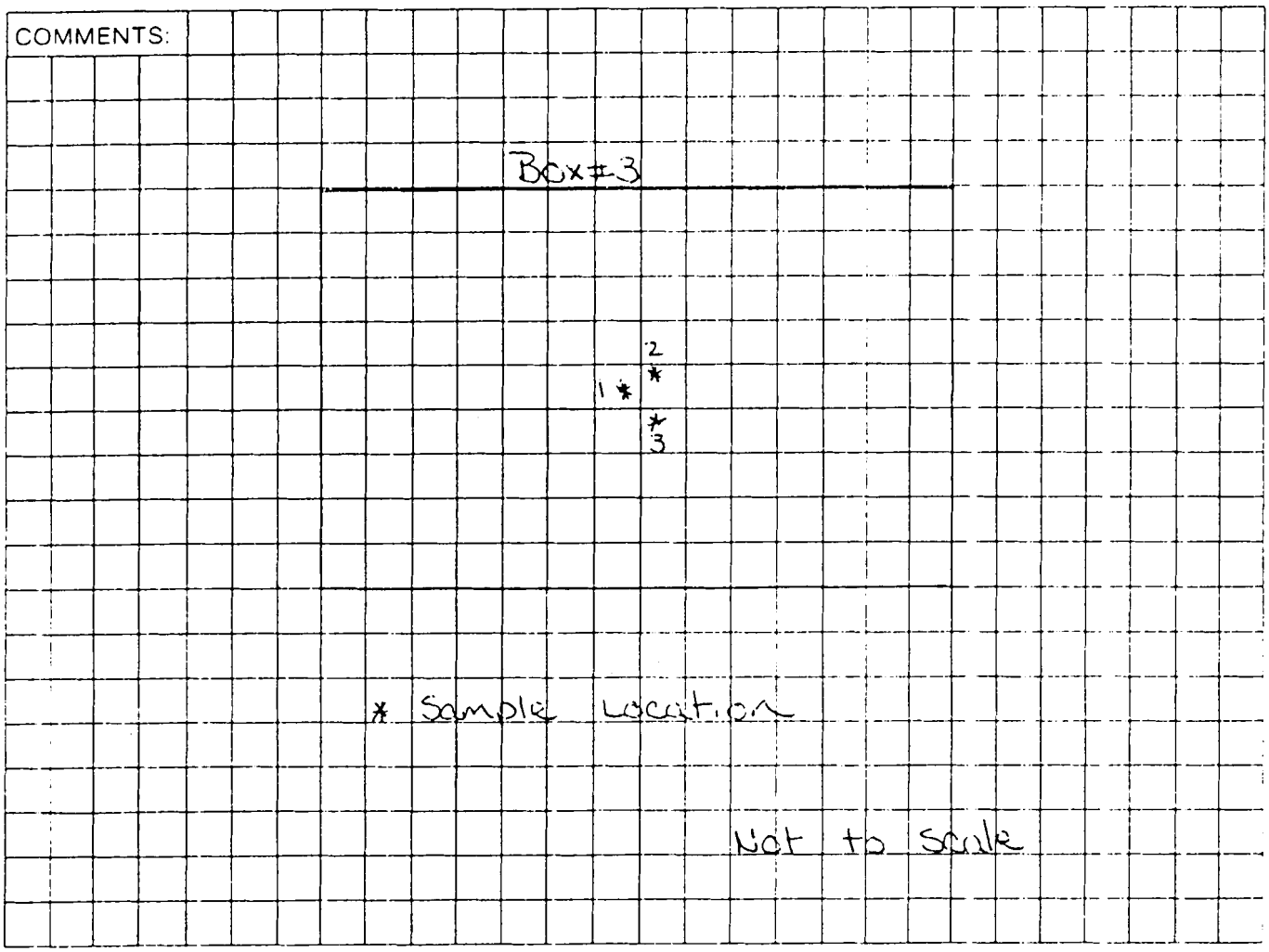
COMPOSITE TYPE N/A

DEPTH OF SAMPLE Surface

WEATHER Clear

CONTAINERS USED	AMOUNT COLLECTED
Glass Jar	3 x 4oz

COMMENTS:



PREPARED BY: P DeCrampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	05 15 98
TIME	1 1 4 5
PAGE	1 OF 1
PAGE	
PROJECT NO.	774080

SAMPLE COLLECTION LOG

PROJECT NAME LEHR UC Davis

SAMPLE NO. MFW00001

SAMPLE LOCATION Mixed-Waste Storage Box #1

SAMPLE TYPE Wood

COMPOSITE ____ YES ✓ NO

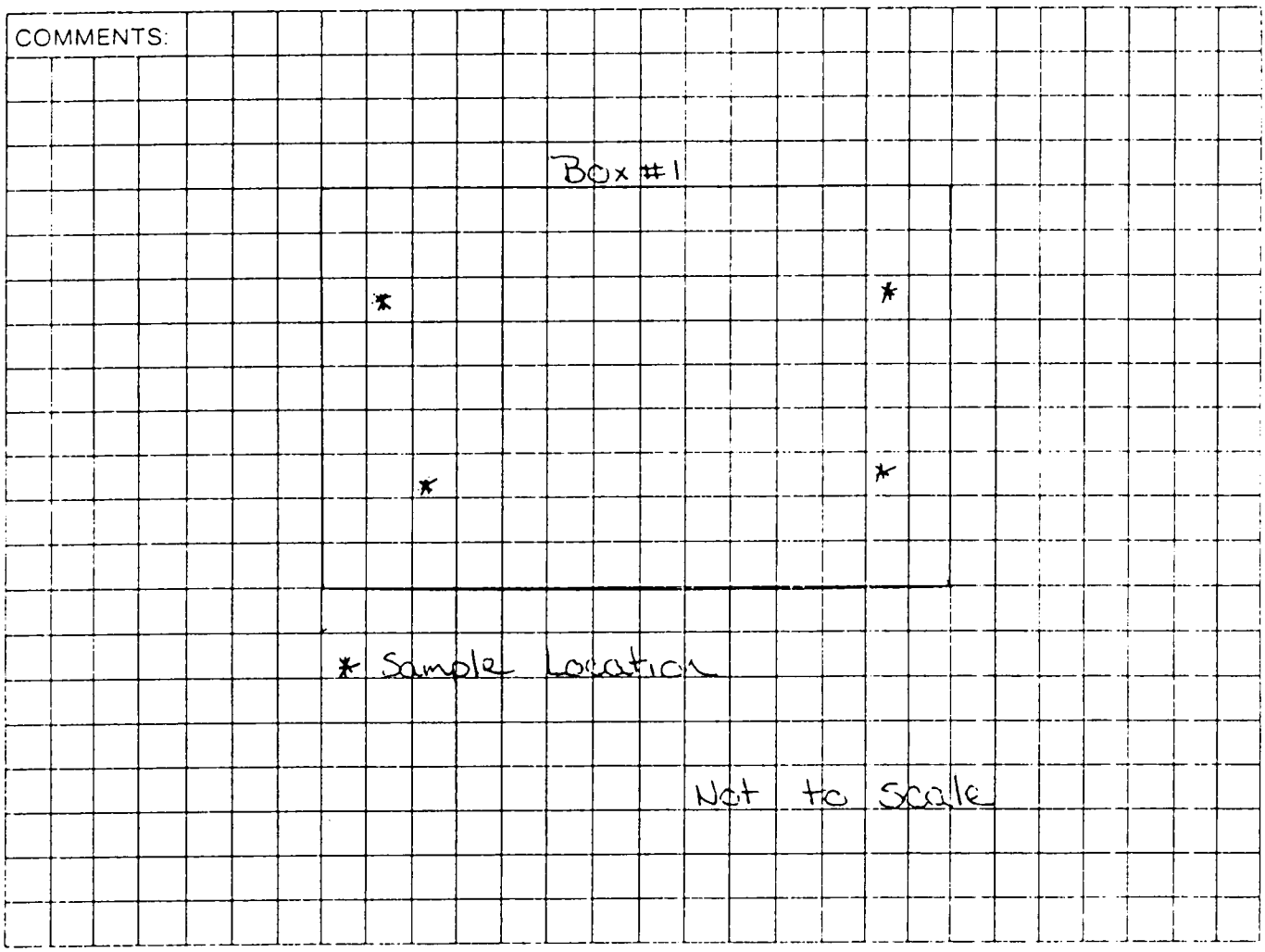
COMPOSITE TYPE N/A

DEPTH OF SAMPLE Surface

WEATHER Clear

CONTAINERS USED	AMOUNT COLLECTED
Glass Jars	3 3x4oz
Glass Jars	2x8oz

COMMENTS:



PREPARED BY P. DeCampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	0 5 1 5 9 8
TIME	1 2 2 5
PAGE 1 OF 1	
PAGE	
PROJECT NO.	774080

SAMPLE COLLECTION LOG

PROJECT NAME LEHR UC Davis

SAMPLE NO. MFWOØØØ2

SAMPLE LOCATION Mixed-Waste Storage Box#2

SAMPLE TYPE Wood

COMPOSITE ____ YES ✓ NO

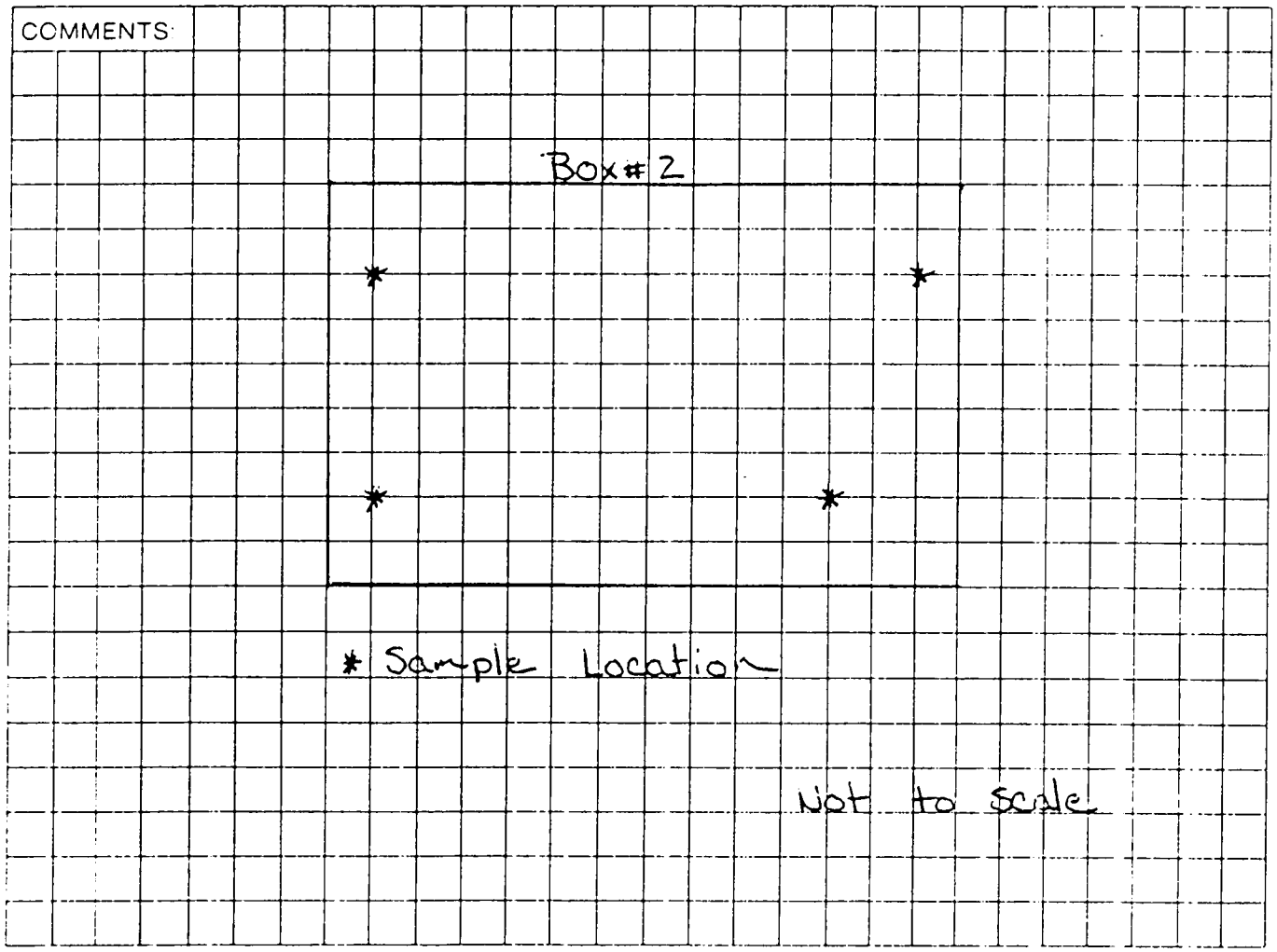
COMPOSITE TYPE N/A

DEPTH OF SAMPLE Surface

WEATHER Clear

CONTAINERS USED	AMOUNT COLLECTED
Glass Jars	3x4oz
Glass Jars	2x8oz

COMMENTS:



