CH2MHILL

CH2MHILL
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MH-003-03
March 6, 2003

Mr. Richard B. Provencher, Director
Miamisburg Closure Project
U.S. Department of Energy
P.O. Box 66
Miamisburg, OH 45343-0066

ATTENTION: Robert S. Rothman

SUBJECT: Contract No. DE-AC-03OH20152
ACTION MEMORANDUM, BUILDINGS R, SW, 58 AND 68 SLAB, REV. 1, PUBLIC REVIEW DRAFT
ACTION MEMORANDUM, T BUILDING, PUBLIC REVIEW DRAFT
BUILDING DATA PACKAGE, T BUILDING, PUBLIC REVIEW DRAFT

REFERENCE: Statement of Work Requirement C.7.1e - Regulator Reports

Dear Mr. Provencher:

Rob Rothman from your office has approved the release of the following documents for public review:

ACTION MEMORANDUM, BLDGS.R, SW, 58 & 68 SLAB, REV.1, PUBLIC REVIEW DRAFT
- Response to Regulator Comments on Rev. 1 Draft

ACTION MEMORANDUM, T BUILDING, REV. 0, PUBLIC REVIEW DRAFT
- Response to Regulator Comments on Draft

BUILDING DATA PACKAGE, T BUILDING, PUBLIC REVIEW DRAFT
- Response to Regulator Comments on Draft

USEPA had no comments on the documents. The public review period is March 5 through April 5, 2003. Any public comments will be addressed in the final document.

If you or members of your staff have any questions regarding the documents, or if additional support is needed, please contact Mary Sizemore at extension 3901.

Sincerely,

Tim Heath
Project Manager
Main Hill Project

TRH/nr
Enclosures

cc: Dave Seely, USEPA, (1) w/attach.
Brian Nickel, OEPA, (4) w/attach.
Ruth Vandegrift, ODH, (1) w/attach.
Sam Cheng, DOE/MCP, (1) w/attach.
Randy Tormey, DOE/OH, (1) w/attach.
Terry Tracy, DOE/HQ, (1) w/attach.
Dann Bird, MMCIC, (3) w/attach.
D.J. Bonfiglio, MESH, (1) w/attach.
Dave Rakel, CH2MHill of Ohio, (1) w/attach.
Mary Sizemore, CH2MHill of Ohio, (1)w/attach.
Tim Heath, CH2MHill of Ohio, (2) w/attach.
Public Reading Room, (4) w/attach.
DCC

Response to Comments

T Building, Building Data Package, Draft, November 2002

USEPA COMMENTS

Comment 1. NO COMMENTS.

Response 1. No Response required

OEPA COMMENTS

Comment 1. It was noted within the Environmental Appraisal of the Mound Plant (Section 9.30 Building T, page 9.30-4) that a lathe was used in room 323. Oil apparently associated with the lathe. What was the lathe used to machine and did the oil contain PCBs? Although minor within the scope of the activities carried out in the building, the oil should be reported in Table 1 or Section 4.2.2. Any history regarding the lathe, especially if it was used to machine radioactive metal, should be included also.

Response 1. The lathe located in T-323 was used to machine aluminum, plastic, and possibly phenolic parts. Typically machining oil does not contain PCBs, however oil will be drained and tested for PCBs prior to disposal.

Comment 2. Section 2.2.2, First Paragraph Section. Additional radioactive elements associated with T Building are polonium and cobalt-60, which are not included in this paragraph. Also, please provide information on how americium, cesium, and strontium became associated with T Building. What information can also be included from previous decontamination and decommissioning efforts in the building? The discussion on radioactive elements associated with T Building should be further developed and historically accurate.

Response 2. Cobalt and polonium were added to the list in the first paragraph section 2.4, Radiological Characterization Summary for T Building. Additional information on radionuclides and decontamination were provided under Section 2.2, Past Uses of T Building. Revised document attached.

Other document changes:

References to BWXTO have been changed to "the site contractor."

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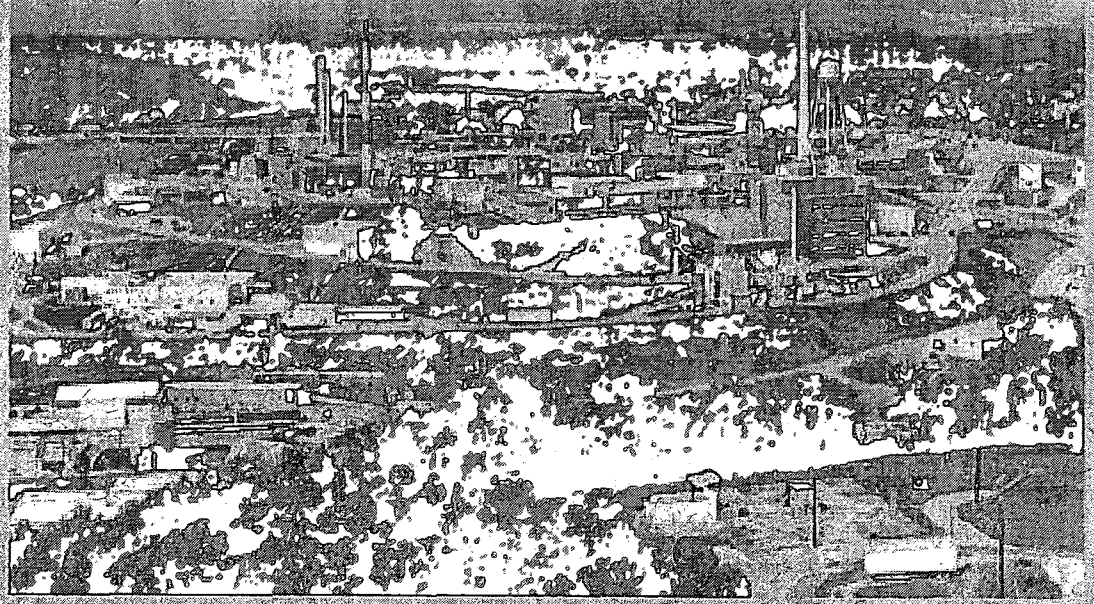
MOUND

Environmental Restoration Program

OhioEPA

MIAMISBURG CLOSURE PROJECT
Building Data Package
T Building

Public Review Draft
February 2003



BDP T Building

REV	DESCRIPTION	DATE
WORKING DRAFT (to DOE)		**N/A**
DRAFT (to Core Team)	Submitted for simultaneous DOE, OEPA, and US EPA review.	**November 2002**
DRAFT PROPOSED FINAL (incorporates Core Team comments)		
PUBLIC REVIEW DRAFT		
FINAL		

BUILDING DATA PACKAGE (BDP)

T Building

(Transition)

DOE MIAMISBURG CLOSURE PROJECT

MIAMISBURG, OHIO 45343

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1.0 GENERAL OVERVIEW

1.1 Introduction

The purpose of this Building Data Package (BDP) is to prepare for the transfer of Technical (T) Building to the Miamisburg Mound Community Improvement Corporation (MMCIC) and to identify, if possible, any recognized environmental conditions (defined below) that may affect the subject property and structure.

Recognized Environmental Condition: The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a likely release, a past release, or a material threat of a release of any hazardous substances or petroleum into structures, or into the air, ground, groundwater, or surface water near the building.

1.2 Scope

This document has been prepared in accordance with the agreements and requirements as specified in the *Work Plan for Environmental Restoration of the DOE Mound Site, The Mound 2000 Approach*. This document is a BDP for T Building located at the Department of Energy (DOE) Miamisburg Closure Project (MCP) in Miamisburg, Ohio. The investigation performed to support this BDP models procedures found in *ASTM Standard Practice for Environmental Site Assessments; Phase I Environmental Site Assessment Process* (Designation E 1527-97).