PREPARED BY P. DeOcampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	051598
TIME	1250
PAGE	1 OF 1
PAGE	
PROJECT NO	774080

SAMPLE COLLECTION LOG

PROJECT NAME LEHR UC Davis

SAMPLE NO. MFW000003

SAMPLE LOCATION Mixed-Waste Storage Box #3

SAMPLE TYPE Wood

COMPOSITE ____ YES ✓ NO

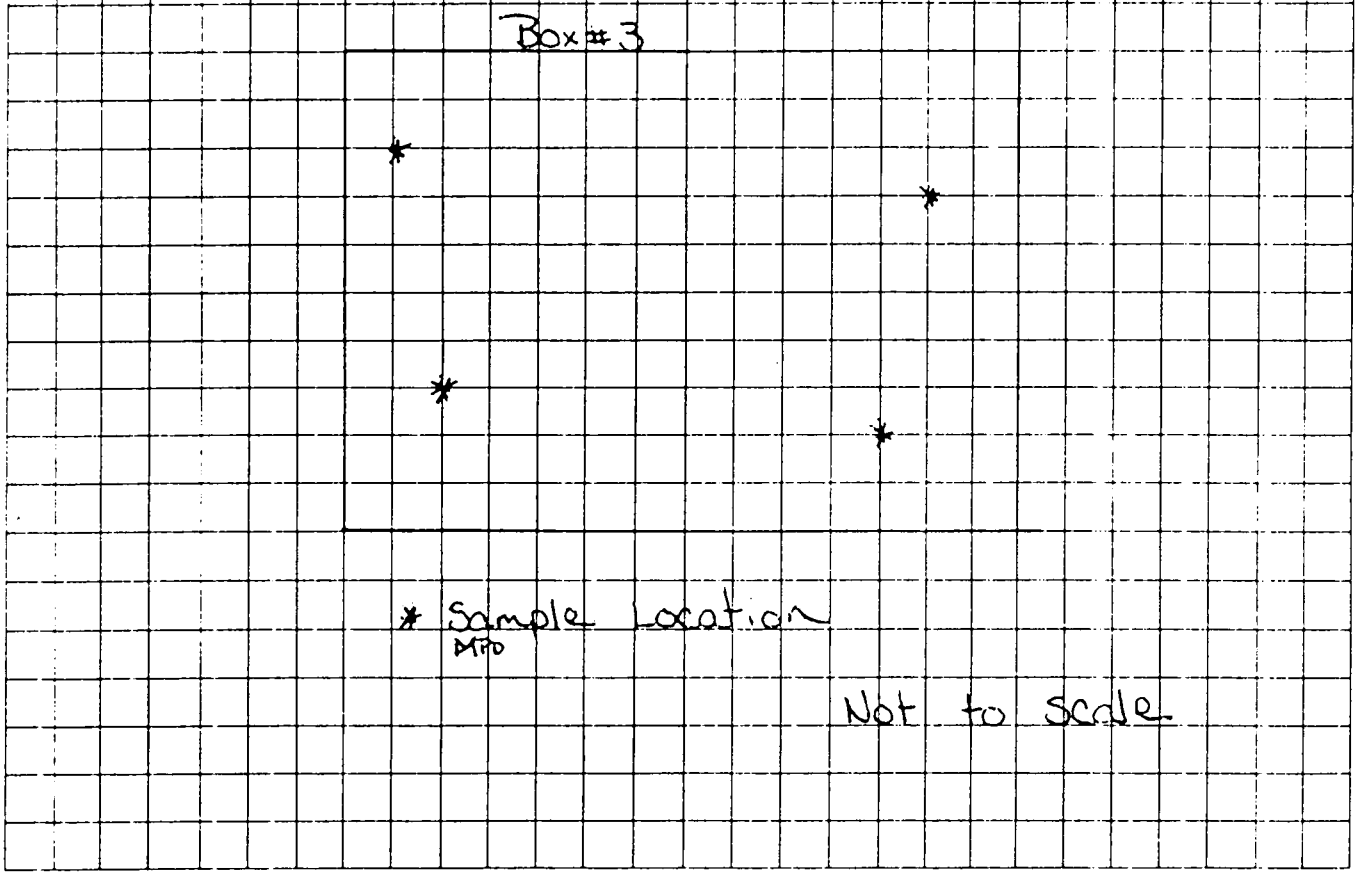
COMPOSITE TYPE N/A

DEPTH OF SAMPLE Surface

WEATHER Clear

CONTAINERS USED	AMOUNT COLLECTED
Glass Jars	3x4oz
Glass Jars	2x 8oz

COMMENTS:



PREPARED BY: P. DeOcampo

INTERNATIONAL TECHNOLOGY CORPORATION

DATE	05 15 98
TIME	13 10
PAGE	1 OF 1
PAGE	
PROJECT NO	774080

SAMPLE COLLECTION LOG

PROJECT NAME: LEHR UC Davis

SAMPLE NO.: MFWIØØØ4

SAMPLE LOCATION: Mixed-waste Storage area

SAMPLE TYPE: Air

COMPOSITE: ___ YES ✓ NO

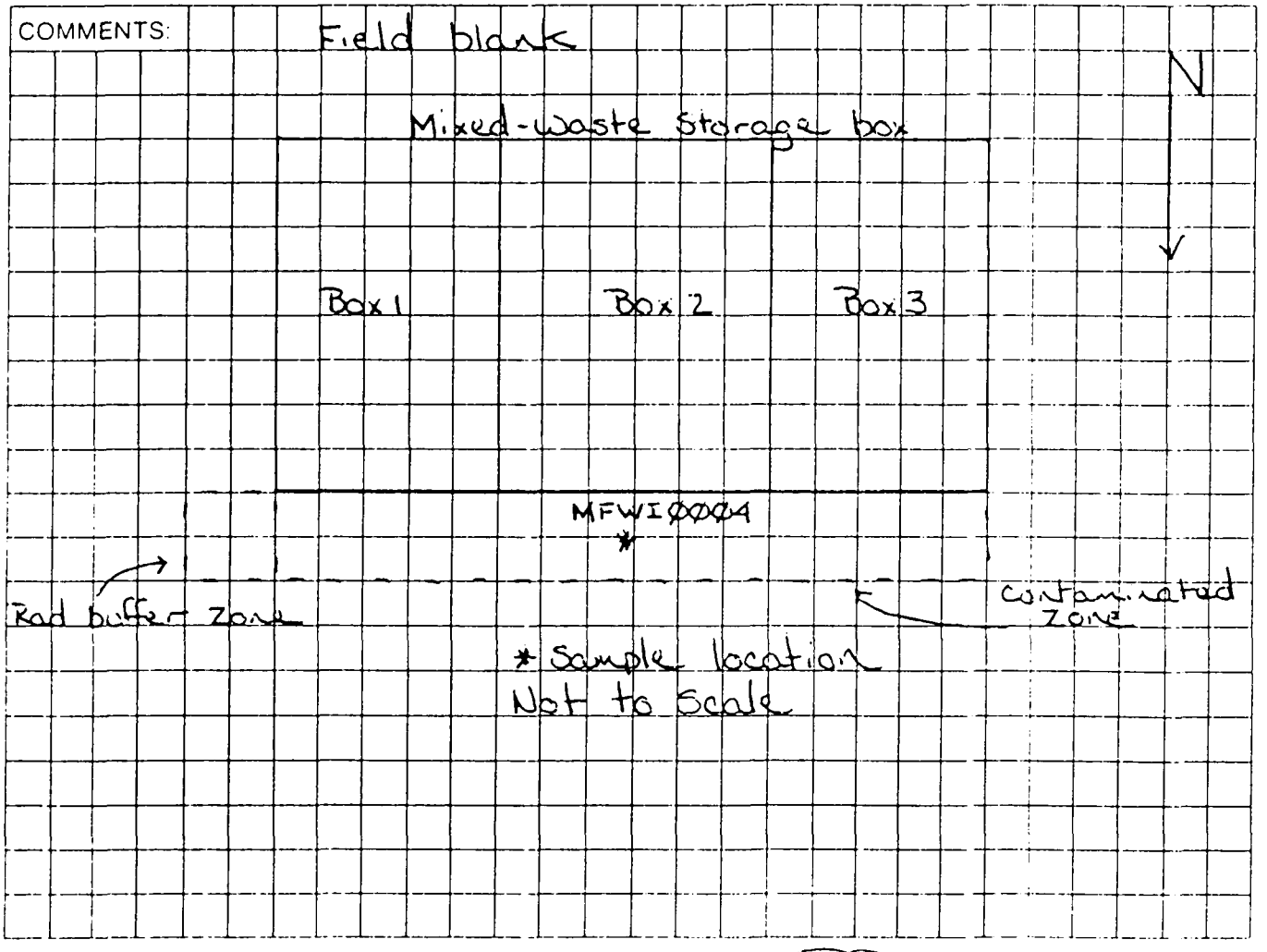
COMPOSITE TYPE: N/A

DEPTH OF SAMPLE: N/A

WEATHER: Clear

CONTAINERS USED	AMOUNT COLLECTED
Glass Jars	3x4oz

COMMENTS: Field blank



PREPARED BY P. DeOcampo

Weiss Associates
Environmental Science and Engineering Services
5500 Shellmound Street, Emeryville, CA 94608
Phone: 510-450-6000 Fax: 510-547-5043

LEHR Chain-of-Custody Record

Project Name: (UC Davis) LEHR/MWSF
Project Number: 128-4001-432
Sampled by: P. DeCampo, D. Brown

SML 5/15/98

Send Results To: Dominique Zee
Email: data@weiss.com
Fax: (510) 547-5043
Sampler's Signature: P. DeCampo

Lab Name: GEL/EPI
Lab Address: 2040 Savage Rd
Charleston, SC 29407
Lab Login:

LEHR-MSF-C1
3 of 3

Sample ID	Sample Date	Sample Time (5/15/98 SML)	Matrix (1) / Container (2)	Number of Containers	Preservative Y/N (type)	Volatiles (8240)	Semivolatiles (8270)	Pesticides/PCBs	Metals (Hg only)	~~Metals (Cr only)~~ Tri-Cr only	Gross Alpha/Beta (9310)	Gamma Spec (fc.1)	Carbon-14	Radium-226 (903.1)	Strontium-90 (905.1, total)	Americium-241	~~Plutonium-239/240~~ ~~Chromium (hex)~~	Nitrate	TOC	TON	Ammonia		Formaldehyde	Additional Comments
						Analysis Requested: CLP				Radionuclides								Other						Turnaround Time: ~~Radium-226 = 45 days~~ ~~All others~~ 30 days SML 5/15/98
MFWI0001	5/15/98	1120	Wipe Wood/Glass	3		X	X																X	See attached tables for detection limits required.
MFWI0001		1125	/	3		X	X																X	
MFWI0002		1130	/	3		X	X																X	
MFWI0003		1140	/	3		X	X																X	
MFWO0001		1145	Wood/	5		X	X			X	X	X	X	X	X	X	X						X	
MFWO0002		1225	/	5		X	X			X	X	X	X	X	X	X	X						X	
MFWO0003		1250	/	5		X	X			X	X	X	X	X	X	X	X						X	
MFWI0004		1310	Wipe /	3		X	X																X	
MFWS0002	2/23/98	1500	Water/ VOA's	3	HCL	X																		Hold; do not analyze.
10			/																					

Signature	Company	Time	Date
Relinquished by: P. DeCampo	IT Corp	1400	5/15/98
Received by: [illegible]	WA	14:01	5/15/98
Relinquished by: [illegible]	WA	15:26	5/15/98
Received by			
Relinquished by			

(1) Matrix: S - Soil, W - Water, O - Other (describe)
(2) Container:
V = VOA Bottle
P = Polyethylene Bottle
G = Glass Bottle
T = BrassTube
O = Other (describe)

DAILY LOG	DATE	10	30	91
	NO.			
	SHEET	1	OF	1

FIELD ACTIVITY DAILY LOG

PROJECT NAME: LFMR

PROJECT NO. 128-4001-432

FIELD ACTIVITY SUBJECT: AWSF SAMPLING

DESCRIPTION OF DAILY ACTIVITIES AND EVENTS:

0645 ON SITE
0700 TSM, COLLECT SUPPLIES / H/S SET-UP

0730 COLLECT SAMPLES SIGN-IN ON HWP

PID			SAMPLE TIME		SAMPLE ID
Neg	LOCATION 2,	SURFACE-6'	0735	SILTY CLAY	MFSS0006
Neg	LOCATION 2,	18-24'	0750	SILTY CLAY	0007
Neg	LOCATION 6,	SURFACE-6'	0755	SILTY CLAY 15% GRAVEL	0008
Neg	LOCATION 6,	12'-24'	0805	SILTY CLAY 40% GRAVEL	0009

0810 SIGN OUT OF HWP, DE-MOB
0830 SAMPLE SHIPMENT PREP
TRIP BLANK MFWS0003 10.30.98 0830

1000 SHIP SAMPLES
11:00 OFF-SITE, STUDY RCT MATERIAL

VISITORS ON SITE:

CHANGES FROM PLANS AND SPECIFICATIONS, AND OTHER SPECIAL ORDERS AND IMPORTANT DECISIONS:

WEATHER CONDITIONS:

IMPORTANT TELEPHONE CALLS:

PERSONNEL ON SITE:

SIGNATURE: [signature]

DATE: 10.30.98

Weiss Associates
Environmental Science and Engineering Services
5500 Shellmound Street, Emeryville, CA 94608
Phone: 510-450-6000 Fax: 510-547-5043

LEHR Chain-of-Custody Record

9-10

Control Number: LEHR-MSF-02 CH# 36369

Project Name: LEHR MWSF
Project Number: 128-4001-432
Sampled by: JW/GC

Lab Name: GEL/EPI
Lab Address: 2040 Savage Road, Charleston, SC 29407
Lab Login:

Send Results To: Santiago Lee
Email: data@weiss.com
Fax: (510) 547-5043
Sampler's Signature:

	Sample ID	Sample Date	Sample Time	Matrix (1) / Container (2)	Number of Containers	Preservative Y/N (type)	Analysis requested: CLP – Volatiles (8260)	Radionuclides	Other	Additional Comments
1	WFSS0006	10.30.98	0735	S / T	1	4°C	X			Turnaround Time: 30 DAY TAT; H = Hold
2	0007		0750	/			X			
3	0008		0755	/			X			
4	0009		0805	/			X			
5	WFWS0003	10.30.98	0830	W / V	3	4°C/HCl	X			
6				/						
7				/						
8				/						
9				/						
10				/						

10/30/98

Signature	Company	Date	Time
Relinquished by:	WA	10.30.98	1000
Received by:	GEL	11-2-98	0900
Relinquished by:			
Received by:			
Relinquished by:			

Other Analysis

1. Reactive Cyanide by 7.3.3.2
2. Reactive Sulfide by 7.3.4.2
3. Paint Filter by 9095
4. Formaldehyde by AOAC
5. PH by 9095

(1) Matrix: S – Soil, W – Water, O – Other (describe)
(2) Container:
V= VOA Bottle
T= Brass Tube
P= Polyethylene Bottle
O= Other (describe)

APPENDIX D

RADIOLOGICAL AND CHEMICAL DATA SUMMARY

Table D1.1
LEHR Environmental Restoration
Analytical Results For Wood Samples, LEHR MWSF

RADs

Lab_chem	Background Levels	Units	MFWO0001				MFWO0002				MFWO0003			
			Value		Uncert	MDA	Value		Uncert	MDA	Value		Uncert	MDA
Actinium-228		PCI/G	0.0002	/U	0.203	0.213	0.0	/U	0.126	0.222	0.194	/U	0.142	0.244
Americium-241		PCI/G	-0.0005	/U	0.0021	0.0313	0.014	/U	0.0128	0.0203	-0.0022	/U	0.0099	0.0194
Bismuth-212		PCI/G	0.118	/U	0.217	0.36	0.385	/J	0.281	0.359	0.196	/U	0.288	0.48
Bismuth-214		PCI/G	0.0255	/U	0.0861	0.101	0.0	/U	0.0705	0.116	0.108	/U	0.138	0.144
Carbon-14		PCI/G	0.134	/U	1.67	2.88	2.34	/U	1.79	2.95	0.756	/U	1.92	3.26
Cesium-137		PCI/G	0.0325	/U	0.0281	0.048	0.0259	/U	0.0319	0.0524	**0.0755**	/J	0.0525	0.0555
Cobalt-60		PCI/G	-0.0078	/U	0.0323	0.0534	-0.0131	/U	0.0351	0.0567	0.0079	/U	0.0417	0.0718
Gross Alpha		PCI/G	1.26	/U	1.82	3.85	0.35	/U	0.76	1.67	0.458	/U	1.09	2.47
Lead-210		PCI/G	1.35	/U	2.51	3.26	1.06	/U	5.33	3.8	1.51	/U	3.45	4.39
Lead-212		PCI/G	0.0239	/U	0.0815	0.0789	0.0	/U	0.127	0.0951	0.0029	/U	0.109	0.0853
Lead-214		PCI/G	0.0	/U	0.0554	0.0888	0.0789	/U	0.114	0.0941	0.101	/U	0.0767	0.12
Nonvolatile Beta		PCI/G	0.899	/U	2.42	5.43	-0.13	/U	2.07	4.87	2.22	/U	2.25	4.73
Plutonium-238		PCI/G	0.0209	/U	0.0286	0.0538	-0.0001	/U	0.0127	0.033	0.0038	/U	0.0179	0.0397
Plutonium-239/240		PCI/G	0.0105	/U	0.0164	0.0314	0.0029	/U	0.0094	0.0228	0.0092	/U	0.0144	0.0276
Plutonium-241		PCI/G	-2.55	/U	4.36	7.58	0.0	/U	3.88	6.65	-1.58	/U	2.78	4.83
Potassium-40		PCI/G	3.11		1.03	0.459	1.07		0.834	0.529	2.77		1.04	0.649
Radium-226		PCI/G	0.0	/U	0.145	0.25	0.0	/U	0.126	0.117	0.0	/U	0.0853	0.142
Strontium-89		PCI/G	0.0968	/U	0.063	0.143	-0.0049	/U	0.0532	0.131	0.0602	/U	0.0586	0.136
Strontium-89,90		PCI/G	0.0757	/U	0.0641	0.106	0.0169	/U	0.0567	0.0966	0.0671	/U	0.0609	0.101
Strontium-90		PCI/G	0.0039	/U	0.102	0.177	-0.0205	/U	0.0969	0.169	0.0218	/U	0.105	0.18
Thallium-208		PCI/G	0.0335	/U	0.0601	0.0544	0.0369	/U	0.0502	0.0605	0.0	/U	0.0394	0.0677
Thorium-234		PCI/G	0.0	/U	0.953	1.28	0.0	/U	1.35	1.54	0.0	/U	1.19	1.5
Tritium		PCI/G	-0.823	/U	6.03	10.4	1.51	/U	5.82	9.94	3.71	/U	6.42	10.9
Uranium-235		PCI/G	0.0443	/U	0.272	0.227	0.227	/U	0.185	0.273	0.102	/U	0.188	0.287
Uranium-238		PCI/G	0.0	/U	0.953	1.28	0.0	/U	1.35	1.54	0.0	/U	1.19	1.5
Weight of Sample, A&B		MG	9		NA	0.0	5		NA	0.0	9.7		NA	0.0
Weight of Sample, SR-89		MG	8.3		NA	0.0	8.4		NA	0.0	7.9		NA	0.0
Weight of Sample, SR-90		MG	27		NA	0.0	27.3		NA	0.0	28.8		NA	0.0

Table D1.2
LEHR Environmental Restoration
Analytical Results For Wood Samples, LEHR MWSF

Volatile Organics by CLP

Location			MFWO0001		MFWO0001DL		MFWO0002		MFWO0003	
Date	Background Level	UNITS	, '		, '		, '		, '	
1,1,1-Trichloroethane		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
1,1,2,2-Tetrachloroethane		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	UJc/U	<2,720	UJc/U
1,1,2-Trichloroethane		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
1,1-Dichloroethane		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
1,1-Dichloroethylene		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
1,2-Cis-Dichloroethylene		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
1,2-Dichloroethane		UG/KG	<26.9	UJic/U	<2,690	UJc/U	<2,720	UJc/U	<2,720	UJc/U
1,2-Dichloropropane		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
1,2-Trans-Dichloroethylene		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
2-Butanone		UG/KG	<53.8	Ric/U	<5,380	Rc/U	<5,430	Rc/U	<5,430	Rc/U
2-Hexanone		UG/KG	395	Ji/	272	Jq/DJ	<5,430	/U	<5,430	/U
4-Methyl-2-Pentanone		UG/KG	194	Ji/	<5,380	/U	<5,430	UJc/U	<5,430	UJc/U
Acetone		UG/KG	433	Jic/	<5,380	UJc/U	<5,430	UJc/U	<5,430	UJc/U
Benzene		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Bromoform		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Carbon Disulfide		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Carbon Tetrachloride		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Chlorobenzene		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Chlorodibromomethane		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Chloroethane		UG/KG	<53.8	UJic/U	<5,380	/U	<5,430	/U	<5,430	/U
Chloroform		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
cis-1,3-Dichloropropene		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Dichlorobromomethane		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
EthylBenzene		UG/KG	1,710	Jiq/E	5,600		3,140		2,330	Jq/J
Methyl Bromide		UG/KG	<53.8	UJic/U	<5,380	UJc/U	<5,430	UJc/U	<5,430	UJc/U
Methyl Chloride		UG/KG	<53.8	UJic/U	<5,380	UJc/U	<5,430	UJc/U	<5,430	UJc/U
Methylene Chloride		UG/KG	6,550	Jiq/EB	6,010	UJz/DB	6,040	UJz/	14,400	UJz/

Table D1.2
LEHR Environmental Restoration
Analytical Results For Wood Samples, LEHR MWSF

Volatile Organics by CLP

Location			MFWO0001		MFWO0001DL		MFWO0002		MFWO0003	
Date	Background Level	UNITS	, '		, '		, '		, '	
Styrene		UG/KG	176	Ji/	949	Jq/DJ	544	Jq/J	477	Jq/J
Tetrachloroethene		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Toluene		UG/KG	73.4	Ji/	<2,690	/U	<2,720	/U	<2,720	/U
trans-1,3-Dichloropropene		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Trichloroethene		UG/KG	<26.9	UJi/U	<2,690	/U	<2,720	/U	<2,720	/U
Vinyl Chloride		UG/KG	<53.8	UJi/U	<5,380	/U	<5,430	/U	<5,430	/U
Xylenes (Total)		UG/KG	12,300	Jiq/E	69,800	Jq/DE	43,300		35,900	

Table D1.3
LEHR Environmental Restoration
Analytical Results For Wood Samples, LEHR MWSF