The scope of the investigation included T Building and a 15-foot wide perimeter border around the building. The investigation of T Building included the following:

A) A building and perimeter inspection.
B) An examination of historical aerial photographs and maps.
C) A review of federal and state regulatory agency records.
D) Personnel interviews.
E) A review of site records for:

   1) History of spills, releases, and chemical inventories
   2) Past sampling data

      - Radiological survey
      - Soil sampling
      - Lead-based paint
      - Asbestos
      - Radon

In addition to the building investigation conducted by CH2MHill personnel, documents were reviewed. Information used to compile BDPs includes the following:

- Characterization of Mound's Hazardous, Radioactive, and Mixed Wastes, August 1990
- OU-9 Site Scoping Report, Volumes 1-12
- Mound Facility Physical Characterization, December 1992
- Active Underground Storage Tank Plan, November 1994
- OU-9 Hydrological Investigation, Bedrock Report, January 1994
- OU-9 Hydrological Investigation, Buried Valley Aquifer Report, March 1994
- Environmental Appraisal Report of the Mound Plant, March 1996
- Title Search
- Lease Information
- EDR Report - Radius Map
- Building Prints
- Potential Release Site (PRS) information
- MD-222153, Mound Site Radionuclides By Location, July 1995 Contaminant Surveys
- MLM-3791, Mound Facility Physical Characterization, December 1993

2.0 BUILDING SPECIFIC OVERVIEW

T Building is a heavily reinforced subterranean concrete structure located almost entirely under the Development and Standards (DS) Building (See Figure 1). The south-end section of the building tunnel area is exposed aboveground and abuts the multi-story Central Operations Support (COS) Building. T Building and COS Building are separated by an approximate 6-inch thick expansion joint.

Construction was completed in 1948 on T Building and associated structures (described below). Each of its two floors is compartmentalized into three general areas by two 30-inch thick reinforced concrete firewalls. T Building contains more than 200 rooms and 20 corridors.

Associated building structures include two exhaust airshafts, each with a two-hundred-foot tall brick and mortar exhaust stack. The building has three towers along the north wall, one at each end and one at the center. The end towers contain stairways, passenger elevators, airshafts for intake ventilation air, and pedestrian entrances at grade level. The middle tower was used for providing intake ventilation air. The air required for the ventilation of the main body of the building enters at the penthouse level of each individual tower. The eastern-most tower is designated the East Tower (or Tower 1) and the western-most tower is designated the West Tower (or Tower 1A). The East Tower also provides space for various utility lines coming into the building. The middle tower was used for providing intake ventilation air. There are two head houses near the ends of the building that contain

airshafts that are part of the intake air ventilation system. Large doors permit vehicles and personnel to enter the building at either end of the second floor. The vehicular tunnel extends the length of the south side of the building.

The building was constructed by excavating the side of a hill, assembling the basic reinforced concrete building shell, and then backfilling the excavated area to essentially the original slope and grade. The interior dimensions of the basic building shell are 345 feet long by 150 feet wide. The roof is three feet thick with DS Building on top of most of the building footprint.

The building heating and cooling is achieved through single pass ventilation units located on the first floor and both tower penthouses. These units are supplied with steam and chilled water / glycol from the site powerhouse centralized system. Control of both the supply and exhaust ventilation units is computerized with daily monitoring and alarm capability. The building has potable and non-potable water and sanitary services provided by the MCP facility. Electric service is 12,000 volts.

Floor plans are not available for public release (Appendix D).

2.1 Current Uses of T Building

T Building contains laboratories used for radioactive and non-radioactive work, offices, and service rooms. The Tritium Emissions Recovery Facility (TERF) processes tritiated gases to recover waste tritium for disposal. TERF will continue to operate until approximately August 2003. Current actions pertinent to T Building include pre-characterization, work planning for decontamination and decommissioning, safe shutdown, and post-characterization. Work planning consists of preliminary work that is required to execute building disposition activities in accordance with Environmental Safety & Health requirements, DOE Orders, and best management practices. Safe shutdown includes building surveillance (weekly and monthly contamination surveys), and the accumulation, decontamination, characterization, and disposition of equipment and waste. Several of the rooms contain radiological control areas. The building is intended to be vacated in September 2006, a which time it will be prepared for transfer to MMCIC.