Semivolatile Organics by CLP

Location Date	Background Level	UNITS	MFWO0001		MFWO0001DL	MFWO0002		MFWO0003	
1,2,4-Trichlorobenzene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
1,2-Dichlorobenzene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
1,3-Dichlorobenzene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
1,4-Dichlorobenzene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2,2'-oxybis(1-Chloropropane)		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2,4,5-Trichlorophenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2,4,6-Trichlorophenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2,4-Dichlorophenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2,4-Dimethylphenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2,4-Dinitrophenol		UG/KG	<22,000	/U	NA	<18,700	/U	<22,200	/U
2,4-Dinitrotoluene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2,6-Dinitrotoluene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2-Chloronaphthalene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2-Chlorophenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2-Methyl-4,6-dinitrophenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2-Methylnaphthalene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
2-Nitrophenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
3,3'-Dichlorobenzidine		UG/KG	<55,100	/U	NA	<46,600	/U	<55,400	/U
4-Bromophenyl Phenyl Ether		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
4-Chloro-3-Methylphenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
4-Chloroaniline		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
4-Chlorophenyl Phenyl Ether		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
4-Nitrophenol		UG/KG	<11,000	UJc/U	NA	<9,330	UJc/U	<11,100	UJc/U
Acenaphthene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Acenaphthylene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Anthracene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Benzo(a)anthracene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U

Table D1.3
LEHR Environmental Restoration
Analytical Results For Wood Samples, LEHR MWSF

Semivolatile Organics by CLP

Location Date	Background Level	UNITS	MFWO0001 , '		MFWO0001DL , '	MFWO0002 , '		MFWO0003 , '	
Benzo(a)pyrene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Benzo(b)fluoranthene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Benzo(g,h,i)perylene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Benzo(k)fluoranthene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Bis(2-Chloroethoxy)methane		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Bis(2-Chloroethyl)ether		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Bis(2-Ethylhexyl)phthalate		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Butyl Benzyl Phthalate		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Carbazole		UG/KG	<55,100	UJc/U	NA	<46,600	UJc/U	<55,400	UJc/U
Chrysene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Di-n-Butylphthalate		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Di-n-Octylphthalate		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Dibenzo(a,h)anthracene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Dibenzofuran		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Diethyl Phthalate		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Dimethyl Phthalate		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Fluoranthene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Fluorene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Hexachlorobenzene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Hexachlorobutadiene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Hexachlorocyclopentadiene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Hexachloroethane		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Indeno(1,2,3-cd)pyrene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Isophorone		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
m,p-Cresol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
M-Nitroaniline		UG/KG	<11,000	UJc/U	NA	<9,330	UJc/U	<11,100	UJc/U
N-Nitrosodiphenylamine		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U

Table D1.3
LEHR Environmental Restoration
Analytical Results For Wood Samples, LEHR MWSF

Semivolatile Organics by CLP

Location Date	Background Level	UNITS	MFWO0001		MFWO0001DL	MFWO0002		MFWO0003	
N-Nitrosodipropylamine		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Naphthalene		UG/KG	7,430	Jq/J	NA	<9,330	/U	5,630	Jq/J
Nitrobenzene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
O-Cresol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
O-Nitroaniline		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
P-Nitroaniline		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Pentachlorophenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Phenanthrene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Phenol		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U
Pyrene		UG/KG	<11,000	/U	NA	<9,330	/U	<11,100	/U

Table D1.4
LEHR Environmental Restoration
Analytical Results For Wood Samples, LEHR MWSF

General Chemistry

Location			MFWO0001	MFWO0001DL	MFWO0002	MFWO0003
Date	Background Level	UNITS	, '	, '	, '	, '
Evaporative Loss @ 105 C		WT%	7	NA	8	8
Formaldehyde		MG/KG	424	NA	133	403

Table D2.1
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Volatile Organics by CLP

	Background Level	UNITS	MFWI0001		MFWI0001D		MFWI0001DL		MFWI0002		MFWI0002DL	
			, '		, '		, '		, '		, '	
1,1,1-Trichloroethane		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
1,1,2,2-Tetrachloroethane		UG	<250	/U	<250	/U	<500	UJc/U	<250	/U	<5,000	UJc/U
1,1,2-Trichloroethane		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
1,1-Dichloroethane		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
1,1-Dichloroethylene		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
1,2-Cis-Dichloroethylene		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
1,2-Dichloroethane		UG	<250	UJc/U	<250	UJc/U	<500	UJc/U	<250	UJc/U	<5,000	UJc/U
1,2-Dichloropropane		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
1,2-Trans-Dichloroethylene		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
2-Butanone		UG	2,450	UJzc/	3,050	UJzc/	4,870	UJzc/D	3,000	UJzc/	13,000	UJzc/D
2-Hexanone		UG	<500	/U	<500	/U	<1,000	/U	<500	/U	<10,000	/U
4-Methyl-2-Pentanone		UG	<500	/U	<500	/U	<1,000	UJc/U	<500	/U	<10,000	UJc/U
Acetone		UG	<500	UJc/U	<500	UJc/U	<1,000	UJc/U	<500	UJc/U	<10,000	UJc/U
Benzene		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
Bromoform		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
Carbon Disulfide		UG	76	UJzq/J	141	UJzq/J	743	UJz/D	<250	/U	<5,000	/U
Carbon Tetrachloride		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
Chlorobenzene		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
Chlorodibromomethane		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
Chloroethane		UG	<500	/U	<500	/U	<1,000	/U	<500	/U	<10,000	/U
Chloroform		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
cis-1,3-Dichloropropene		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
Dichlorobromomethane		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
EthylBenzene		UG	298		<250	/U	<500	/U	57.7	Jq/J	<5,000	/U
Methyl Bromide		UG	156	UJcq/J	<500	UJc/U	296	UJcq/JD	149	Jcq/J	<10,000	UJc/U
Methyl Chloride		UG	<500	UJc/U	<500	UJc/U	<1,000	UJc/U	<500	UJc/U	<10,000	UJc/U

Table D2.1
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Volatile Organics by CLP

	Background Level	UNITS	MFWI0001		MFWI0001D		MFWI0001DL		MFWI0002		MFWI0002DL	
Methylene Chloride		UG	3,800	UJz/B	6,080	JJzq/EE	6,650	UJz/D	68,200	JJzq/EE	90,900	UJz/D
Styrene		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
Tetrachloroethene		UG	<250	/U	26.4	Jq/J	<500	/U	<250	/U	<5,000	/U
Toluene		UG	221	Jq/J	<250	/U	<500	/U	<250	/U	<5,000	/U
trans-1,3-Dichloropropene		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
Trichloroethene		UG	<250	/U	<250	/U	<500	/U	<250	/U	<5,000	/U
Vinyl Chloride		UG	<500	/U	<500	/U	<1,000	/U	<500	/U	<10,000	/U
Xylenes (Total)		UG	2,190		318		519	/D	1,350		5,000	/D

Table D2.1
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Volatile Organics by CLP

Location			MFWI0003		MFWI0003DL		MFWI0004		MFWI0004DL	
Date	Background Level	UNITS	, '		, '		, '		, '	
1,1,1-Trichloroethane		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
1,1,2,2-Tetrachloroethane		UG	<250	/U	<2,500	UJc/U	<250	/U	<2,500	UJc/U
1,1,2-Trichloroethane		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
1,1-Dichloroethane		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
1,1-Dichloroethylene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
1,2-Cis-Dichloroethylene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
1,2-Dichloroethane		UG	<250	UJc/U	<2,500	UJc/U	<250	UJc/U	<2,500	UJc/U
1,2-Dichloropropane		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
1,2-Trans-Dichloroethylene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
2-Butanone		UG	3,140	UJzc/	6,660	UJzc/D	3,020	Jc/	<5,000	Rc/U
2-Hexanone		UG	<500	/U	<5,000	/U	<500	/U	<5,000	/U
4-Methyl-2-Pentanone		UG	<500	/U	<5,000	UJc/U	<500	/U	<5,000	UJc/U
Acetone		UG	<500	UJc/U	<5,000	UJc/U	1,060	Jc/	<5,000	UJc/U
Benzene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Bromoform		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Carbon Disulfide		UG	<250	/U	<2,500	/U	40.7	Jq/J	454	Jq/DJ
Carbon Tetrachloride		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Chlorobenzene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Chlorodibromomethane		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Chloroethane		UG	<500	/U	<5,000	/U	<500	/U	<5,000	/U
Chloroform		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
cis-1,3-Dichloropropene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Dichlorobromomethane		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
EthylBenzene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Methyl Bromide		UG	<500	UJc/U	<5,000	UJc/U	<500	UJc/U	<5,000	UJc/U
Methyl Chloride		UG	<500	UJc/U	<5,000	UJc/U	<500	UJc/U	<5,000	UJc/U
Methylene Chloride		UG	21,400	JJzq/EE	25,200	UJz/D	13,700	Jq/EB	18,600	/D

Table D2.1
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Volatile Organics by CLP

Location			MFWI0003		MFWI0003DL		MFWI0004		MFWI0004DL	
Date	Background Level	UNITS	, '		, '		, '		, '	
Styrene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Tetrachloroethene		UG	67.1	Jq/J	<2,500	/U	<250	/U	<2,500	/U
Toluene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
trans-1,3-Dichloropropene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Trichloroethene		UG	<250	/U	<2,500	/U	<250	/U	<2,500	/U
Vinyl Chloride		UG	<500	/U	<5,000	/U	<500	/U	<5,000	/U
Xylenes (Total)		UG	352		2,420	Jq/JD	<250	/U	<2,500	/U

Table D2.2
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Semivolatile Organics by CLP

	Background Level	UNITS	MFWI0001		MFWI0001D		MFWI0001DL	MFWI0002		MFWI0002DL
1,2,4-Trichlorobenzene		UG	<20	/U	<40	/U	NA	<10	/U	NA
1,2-Dichlorobenzene		UG	<20	/U	<40	/U	NA	<10	/U	NA
1,3-Dichlorobenzene		UG	<20	/U	<40	/U	NA	<10	/U	NA
1,4-Dichlorobenzene		UG	<20	/U	<40	/U	NA	<10	/U	NA
2,2'-oxybis(1-Chloropropane)		UG	<20	/U	<40	/U	NA	<10	/U	NA
2,4,5-Trichlorophenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
2,4,6-Trichlorophenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
2,4-Dichlorophenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
2,4-Dimethylphenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
2,4-Dinitrophenol		UG	<40	UJc/U	<80	UJc/U	NA	<20	UJc/U	NA
2,4-Dinitrotoluene		UG	<20	/U	<40	/U	NA	<10	/U	NA
2,6-Dinitrotoluene		UG	<20	/U	<40	/U	NA	<10	/U	NA
2-Chloronaphthalene		UG	<20	/U	<40	/U	NA	<10	/U	NA
2-Chlorophenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
2-Methyl-4,6-dinitrophenol		UG	<20	UJc/U	<40	UJc/U	NA	<10	UJc/U	NA
2-Methylnaphthalene		UG	<20	/U	<40	/U	NA	<10	/U	NA
2-Nitrophenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
3,3'-Dichlorobenzidine		UG	<100	UJc/U	<200	UJc/U	NA	<50	UJc/U	NA
4-Bromophenyl Phenyl Ether		UG	<20	/U	<40	/U	NA	<10	/U	NA
4-Chloro-3-Methylphenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
4-Chloroaniline		UG	<20	/U	<40	/U	NA	<10	/U	NA
4-Chlorophenyl Phenyl Ether		UG	<20	/U	<40	/U	NA	<10	/U	NA
4-Nitrophenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
Acenaphthene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Acenaphthylene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Anthracene		UG	<20	/U	<40	/U	NA	<10	/U	NA

Table D2.2
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Semivolatile Organics by CLP

	Background Level	UNITS	MFWI0001		MFWI0001D		MFWI0001DL	MFWI0002		MFWI0002DL
			, '		, '		, '	, '		, '
Benzo(a)anthracene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Benzo(a)pyrene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Benzo(b)fluoranthene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Benzo(g,h,i)perylene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Benzo(k)fluoranthene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Bis(2-Chloroethoxy)methane		UG	<20	/U	<40	/U	NA	<10	/U	NA
Bis(2-Chloroethyl)ether		UG	<20	/U	<40	/U	NA	<10	/U	NA
Bis(2-Ethylhexyl)phthalate		UG	<20	/U	<40	/U	NA	<10	/U	NA
Butyl Benzyl Phthalate		UG	<20	/U	<40	/U	NA	<10	/U	NA
Carbazole		UG	<100	/U	<200	/U	NA	<50	/U	NA
Chrysene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Di-n-Butylphthalate		UG	<20	/U	<40	/U	NA	<10	/U	NA
Di-n-Octylphthalate		UG	<20	/U	<40	/U	NA	<10	/U	NA
Dibenzo(a,h)anthracene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Dibenzofuran		UG	<20	/U	<40	/U	NA	<10	/U	NA
Diethyl Phthalate		UG	<20	/U	229	UJz/	NA	<10	/U	NA
Dimethyl Phthalate		UG	<20	/U	<40	/U	NA	<10	/U	NA
Fluoranthene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Fluorene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Hexachlorobenzene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Hexachlorobutadiene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Hexachlorocyclopentadiene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Hexachloroethane		UG	<20	/U	<40	/U	NA	<10	/U	NA
Indeno(1,2,3-cd)pyrene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Isophorone		UG	<20	/U	<40	/U	NA	<10	/U	NA
m,p-Cresol		UG	<20	/U	<40	/U	NA	<10	/U	NA

Table D2.2
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Semivolatile Organics by CLP

	Background Level	UNITS	MFWI0001		MFWI0001D		MFWI0001DL	MFWI0002		MFWI0002DL
			, '		, '		, '	, '		, '
M-Nitroaniline		UG	<20	/U	<40	/U	NA	<10	/U	NA
N-Nitrosodiphenylamine		UG	<20	/U	<40	/U	NA	<10	/U	NA
N-Nitrosodipropylamine		UG	<20	/U	<40	/U	NA	<10	/U	NA
Naphthalene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Nitrobenzene		UG	<20	/U	<40	/U	NA	<10	/U	NA
O-Cresol		UG	<20	/U	<40	/U	NA	<10	/U	NA
O-Nitroaniline		UG	<20	/U	<40	/U	NA	<10	/U	NA
P-Nitroaniline		UG	<20	/U	<40	/U	NA	<10	/U	NA
Pentachlorophenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
Phenanthrene		UG	<20	/U	<40	/U	NA	<10	/U	NA
Phenol		UG	<20	/U	<40	/U	NA	<10	/U	NA
Pyrene		UG	<20	/U	<40	/U	NA	<10	/U	NA

Table D2.2
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Semivolatile Organics by CLP

Location Date	Background Level	UNITS	MFWI0003		MFWI0003DL	MFWI0004		MFWI0004DL
1,2,4-Trichlorobenzene		UG	<40	/U	NA	<40	/U	NA
1,2-Dichlorobenzene		UG	<40	/U	NA	<40	/U	NA
1,3-Dichlorobenzene		UG	<40	/U	NA	<40	/U	NA
1,4-Dichlorobenzene		UG	<40	/U	NA	<40	/U	NA
2,2'-oxybis(1-Chloropropane)		UG	<40	/U	NA	<40	/U	NA
2,4,5-Trichlorophenol		UG	<40	/U	NA	<40	/U	NA
2,4,6-Trichlorophenol		UG	<40	/U	NA	<40	/U	NA
2,4-Dichlorophenol		UG	<40	/U	NA	<40	/U	NA
2,4-Dimethylphenol		UG	<40	/U	NA	<40	/U	NA
2,4-Dinitrophenol		UG	<80	/U	NA	<80	/U	NA
2,4-Dinitrotoluene		UG	<40	/U	NA	<40	/U	NA
2,6-Dinitrotoluene		UG	<40	/U	NA	<40	/U	NA
2-Chloronaphthalene		UG	<40	/U	NA	<40	/U	NA
2-Chlorophenol		UG	<40	/U	NA	<40	/U	NA
2-Methyl-4,6-dinitrophenol		UG	<40	/U	NA	<40	/U	NA
2-Methylnaphthalene		UG	<40	/U	NA	<40	/U	NA
2-Nitrophenol		UG	<40	/U	NA	<40	/U	NA
3,3'-Dichlorobenzidine		UG	<200	/U	NA	<200	/U	NA
4-Bromophenyl Phenyl Ether		UG	<40	/U	NA	<40	/U	NA
4-Chloro-3-Methylphenol		UG	<40	/U	NA	<40	/U	NA
4-Chloroaniline		UG	<40	/U	NA	<40	/U	NA
4-Chlorophenyl Phenyl Ether		UG	<40	/U	NA	<40	/U	NA
4-Nitrophenol		UG	<40	UJc/U	NA	<40	UJc/U	NA
Acenaphthene		UG	<40	/U	NA	<40	/U	NA
Acenaphthylene		UG	<40	/U	NA	<40	/U	NA
Anthracene		UG	<40	/U	NA	<40	/U	NA
Benzo(a)anthracene		UG	<40	/U	NA	<40	/U	NA

Table D2.2
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Semivolatile Organics by CLP

Location Date	Background Level	UNITS	MFWI0003 , '		MFWI0003DL , '	MFWI0004 , '		MFWI0004DL , '
Benzo(a)pyrene		UG	<40	/U	NA	<40	/U	NA
Benzo(b)fluoranthene		UG	<40	/U	NA	<40	/U	NA
Benzo(g,h,i)perylene		UG	<40	/U	NA	<40	/U	NA
Benzo(k)fluoranthene		UG	<40	/U	NA	<40	/U	NA
Bis(2-Chloroethoxy)methane		UG	<40	/U	NA	<40	/U	NA
Bis(2-Chloroethyl)ether		UG	<40	/U	NA	<40	/U	NA
Bis(2-Ethylhexyl)phthalate		UG	<40	/U	NA	<40	/U	NA
Butyl Benzyl Phthalate		UG	<40	/U	NA	<40	/U	NA
Carbazole		UG	<200	UJc/U	NA	<200	UJc/U	NA
Chrysene		UG	<40	/U	NA	<40	/U	NA
Di-n-Butylphthalate		UG	<40	/U	NA	<40	/U	NA
Di-n-Octylphthalate		UG	<40	/U	NA	<40	/U	NA
Dibenzo(a,h)anthracene		UG	<40	/U	NA	<40	/U	NA
Dibenzofuran		UG	<40	/U	NA	<40	/U	NA
Diethyl Phthalate		UG	66.2	UJz/U	NA	<40	/U	NA
Dimethyl Phthalate		UG	<40	/U	NA	<40	/U	NA
Fluoranthene		UG	<40	/U	NA	<40	/U	NA
Fluorene		UG	<40	/U	NA	<40	/U	NA
Hexachlorobenzene		UG	<40	/U	NA	<40	/U	NA
Hexachlorobutadiene		UG	<40	/U	NA	<40	/U	NA
Hexachlorocyclopentadiene		UG	<40	/U	NA	<40	/U	NA
Hexachloroethane		UG	<40	/U	NA	<40	/U	NA
Indeno(1,2,3-cd)pyrene		UG	<40	/U	NA	<40	/U	NA
Isophorone		UG	<40	/U	NA	<40	/U	NA
m,p-Cresol		UG	<40	/U	NA	<40	/U	NA
M-Nitroaniline		UG	<40	UJc/U	NA	<40	UJc/U	NA
N-Nitrosodiphenylamine		UG	<40	/U	NA	<40	/U	NA

Table D2.2
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

Semivolatile Organics by CLP

Location Date	Background Level	UNITS	MFWI0003		MFWI0003DL	MFWI0004		MFWI0004DL
			, '		, '	, '		, '
N-Nitrosodipropylamine		UG	<40	/U	NA	<40	/U	NA
Naphthalene		UG	<40	/U	NA	<40	/U	NA
Nitrobenzene		UG	<40	/U	NA	<40	/U	NA
O-Cresol		UG	<40	/U	NA	<40	/U	NA
O-Nitroaniline		UG	<40	/U	NA	<40	/U	NA
P-Nitroaniline		UG	<40	/U	NA	<40	/U	NA
Pentachlorophenol		UG	<40	/U	NA	<40	/U	NA
Phenanthrene		UG	<40	/U	NA	<40	/U	NA
Phenol		UG	<40	/U	NA	<40	/U	NA
Pyrene		UG	<40	/U	NA	<40	/U	NA

Table D2.3
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

General Chemistry

	Background Level	UNITS	MFWI0001		MFWI0001D		MFWI0001DL	MFWI0002		MFWI0002DL
			, '		, '		, '	, '		, '
Formaldehyde		MG/WI	0.0941	UJz/J	0.0447	UJz/J	NA	0.236	UJz/J	NA

Table D2.3
LEHR Environmental Restoration
Analytical Results For Wipe Samples, LEHR MWSF

General Chemistry

Location			MFWI0003		MFWI0003DL	MFWI0004		MFWI0004DL
Date	Background Level	UNITS	, '		, '	, '		, '
Formaldehyde		MG/WI	0.23	UJz/J	NA	0.135	/J	NA

Table D3.1
LEHR Environmental Restoration
Analytical Results For Soil Samples, Lehr MWSF

RADs

Lab_chem	Background Levels	Units	MFSS0001				MFSS0002				MFSS0003				MFSS0004			
			Value		Uncert	MDA	Value		Uncert	MDA	Value		Uncert	MDA	Value		Uncert	MDA
Actinium-228	0.64	PCI/G	0.364	/J	0.103	0.0651	0.223	/J	0.0727	0.0533	0.4	/J	0.0884	0.0593	0.615		0.185	0.11
Americium-241	0.014	PCI/G	0.0041	/U	0.0059	0.0201	-0.0088	/U	0.0171	0.0278	0.012	/U	0.0136	0.0299	0.0065	/U	0.0095	0.0271
Bismuth-212	0.43	PCI/G	0.253	/J	0.15	0.145	0.162	/J	0.116	0.0952	0.3	/J	0.114	0.127	0.245	/U	0.262	0.263
Bismuth-214	0.54	PCI/G	0.251		0.0588	0.0346	0.201		0.0406	0.0267	0.323		0.0568	0.0291	0.395		0.101	0.0691
Carbon-14	0.13	PCI/G	-0.0112	/U	0.675	1.17	-0.341	/U	0.701	1.24	0.154	/U	0.76	1.3	0.0293	/U	0.755	1.31
Cesium-137	0.043	PCI/G	0.0065	/U	0.0129	0.0209	0.0	/U	0.0141	0.0262	0.076	/J	0.0218	0.0154	0.0649	/J	0.0332	0.0365
Cobalt-60	0.006	PCI/G	0.0054	/U	0.0114	0.0213	0.0015	/U	0.0089	0.0158	0.0003	/U	0.0094	0.0172	0.0068	/U	0.017	0.0324
Gross Alpha	8.7	PCI/G	5.24		2.45	2.74	2.22	/U	2.08	3.66	5.23		2.61	3.1	8.12		3.09	3.11
Lead-210	1.6	PCI/G	2.37	/J	2.58	2.21	1.44	/U	3.47	2.9	0.372	/J	0.203	0.195	1.25	/U	2.09	1.89
Lead-212	0.7	PCI/G	0.337		0.0488	0.0273	0.268		0.0426	0.0228	0.401		0.0579	0.0226	0.465		0.0767	0.0472
Lead-214	0.58	PCI/G	0.327		0.063	0.0354	0.291		0.0523	0.0289	0.37		0.065	0.0281	0.426		0.0965	0.065
Nonvolatile Beta	15	PCI/G	5.27	/U	2.79	5.39	9.12	/J	3.04	5.19	13.5		3.37	5.26	10.1		3.17	5.44
Plutonium-238		PCI/G	-0.0163	/U	0.005	0.0294	-0.029	/U	0.0096	0.0311	-0.0982	/U	0.0499	0.0483	-0.0567	/U	0.0204	0.0101
Plutonium-239/240		PCI/G	0.0245	/U	0.0214	0.0294	0.013	/U	0.0206	0.0359	0.02	/U	0.019	0.0273	0.0304	/U	0.0245	0.0323
Plutonium-241	0.5	PCI/G	-4.61	/U	3.12	6.41	-4.16	/U	3.46	7.06	-4.94	/U	2.94	6.08	-5.55	/U	3.01	6.25
Potassium-40	14	PCI/G	5.5		0.697	0.17	4.87		0.607	0.141	7.53		0.835	0.158	8.57		1.11	0.311
Radium-226	0.75	PCI/G	0.267	/J	0.0608	0.0446	0.262	/J	0.071	0.0423	0.379	/J	0.0899	0.0501	0.399	/J	0.0866	0.0512
Strontium-89		PCI/G	0.0698	/U	0.272	0.657	-0.0113	/U	0.245	0.601	-0.228	/U	0.247	0.629	-1.11	/U	0.282	0.818
Strontium-89,90		PCI/G	0.175	/U	0.283	0.478	0.158	/U	0.257	0.433	0.0278	/U	0.261	0.447	-0.0322	/U	0.339	0.584
Strontium-90	0.056	PCI/G	-0.121	/U	0.394	0.687	-0.16	/U	0.378	0.662	-0.183	/U	0.361	0.633	-0.745	/U	0.504	0.914
Thallium-208	0.22	PCI/G	0.0859	/J	0.0285	0.0187	0.0792	/J	0.0215	0.0129	0.127	/J	0.0276	0.0151	0.185	/J	0.0542	0.0331
Thorium-234	0.78	PCI/G	0.645	/J	0.746	0.632	1	/J	0.977	0.61	0.554	/J	0.26	0.208	0.131	/U	1.16	1.04
Tritium	1.2	PCI/G	-3.18	/U	2.65	4.75	-3.36	/U	2.93	5.26	-1.41	/U	2.67	4.68	-2.33	/U	2.36	4.21
Uranium-235	0.039	PCI/G	0.039	/U	0.0791	0.103	0.0415	/U	0.0469	0.0887	0.0315	/U	0.0437	0.0825	0.186	/U	0.178	0.2
Uranium-238	0.65	PCI/G	0.645	/J	0.746	0.632	1		0.977	0.61	0.554	/J	0.26	0.208	0.131	/U	1.16	1.04
Weight of Sample, A&B		MG	26.5		NA	0.0	31.2		NA	0.0	35.2		NA	0.0	32.3		NA	0.0
Weight of Sample, SR-89		MG	7.3		NA	0.0	7.2		NA	0.0	7.6		NA	0.0	5.9		NA	0.0
Weight of Sample, SR-90		MG	29.9		NA	0.0	31.1		NA	0.0	32.2		NA	0.0	27.5		NA	0.0