2.2 Past Uses of T Building

T Building was originally built to process radioactive polonium and has seen minor amounts of other radionuclides. From 1949 to 1973, polonium-210 programs included a processing and separation program, fuels research and development program, neutron source program, and a variety of other research, development and production programs with polonium. T Building underwent a significant decontamination in the early 1970s and a substantial modification during the early 1980s in order to accommodate tritium processing operations. A variety of other activities have been done in T Building such as nondestructive testing, environmental testing, gamma and mass spectroscopy, calorimetry, neutron activation analysis, and safeguards research and development (R&D). Building operations have included offices and administrative areas, laboratories, and material storage. Materials stored have included chemical product, office supplies, and newly

purchased waste storage containers. The building has a vault that was used to store secured nuclear materials.

2.3 Summary of Environmental Concerns and Findings - T Building

A summary of environmental concerns and findings associated with T Building is provided in Table 1.

Table 1: Summary of Environmental Concerns and Findings

Description	Comment	Resolution
Lead-Based Paint	Due to the year of construction (1948) and operations conducted in the building, it is likely that lead-based paint exists. Most of the paint coatings were observed to be intact. See Appendix J.	A lead-based paint inspection will be performed prior to transfer. If lead-based paint is found to be present in the building, it will not present a concern unless it becomes damaged.
Chemicals	A list of chemicals recently in the building is provided in Appendix K.	All chemicals will be removed from the building prior to transfer.
Fluorescent Lamps and Polychlorinated Biphenyls (PCBs)	PCB-containing transformers were removed from the building in 1995.	No further action required.
Air Emissions	Air emissions from T Building are exhausted to either the T-East or T-West stacks.	Emissions from the stacks are monitored for radionuclides in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAPs). Federal Facility Compliance Agreement Act (FFCA) Compliance Work Plan (of 20 February 1995).
Asbestos	Due to its year of construction (1948) it is likely that the building contains asbestos-containing material. See Appendix I.	An asbestos inspection will be performed prior to building transfer. If asbestos-containing material requires removal, it will be removed prior to transfer.
Drainage Sumps	A number of T Building sumps have been identified as Potential Release Sites (PRSs). Table 3 provides a list of sumps that are PRSs and their locations and uses.	Process knowledge and radiological data indicates the sumps are contaminated above applicable radiological release levels. The sump liquid will be analyzed for RCRA materials and radiological levels. The sump liquids and sumps identified in Table 3 will be removed from the building prior to transfer.
Lead	Due to operations that were conducted in the building, it is known that the building contains lead shielding. Appendix J.	Lead present in the building could present a concern if damaged. Lead will be removed from the building prior to transfer.

Table 1: Summary of Environmental Concerns and Findings

Description	Comment	Resolution
Mercury	Process knowledge and the chemical inventory indicates that there are small quantities of mercury and mercury-contaminated items in the building.	Mercury present in the building presents a concern. Mercury and mercury-contaminated items will be removed from the building prior to transfer.
Radiological	Exceeds acceptable limits.	Radiological contamination will be removed such that the building meets release criteria prior to transfer.
Septic System	N/A	N/A
Wastewater	Handled by site wastewater facility.	N/A
Stains & Corrosion/HVAC	N/A	N/A
Storage Tanks	Twenty-five storage tanks are in the building. They have been identified as PRSs.	The PRS tanks will be analyzed and remediated or removed (if necessary) prior to building transfer.
Solid Waste Disposal	N/A	N/A
Migratory Hazards	N/A	N/A
Radon	Within acceptable limits (Appendix H).	N/A
Energetic Material/HVAC	N/A	N/A

N/A: not applicable

2.4 Radiological Characterization Summary for T Building

A review of operational history and radiological survey information was performed on T Building. Operational history indicates that the building was constructed as a polonium processing facility and later converted to a tritium processing facility. Radioactive elements associated with T Building include uranium, plutonium, americium, radium, radon, bismuth, cesium, strontium, and tritium (H-3).