Table D3.1
LEHR Environmental Restoration
Analytical Results For Soil Samples, Lehr MWSF

RADs

Lab_chem	Background Levels	Units	MFSS0005 , , Value		Uncert	MDA
Actinium-228	0.64	PCI/G	0.451	/J	0.11	0.0693
Americium-241	0.014	PCI/G	-0.0013	/U	0.0055	0.0223
Bismuth-212	0.43	PCI/G	**0.504**	/J	0.231	0.139
Bismuth-214	0.54	PCI/G	0.351		0.0666	0.0361
Carbon-14	0.13	PCI/G	-0.525	/U	0.751	1.33
Cesium-137	0.043	PCI/G	**0.0639**	/J	0.0183	0.0194
Cobalt-60	0.006	PCI/G	-0.0001	/U	0.0114	0.0203
Gross Alpha	8.7	PCI/G	4.94	/J	2.46	3.19
Lead-210	1.6	PCI/G	**2.24**	/J	1.71	1.62
Lead-212	0.7	PCI/G	0.467		0.0595	0.0272
Lead-214	0.58	PCI/G	0.409		0.0652	0.0336
Nonvolatile Beta	15	PCI/G	11.7		3.26	5.45
Plutonium-238		PCI/G	-0.0866	/U	0.0576	0.0744
Plutonium-239/240		PCI/G	0.0352	/U	0.0266	0.0353
Plutonium-241	0.5	PCI/G	-2.13	/U	3.23	6.5
Potassium-40	14	PCI/G	8.78		1.04	0.208
Radium-226	0.75	PCI/G	0.376	/J	0.0664	0.0393
Strontium-89		PCI/G	-0.243	/U	0.228	0.581
Strontium-89,90		PCI/G	0.0737	/U	0.246	0.418
Strontium-90	0.056	PCI/G	0.243	/U	0.328	0.554
Thallium-208	0.22	PCI/G	0.137	/J	0.0327	0.0183
Thorium-234	0.78	PCI/G	0.754	/J	0.575	0.55
Tritium	1.2	PCI/G	-1.79	/U	3.13	5.49
Uranium-235	0.039	PCI/G	0.0232	/U	0.0825	0.103
Uranium-238	0.65	PCI/G	**0.754**	/J	0.575	0.55
Weight of Sample, A&B		MG	27.2		NA	0.0
Weight of Sample, SR-89		MG	7.6		NA	0.0
Weight of Sample, SR-90		MG	29.3		NA	0.0

Table D3.2
LEHR Environmental Restoration
Analytical Results For Soil Samples, LEHR MWSF

Volatile Organics by CLP

	Background Level	UNITS	MFSS0001		MFSS0002		MFSS0003		MFSS0004		MFSS0005	
1,1,1-Trichloroethane		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
1,1,2,2-Tetrachloroethane		UG/KG	<5.3	/U	2.8	Jig/J	<5.5	/U	<5.2	/U	<6	/U
1,1,2-Trichloroethane		UG/KG	<5.3	/U	1.1	Jig/J	<5.5	/U	<5.2	/U	<6	/U
1,1-Dichloroethane		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	UJc/U
1,1-Dichloroethylene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
1,2-Cis-Dichloroethylene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
1,2-Dichloroethane		UG/KG	<5.3	UJc/U	<5.8	UJic/U	<5.5	UJc/U	<5.2	UJc/U	<6	/U
1,2-Dichloropropane		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
1,2-Trans-Dichloroethylene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
2-Butanone		UG/KG	<10.5	Rc/U	16.7	Jic/	<11	Rc/U	<10.3	Rc/U	<11.9	Rc/U
2-Hexanone		UG/KG	<10.5	/U	35.6	Ji/	<11	/U	<10.3	/U	<11.9	/U
4-Methyl-2-Pentanone		UG/KG	<10.5	/U	29.2	Ji/	<11	/U	<10.3	/U	<11.9	/U
Acetone		UG/KG	<10.5	/U	4.6	Jicq/J	<11	UJc/U	<10.3	UJc/U	<11.9	UJc/U
Benzene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Bromoform		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Carbon Disulfide		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Carbon Tetrachloride		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Chlorobenzene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Chlorodibromomethane		UG/KG	<5.3	/U	0.62	Jiq/J	<5.5	/U	<5.2	/U	<6	/U
Chloroethane		UG/KG	<10.5	UJc/U	<11.6	UJic/U	<11	UJc/U	<10.3	Jc/U	<11.9	UJc/U
Chloroform		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	0.63	UJzq/JB
cis-1,3-Dichloropropene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Dichlorobromomethane		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
EthylBenzene		UG/KG	<5.3	/U	<5.8	UJi/U	1.2	Jq/J	<5.2	/U	<6	/U
Methyl Bromide		UG/KG	<10.5	UJc/U	<11.6	UJic/U	<11	UJc/U	<10.3	UJc/U	<11.9	UJc/U
Methyl Chloride		UG/KG	<10.5	UJc/U	<11.6	UJic/U	<11	UJc/U	<10.3	UJc/U	<11.9	UJc/U

Table D3.2
LEHR Environmental Restoration
Analytical Results For Soil Samples, LEHR MWSF

Volatile Organics by CLP

	Background Level	UNITS	MFSS0001		MFSS0002		MFSS0003		MFSS0004		MFSS0005	
Methylene Chloride		UG/KG	5.8	UJz/B	47.5	UJzi/B	49.2	UJz/B	6.9	UJz/B	19.1	UJz/B
Styrene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Tetrachloroethene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Toluene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
trans-1,3-Dichloropropene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Trichloroethene		UG/KG	<5.3	/U	<5.8	UJi/U	<5.5	/U	<5.2	/U	<6	/U
Vinyl Chloride		UG/KG	<10.5	/U	<11.6	UJi/U	<11	/U	<10.3	/U	<11.9	/U
Xylenes (Total)		UG/KG	<5.3	/U	4.8	Jiq/J	13		<5.2	/U	<6	/U

Table D3.3
LEHR Environmental Restoration
Analytical Results For Soil Samples, LEHR MWSF

Semivolatile Organics by CLP

	Background Level	UNITS	MFSS0001		MFSS0002		MFSS0003		MFSS0004		MFSS0005	
1,2,4-Trichlorobenzene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
1,2-Dichlorobenzene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
1,3-Dichlorobenzene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
1,4-Dichlorobenzene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2,2'-oxybis(1-Chloropropane)		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2,4,5-Trichlorophenol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2,4,6-Trichlorophenol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2,4-Dichlorophenol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2,4-Dimethylphenol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2,4-Dinitrophenol		UG/KG	<2,800	/U	<775	UJc/U	<2,910	/U	<685	UJc/U	<794	UJc/U
2,4-Dinitrotoluene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2,6-Dinitrotoluene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2-Chloronaphthalene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2-Chlorophenol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2-Methyl-4,6-dinitrophenol		UG/KG	<1,400	/U	<388	UJc/U	<1,460	/U	<342	UJc/U	<397	UJc/U
2-Methylnaphthalene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
2-Nitrophenol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
3,3'-Dichlorobenzidine		UG/KG	<6,990	/U	<1,940	UJc/U	<7,280	/U	<1,710	UJc/U	<1,980	UJc/U
4-Bromophenyl Phenyl Ether		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
4-Chloro-3-Methylphenol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
4-Chloroaniline		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
4-Chlorophenyl Phenyl Ether		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
4-Nitrophenol		UG/KG	<1,400	UJc/U	<388	/U	<1,460	UJc/U	<342	/U	<397	/U
Acenaphthene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Acenaphthylene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Anthracene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U

Table D3.3
LEHR Environmental Restoration
Analytical Results For Soil Samples, LEHR MWSF

Semivolatile Organics by CLP

	Background Level	UNITS	MFSS0001		MFSS0002		MFSS0003		MFSS0004		MFSS0005	
			, '		, '		, '		, '		, '	
Benzo(a)anthracene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Benzo(a)pyrene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Benzo(b)fluoranthene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Benzo(g,h,i)perylene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Benzo(k)fluoranthene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Bis(2-Chloroethoxy)methane		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Bis(2-Chloroethyl)ether		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Bis(2-Ethylhexyl)phthalate		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Butyl Benzyl Phthalate		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Carbazole		UG/KG	<6,990	UJc/U	<1,940	/U	<7,280	UJc/U	<1,710	/U	<1,980	/U
Chrysene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Di-n-Butylphthalate		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Di-n-Octylphthalate		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Dibenzo(a,h)anthracene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Dibenzofuran		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Diethyl Phthalate		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Dimethyl Phthalate		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Fluoranthene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Fluorene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Hexachlorobenzene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Hexachlorobutadiene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Hexachlorocyclopentadiene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Hexachloroethane		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Indeno(1,2,3-cd)pyrene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Isophorone		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
m,p-Cresol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U

Table D3.3
LEHR Environmental Restoration
Analytical Results For Soil Samples, LEHR MWSF

Semivolatile Organics by CLP

	Background Level	UNITS	MFSS0001		MFSS0002		MFSS0003		MFSS0004		MFSS0005	
M-Nitroaniline		UG/KG	<1,400	UJc/U	<388	/U	<1,460	UJc/U	<342	/U	<397	/U
N-Nitrosodiphenylamine		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
N-Nitrosodipropylamine		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Naphthalene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Nitrobenzene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
O-Cresol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
O-Nitroaniline		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
P-Nitroaniline		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Pentachlorophenol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Phenanthrene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Phenol		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U
Pyrene		UG/KG	<1,400	/U	<388	/U	<1,460	/U	<342	/U	<397	/U