Surveys conducted for radiation protection are routinely conducted throughout the building. A review of all of the radiological survey data supports the conclusion that T Building does not meet the surface release criteria established by DOE Order 5400.5 (See Table 2).

Since the activity detected resulted from site operations, a removal action is recommended. Supporting documentation for the information summarized in the following table is contained in Appendix G.

Table 2: Radiological Summary

TYPE	RSDS (Radiological Survey Data Sheet)	LOCATION	SURVEY RESULTS (dpm/100 cm^2)	SURFACE CONTAMINATION GUIDELINES (dpm/100 cm^2) (Note 1)
Highest Alpha Smearable Activity	02-T-1747	T244/246	107	20
Highest Alpha Fixed Activity	02-T-1747	T244/246	7,000	100
Highest Beta Smearable Activity	02-T-1747	T244/246	78.6	1,000
Highest Beta Fixed Activity	02-T-1747	T244/246	22,000	5,000
Highest Tritium Smearable Activity	02-T-1700	T59	9,591,090	10,000

Note 1: Guideline values per DOE Order 5400.5, Radiation Protection of the Public and the Environment.

In addition to the radiological surveys of the building surface samples, process knowledge indicates that several drains, sumps, and inaccessible areas are also expected to be contaminated. Characterization to confirm contamination has not yet been performed. These areas will be characterized as they become accessible. A characterization plan will be developed to characterize the entire building.

3.0 SITE DESCRIPTION

3.1 Site/Vicinity Location and Characteristics

T Building is located at the DOE MCP site, formerly known as Mound Plant. The site is situated in the City of Miamisburg, Miami Township, Montgomery County, State of Ohio as shown in Appendix B.

The MCP site at one time was situated on approximately 300 acres of land and contained approximately 130 buildings with a total of approximately 1.4 million square feet of floor space (the number of buildings is constantly diminishing as buildings are decommissioned and either sold or demolished). The original 182-acre site, purchased by the Manhattan Engineering District in 1946, consisted of two hills and an intervening valley that runs approximately east and west. The 124-acre tract acquired in 1981 was an undeveloped mixture of fields and woods that undulates and slopes downward to the west, away from the main site. This area was acquired to serve as a buffer and has been used as a staging area and parking area for contractors working onsite.

To the west lies a railroad line and the north south trending Miami-Erie Canal. The northern boundaries of the site abut the residential area of Miamisburg, Ohio. Mound Road marks the northern half of the eastern perimeter of the facility then veers east, away from the southern half of the eastern boundary. A public golf course (belonging to the City of

Miamisburg), the Miamisburg Mound Memorial Park, old agricultural fields, residential lots, and vacant wooded lots border against the facility along Mound Road. Benner Road formed the southern property line of the MCP site (at the 300-acre stage), with agricultural fields and farms occupying the lands beyond.

3.2 Description of Structures, Roads, Other Improvements in Proximity to T Building

The location of T Building is shown in Figures 1 and 3. The building is located on the south side of the Main Hill area of the plant and was constructed directly below the DS Building. To the north and east are roadways, to the south is the COS Building (constructed against the exterior wall of the T East Tunnel) and a grassy hillside, and to the west is a grassy area.

3.3 Current and Past Uses of Buildings in Proximity to T Building

The closest building to T Building is DS Building, which was constructed directly on top of it. The DS Building was used for metrology, and explosive production and development.

To the west of T Building is Building 48. Building 48 was originally built to house offices, a machine shop, and an automation development lab. The automation development area was converted to analytical labs for testing, development, and surveillance of energetic materials. Building 48 now contains office areas and analytical labs.

Buildings E (Environmental) and M (machine shop) were located just north of T Building, but were demolished in 1999 and 2000, respectively. E/E Building Annex contained analytical laboratories used for environmental analysis. Building M was the former machine shop and housed electroplating operations. The areas where those buildings had been located were resurfaced or graded to provide parking and storage areas.