Table D3.4
LEHR Environmental Restoration
Analytical Results For Soil Samples, LEHR MWSF

General Chemistry

	Background Level	UNITS	MFSS0001		MFSS0002		MFSS0003		MFSS0004		MFSS0005
			, '		, '		, '		, '		, '
Evaporative Loss @ 105 C		WT%	5		14		9		3		16
Formaldehyde		MG/KG	0.187	/J	0.49	/J	0.283	/J	0.184	/J	1.31

Table D4.1
LEHR Environmental Restoration
Analytical Results For Rinsate Samples, Lehr MWSF

RADs

Lab_chem	Background Levels	Units	MFWS0001			
			Value		Uncert	MDA
Actinium-228		PCI/L	7.79	/U	6.92	14.2
Americium-241		PCI/L	0.0623	/U	0.0892	0.112
Bismuth-212		PCI/L	14	/U	17.9	24.8
Bismuth-214		PCI/L	4.85	/U	8.08	6.67
Carbon-14		PCI/L	4.4	/U	9.11	15.5
Cesium-137		PCI/L	-1.64	/U	2	3.3
Cobalt-60		PCI/L	-0.12	/U	1.77	3.39
Gross Alpha		PCI/L	0.0483	/U	0.409	0.961
Lead-210		PCI/L	80.6	/U	231	358
Lead-212		PCI/L	4.87	/U	3.63	6.62
Lead-214		PCI/L	4.96	/U	4.35	8.01
Nonvolatile Beta		PCI/L	0.399	/U	0.835	1.8
Plutonium-238		PCI/L	2.28		0.684	0.369
Plutonium-239/240		PCI/L	0.607	/J	0.37	0.468
Plutonium-241		PCI/L	-48.7	/U	37.6	76.8
Potassium-40		PCI/L	27.2	/U	37.7	35.1
Radium-226		PCI/L	0.0679	/U	0.48	0.816
Strontium-89		PCI/L	-1.63	/U	0.203	0.705
Strontium-89,90		PCI/L	0.0806	/U	0.35	0.597
Strontium-90		PCI/L	1.47		0.672	1.08
Thallium-208		PCI/L	2.29	/U	2.16	4.25
Thorium-234		PCI/L	72.7	/U	138	167
Tritium		PCI/L	-308	/U	327	596
Uranium-235		PCI/L	5.45	/U	11.9	21.2
Uranium-238		PCI/L	72.7	/U	138	144
Weight of Sample, A&B		MG	1.1		NA	0.0
Weight of Sample, SR-89		MG	7.2		NA	0.0
Weight of Sample, SR-90		MG	25.9		NA	0.0

Table D4.2
LEHR Environmental Restoration
Analytical Results For Rinsate Samples, LEHR MWSF

Volatile Organics by CLP

	Background Level	UNITS	MFWS0001	
1,1,1-Trichloroethane		UG/L	<5	/U
1,1,2,2-Tetrachloroethane		UG/L	<5	/U
1,1,2-Trichloroethane		UG/L	<5	/U
1,1-Dichloroethane		UG/L	<5	/U
1,1-Dichloroethylene		UG/L	<5	/U
1,2-Cis-Dichloroethylene		UG/L	<5	/U
1,2-Dichloroethane		UG/L	<5	/U
1,2-Dichloropropane		UG/L	<5	/U
1,2-Trans-Dichloroethylene		UG/L	<5	/U
2-Butanone		UG/L	<10	/U
2-Hexanone		UG/L	<10	/U
4-Methyl-2-Pentanone		UG/L	<10	/U
Acetone		UG/L	<10	/U
Benzene		UG/L	<5	/U
Bromoform		UG/L	<5	/U
Carbon Disulfide		UG/L	<5	/U
Carbon Tetrachloride		UG/L	<5	/U
Chlorobenzene		UG/L	<5	/U
Chlorodibromomethane		UG/L	<5	/U
Chloroethane		UG/L	<10	/U
Chloroform		UG/L	<5	/U
cis-1,3-Dichloropropene		UG/L	<5	/U
Dichlorobromomethane		UG/L	<5	/U
EthylBenzene		UG/L	<5	/U
Methyl Bromide		UG/L	<10	/U
Methyl Chloride		UG/L	<10	/U
Methylene Chloride		UG/L	5.7	

Table D4.2
LEHR Environmental Restoration
Analytical Results For Rinsate Samples, LEHR MWSF

Volatile Organics by CLP

	Background Level	UNITS	MFWS0001	
Styrene		UG/L	<5	/U
Tetrachloroethene		UG/L	<5	/U
Toluene		UG/L	<5	/U
trans-1,3-Dichloropropene		UG/L	<5	/U
Trichloroethene		UG/L	<5	/U
Vinyl Chloride		UG/L	<10	/U
Xylenes (Total)		UG/L	<5	/U

Table D4.3
LEHR Environmental Restoration
Analytical Results For Rinsate Samples, LEHR MWSF

Semivolatile Organics by CLP

	Background Level	UNITS	MFWS0001	
1,2,4-Trichlorobenzene		UG/L	<9.6	/U
1,2-Dichlorobenzene		UG/L	<9.6	/U
1,3-Dichlorobenzene		UG/L	<9.6	/U
1,4-Dichlorobenzene		UG/L	<9.6	/U
2,2'-oxybis(1-Chloropropane)		UG/L	<9.6	/U
2,4,5-Trichlorophenol		UG/L	<9.6	/U
2,4,6-Trichlorophenol		UG/L	<9.6	/U
2,4-Dichlorophenol		UG/L	<9.6	/U
2,4-Dimethylphenol		UG/L	<9.6	/U
2,4-Dinitrophenol		UG/L	<19.2	/U
2,4-Dinitrotoluene		UG/L	<9.6	/U
2,6-Dinitrotoluene		UG/L	<9.6	/U
2-Chloronaphthalene		UG/L	<9.6	/U
2-Chlorophenol		UG/L	<9.6	/U
2-Methyl-4,6-dinitrophenol		UG/L	<9.6	/U
2-Methylnaphthalene		UG/L	<9.6	/U
2-Nitrophenol		UG/L	<9.6	/U
3,3'-Dichlorobenzidine		UG/L	<48.1	/U
4-Bromophenyl Phenyl Ether		UG/L	<9.6	/U
4-Chloro-3-Methylphenol		UG/L	<9.6	/U
4-Chloroaniline		UG/L	<9.6	/U
4-Chlorophenyl Phenyl Ether		UG/L	<9.6	/U
4-Nitrophenol		UG/L	<9.6	/U
Acenaphthene		UG/L	<9.6	/U
Acenaphthylene		UG/L	<9.6	/U
Anthracene		UG/L	<9.6	/U
Benzo(a)anthracene		UG/L	<9.6	/U

Table D4.3
LEHR Environmental Restoration
Analytical Results For Rinsate Samples, LEHR MWSF

Semivolatile Organics by CLP

	Background Level	UNITS	MFWS0001	
Benzo(a)pyrene		UG/L	<9.6	/U
Benzo(b)fluoranthene		UG/L	<9.6	/U
Benzo(g,h,i)perylene		UG/L	<9.6	/U
Benzo(k)fluoranthene		UG/L	<9.6	/U
Bis(2-Chloroethoxy)methane		UG/L	<9.6	/U
Bis(2-Chloroethyl)ether		UG/L	<9.6	/U
Bis(2-Ethylhexyl)phthalate		UG/L	<9.6	/U
Butyl Benzyl Phthalate		UG/L	<9.6	/U
Carbazole		UG/L	<48.1	/U
Chrysene		UG/L	<9.6	/U
Di-n-Butylphthalate		UG/L	<9.6	/U
Di-n-Octylphthalate		UG/L	<9.6	/U
Dibenzo(a,h)anthracene		UG/L	<9.6	/U
Dibenzofuran		UG/L	<9.6	/U
Diethyl Phthalate		UG/L	0.83	/j
Dimethyl Phthalate		UG/L	<9.6	/U
Fluoranthene		UG/L	<9.6	/U
Fluorene		UG/L	<9.6	/U
Hexachlorobenzene		UG/L	<9.6	/U
Hexachlorobutadiene		UG/L	<9.6	/U
Hexachlorocyclopentadiene		UG/L	<9.6	/U
Hexachloroethane		UG/L	<9.6	/U
Indeno(1,2,3-cd)pyrene		UG/L	<9.6	/U
Isophorone		UG/L	<9.6	/U
m,p-Cresol		UG/L	<9.6	/U
M-Nitroaniline		UG/L	<9.6	/U
N-Nitrosodiphenylamine		UG/L	<9.6	/U

Table D4.3
LEHR Environmental Restoration
Analytical Results For Rinsate Samples, LEHR MWSF

Semivolatile Organics by CLP

	Background Level	UNITS	MFWS0001	
N-Nitrosodipropylamine		UG/L	<9.6	/U
Naphthalene		UG/L	<9.6	/U
Nitrobenzene		UG/L	<9.6	/U
O-Cresol		UG/L	<9.6	/U
O-Nitroaniline		UG/L	<9.6	/U
P-Nitroaniline		UG/L	<9.6	/U
Pentachlorophenol		UG/L	<9.6	/U
Phenanthrene		UG/L	<9.6	/U
Phenol		UG/L	<9.6	/U
Pyrene		UG/L	<9.6	/U

Table D4.4
LEHR Environmental Restoration
Analytical Results For Rinsate Samples, LEHR MWSF

General Chemistry

	Background Level	UNITS	MFWS0001	
Formaldehyde		MG/L	<0.05	/U

SAMP_ID	LAB_CHEM	CONC	UNITS	DL_FL	ER_Q	ER_R1	CR_Q	CR_C	DET_LIMIT
MFSS0006	1,1,1-Trichloroethane		UG/KG	<			U		5.3
MFSS0006	1,1,2,2-Tetrachloroethane		UG/KG	<			U		5.3
MFSS0006	1,1,2-Trichloroethane		UG/KG	<			U		5.3
MFSS0006	1,1-Dichloroethane		UG/KG	<			U		5.3
MFSS0006	1,1-Dichloroethylene		UG/KG	<			U		5.3
MFSS0006	1,2-Dichloroethane		UG/KG	<			U		5.3
MFSS0006	1,2-Dichloroethylene		UG/KG	<			U		5.3
MFSS0006	1,2-Dichloropropane		UG/KG	<			U		5.3
MFSS0006	2-Butanone		UG/KG	<	R	c	U		10.5
MFSS0006	2-Hexanone		UG/KG	<			U		10.5
MFSS0006	4-Methyl-2-Pentanone		UG/KG	<			U		10.5
MFSS0006	Acetone		UG/KG	<	R	c	U		10.5
MFSS0006	Benzene		UG/KG	<			U		5.3
MFSS0006	Bromoform		UG/KG	<			U		5.3
MFSS0006	Carbon Disulfide		UG/KG	<			U		5.3
MFSS0006	Carbon Tetrachloride		UG/KG	<			U		5.3
MFSS0006	Chlorobenzene		UG/KG	<			U		5.3
MFSS0006	Chlorodibromomethane		UG/KG	<			U		5.3
MFSS0006	Chloroethane		UG/KG	<			U		10.5
MFSS0006	Chloroform		UG/KG	<			U		5.3
MFSS0006	cis-1,3-Dichloropropene		UG/KG	<			U		5.3
MFSS0006	Dichlorobromomethane		UG/KG	<			U		5.3
MFSS0006	EthylBenzene		UG/KG	<			U		5.3
MFSS0006	Methyl Bromide		UG/KG	<			U		10.5
MFSS0006	Methyl Chloride		UG/KG	<			U		10.5
MFSS0006	Methylene Chloride		UG/KG	<			U		5.3
MFSS0006	Styrene		UG/KG	<			U		5.3
MFSS0006	Tetrachloroethene		UG/KG	<			U		5.3
MFSS0006	Toluene		UG/KG	<			U		5.3
MFSS0006	trans-1,3-Dichloropropene		UG/KG	<			U		5.3
MFSS0006	Trichloroethene		UG/KG	<			U		5.3
MFSS0006	Vinyl Chloride		UG/KG	<			U		10.5
MFSS0006	Xylenes (Total)		UG/KG	<			U		5.3
MFSS0007	1,1,1-Trichloroethane		UG/KG	<			U		5.4
MFSS0007	1,1,2,2-Tetrachloroethane		UG/KG	<			U		5.4
MFSS0007	1,1,2-Trichloroethane		UG/KG	<			U		5.4
MFSS0007	1,1-Dichloroethane		UG/KG	<			U		5.4
MFSS0007	1,1-Dichloroethylene		UG/KG	<			U		5.4
MFSS0007	1,2-Dichloroethane		UG/KG	<			U		5.4
MFSS0007	1,2-Dichloroethylene		UG/KG	<			U		5.4
MFSS0007	1,2-Dichloropropane		UG/KG	<			U		5.4
MFSS0007	2-Butanone		UG/KG	<	R	c	U		10.9
MFSS0007	2-Hexanone		UG/KG	<			U		10.9
MFSS0007	4-Methyl-2-Pentanone		UG/KG	<			U		10.9
MFSS0007	Acetone		UG/KG	<	R	c	U		10.9
MFSS0007	Benzene		UG/KG	<			U		5.4
MFSS0007	Bromoform		UG/KG	<			U		5.4
MFSS0007	Carbon Disulfide		UG/KG	<			U		5.4
MFSS0007	Carbon Tetrachloride		UG/KG	<			U		5.4
MFSS0007	Chlorobenzene		UG/KG	<			U		5.4
MFSS0007	Chlorodibromomethane		UG/KG	<			U		5.4
MFSS0007	Chloroethane		UG/KG	<			U		10.9
MFSS0007	Chloroform	0.6	UG/KG		J	q	J		5.4

SAMP_ID	LAB_CHEM	CONC	UNITS	DL_FL	ER_Q	ER_R1	CR_Q	CR_C	DET_LIMIT
MFSS0007	cis-1,3-Dichloropropene		UG/KG	<			U		5.4
MFSS0007	Dichlorobromomethane		UG/KG	<			U		5.4
MFSS0007	EthylBenzene		UG/KG	<			U		5.4
MFSS0007	Methyl Bromide		UG/KG	<			U		10.9
MFSS0007	Methyl Chloride		UG/KG	<			U		10.9
MFSS0007	Methylene Chloride		UG/KG	<			U		5.4
MFSS0007	Styrene		UG/KG	<			U		5.4
MFSS0007	Tetrachloroethene		UG/KG	<			U		5.4
MFSS0007	Toluene		UG/KG	<			U		5.4
MFSS0007	trans-1,3-Dichloropropene		UG/KG	<			U		5.4
MFSS0007	Trichloroethene		UG/KG	<			U		5.4
MFSS0007	Vinyl Chloride		UG/KG	<			U		10.9
MFSS0007	Xylenes (Total)		UG/KG	<			U		5.4
MFSS0008	1,1,1-Trichloroethane		UG/KG	<			U		5.2
MFSS0008	1,1,2,2-Tetrachloroethane		UG/KG	<			U		5.2
MFSS0008	1,1,2-Trichloroethane		UG/KG	<			U		5.2
MFSS0008	1,1-Dichloroethane		UG/KG	<			U		5.2
MFSS0008	1,1-Dichloroethylene		UG/KG	<			U		5.2
MFSS0008	1,2-Dichloroethane		UG/KG	<			U		5.2
MFSS0008	1,2-Dichloroethylene		UG/KG	<			U		5.2
MFSS0008	1,2-Dichloropropane		UG/KG	<			U		5.2
MFSS0008	2-Butanone		UG/KG	<	R	c	U		10.3
MFSS0008	2-Hexanone		UG/KG	<			U		10.3
MFSS0008	4-Methyl-2-Pentanone		UG/KG	<			U		10.3
MFSS0008	Acetone		UG/KG	<	R	c	U		10.3
MFSS0008	Benzene		UG/KG	<			U		5.2
MFSS0008	Bromoform		UG/KG	<			U		5.2
MFSS0008	Carbon Disulfide		UG/KG	<			U		5.2
MFSS0008	Carbon Tetrachloride		UG/KG	<			U		5.2
MFSS0008	Chlorobenzene		UG/KG	<			U		5.2
MFSS0008	Chlorodibromomethane		UG/KG	<			U		5.2
MFSS0008	Chloroethane		UG/KG	<			U		10.3
MFSS0008	Chloroform		UG/KG	<			U		5.2
MFSS0008	cis-1,3-Dichloropropene		UG/KG	<			U		5.2
MFSS0008	Dichlorobromomethane		UG/KG	<			U		5.2
MFSS0008	EthylBenzene		UG/KG	<			U		5.2
MFSS0008	Methyl Bromide		UG/KG	<			U		10.3
MFSS0008	Methyl Chloride		UG/KG	<	UJ	c	U		10.3
MFSS0008	Methylene Chloride		UG/KG	<			U		5.2
MFSS0008	Styrene		UG/KG	<			U		5.2
MFSS0008	Tetrachloroethene		UG/KG	<			U		5.2
MFSS0008	Toluene		UG/KG	<			U		5.2
MFSS0008	trans-1,3-Dichloropropene		UG/KG	<			U		5.2
MFSS0008	Trichloroethene		UG/KG	<			U		5.2
MFSS0008	Vinyl Chloride		UG/KG	<			U		10.3
MFSS0008	Xylenes (Total)		UG/KG	<			U		5.2
MFSS0009	1,1,1-Trichloroethane		UG/KG	<			U		5.5
MFSS0009	1,1,2,2-Tetrachloroethane		UG/KG	<			U		5.5
MFSS0009	1,1,2-Trichloroethane		UG/KG	<			U		5.5
MFSS0009	1,1-Dichloroethane		UG/KG	<			U		5.5
MFSS0009	1,1-Dichloroethylene		UG/KG	<			U		5.5
MFSS0009	1,2-Dichloroethane		UG/KG	<			U		5.5
MFSS0009	1,2-Dichloroethylene		UG/KG	<			U		5.5

SAMP_ID	LAB_CHEM	CONC	UNITS	DL_FL	ER_Q	ER_R1	CR_Q	CR_C	DET_LIMIT
MFSS0009	1,2-Dichloropropane		UG/KG	<			U		5.5
MFSS0009	2-Butanone		UG/KG	<	R	c	U		11
MFSS0009	2-Hexanone		UG/KG	<			U		11
MFSS0009	4-Methyl-2-Pentanone		UG/KG	<			U		11
MFSS0009	Acetone		UG/KG	<	R	c	U		11
MFSS0009	Benzene		UG/KG	<			U		5.5
MFSS0009	Bromoform		UG/KG	<			U		5.5
MFSS0009	Carbon Disulfide		UG/KG	<			U		5.5
MFSS0009	Carbon Tetrachloride		UG/KG	<			U		5.5
MFSS0009	Chlorobenzene		UG/KG	<			U		5.5
MFSS0009	Chlorodibromomethane		UG/KG	<			U		5.5
MFSS0009	Chloroethane		UG/KG	<			U		11
MFSS0009	Chloroform		UG/KG	<			U		5.5
MFSS0009	cis-1,3-Dichloropropene		UG/KG	<			U		5.5
MFSS0009	Dichlorobromomethane		UG/KG	<			U		5.5
MFSS0009	EthylBenzene		UG/KG	<			U		5.5
MFSS0009	Methyl Bromide		UG/KG	<			U		11
MFSS0009	Methyl Chloride		UG/KG	<			U		11
MFSS0009	Methylene Chloride		UG/KG	<			U		5.5
MFSS0009	Styrene		UG/KG	<			U		5.5
MFSS0009	Tetrachloroethene		UG/KG	<			U		5.5
MFSS0009	Toluene		UG/KG	<			U		5.5
MFSS0009	trans-1,3-Dichloropropene		UG/KG	<			U		5.5
MFSS0009	Trichloroethene		UG/KG	<			U		5.5
MFSS0009	Vinyl Chloride		UG/KG	<			U		11
MFSS0009	Xylenes (Total)		UG/KG	<			U		5.5
MFWS0003	1,1,1-Trichloroethane		ug/L	<			U		5
MFWS0003	1,1,2,2-Tetrachloroethane		ug/L	<			U		5
MFWS0003	1,1,2-Trichloroethane		ug/L	<			U		5
MFWS0003	1,1-Dichloroethane		ug/L	<			U		5
MFWS0003	1,1-Dichloroethylene		ug/L	<			U		5
MFWS0003	1,2-Dichloroethane		ug/L	<			U		5
MFWS0003	1,2-Dichloroethylene		ug/L	<			U		5
MFWS0003	1,2-Dichloropropane		ug/L	<			U		5
MFWS0003	2-Butanone		ug/L	<	R	c	U		10
MFWS0003	2-Hexanone		ug/L	<			U		10
MFWS0003	4-Methyl-2-Pentanone		ug/L	<			U		10
MFWS0003	Acetone	1.2	ug/L		J	qc	J		10
MFWS0003	Benzene		ug/L	<			U		5
MFWS0003	Bromoform		ug/L	<			U		5
MFWS0003	Carbon Disulfide		ug/L	<			U		5
MFWS0003	Carbon Tetrachloride		ug/L	<			U		5
MFWS0003	Chlorobenzene		ug/L	<			U		5
MFWS0003	Chlorodibromomethane		ug/L	<			U		5
MFWS0003	Chloroethane		ug/L	<	UJ	c	U		10
MFWS0003	Chloroform		ug/L	<			U		5
MFWS0003	cis-1,3-Dichloropropene		ug/L	<			U		5
MFWS0003	Dichlorobromomethane		ug/L	<			U		5
MFWS0003	EthylBenzene		ug/L	<			U		5
MFWS0003	Methyl Bromide		ug/L	<	UJ	c	U		10
MFWS0003	Methyl Chloride		ug/L	<			U		10
MFWS0003	Methylene Chloride	4	ug/L		J	q	J		5
MFWS0003	Styrene		ug/L	<			U		5

SAMP_ID	LAB_CHEM	CONC	UNITS	DL_FL	ER_Q	ER_R1	CR_Q	CR_C	DET_LIMIT
MFWS0003	Tetrachloroethene		ug/L	<			U		5
MFWS0003	Toluene		ug/L	<			U		5
MFWS0003	trans-1,3-Dichloropropene		ug/L	<			U		5
MFWS0003	Trichloroethene		ug/L	<			U		5
MFWS0003	Vinyl Chloride		ug/L	<			U		10
MFWS0003	Xylenes (Total)		ug/L	<			U		5

LEHR Environmental Restoration
Analytical Results For MWSF

Table Specifiers:

The following descriptions provide a brief explanation of codes used in association with the sample ids.

SS= Soil sample
WO= Wood sample
WI= Wipe sample
WS= Water sample

= Shading indicates that the measured concentration is above background

Data Validation Qualifier Definitions:

The following definitions provide brief explanations of the data validation qualifiers assigned to results in the data review process.

U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
N = The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".
NJ = The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.
UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
R = The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

Data Validation Reason Code Definitions:

The following descriptions provide brief explanation of the cause for qualification of the results determined in the data review process. These reason codes are used in combination with data qualifier, i.e. "Uz" indicated the analyte is non-detect due to method blank contamination.

c = Calibration failure; poor or unstable response.
d = Matrix duplicate imprecision or matrix spike/matrix spike duplicate imprecision.
f = Field replicate or duplicate imprecision.
h = Holding time violation.
i = Internal standard failure.
l = Laboratory control sample (LCS) recovery failure.
m= Matrix spike/matrix spike duplicate (MS/MSD) recovery failure.
q = Bellow CRQL/CRDL or above calibration range.
s = Surrogate spike recovery failure.
z = Blank contamination.
/ = Validation Qualifier / Lab Qualifier.
B = Analyte was detected in the associated method blank.
E = Concentration exceeds calibration range.
P = Concentrations between the two GC columns are greater than 25% difference.
N = Spiked sample recovery not within control limits.
* = Duplicate analysis not within control limit.