R (Research) Building is also to the north of T Building. R Building was divided into two areas: the "cold" side and the "hot" side. The "hot" side is associated with radiological areas (tritium recovery and various analytical support tasks). The "cold" side of the building contained research and development laboratories, analytical laboratories, a respirator fitting facility, offices, and the library.

COS Building is located to the south of T Building. COS Building was used for production support for weapons components including explosives laboratories, a standards lab, and a robotics lab. It was transferred to MMCIC in 1995.

The facilities in the vicinity of T Building are believed to have had minimal or no environmental impact on T Building.

4.0 RECORDS REVIEW

4.1 General/Historical CERCLA Information

In compliance with permit requirements under the Resource Conservation and Recovery Act (), the Clean Water Act (CWA), Safe Drinking Water Act (SDWA), and Clean Air Act (CAA), the MCP site has applied for or has received permits for its surface water discharges, air emissions, and hazardous waste program. The site is currently operating a hazardous waste storage facility under a RCRA Part B Permit dated October 18, 1996 and maintains a National Pollutant Discharge Elimination System (NPDES) surface water discharge permit with Facility I.D. number OH 0009857. Operations that produce particulate or vaporous emissions are either permitted or registered with the Regional Air Pollution Control Agency (RAPCA) and the Ohio Environmental Protection Agency (OEPA). The site submits annual Emergency and Hazardous Chemical Inventory forms to OEPA, pursuant to the Superfund Amendment and Reauthorization Act (SARA) Title III, the Emergency Planning and Community Right-to-Know Act. The March 2002 version of this report indicated a number of chemicals (meeting the reporting criteria) are/were stored in T Building; see Appendix K.

The Mound Plant was identified as a contaminated site on the National Priorities List under CERCLA (Superfund) in 1989. The Mound site was originally listed because of volatile organic compound (VOC) contamination in the western end of the lower valley area. The cleanup of the site was originally to be accomplished under the CERCLA-mandated procedures for regulating Superfund sites using the Operable Unit (OU) system to define and characterize cleanup areas. As the cleanup effort went forward, it became apparent that the site did not fit the profile for a cleanup strategy based on the operable units. The DOE, the United States Environmental Protection Agency (USEPA), and OEPA designed a new decision making process for the cleanup of the site. The new process is known formally as a "removal site evaluation process" and informally as the "Mound 2000 Process." The Mound 2000 Process system divided the site into geographical parcels containing over 400 PRSs with approximately equal numbers of PRSs concerned with potentially contaminated soil and with potential contamination in or associated primarily with building operations. A PRS is an area where historic or current process knowledge indicates that an area may have had releases of radioactive and/or hazardous materials. For a more detailed description, refer to the *Work Plan for Environmental Restoration of the DOE Mound Site, the Mound 2000 Approach.*

4.2 Specific Record Sources for T Building

4.2.1 Occurrence Reports

A search of the occurrence reporting system revealed 78 reports since 1991 when the reporting system was initiated. Fifteen of these were classified as "unusual" and the remainder as "off-normal." A summary of the reports and one full report is provided in Appendix M.

4.2.2 Spills and Releases

No spills or releases exceeding reportable levels have occurred in T Building. Releases below reportable levels include:

- Release to the environment of less than 0.5 Ci of tritium. This is substantially below the reporting limit of 100 Ci per day (27 September 1994).
- Release to the environment of 0.04 Ci of tritium. This is substantially below the reporting limit of 100 Ci per day (14 February 1994).

4.2.3 Associated PRS Overview

As a result of the investigations and documentation accomplished to comply with the CERCLA cleanup process via the Federal Facilities Agreement (FFA)/DOE Environmental Restoration (ER) Program, DOE and BWXTO have tabulated all the PRSs identified under the various regulatory programs in effect at the site. Of these 440 PRSs, 27 are associated with T Building (see Table 3) and 43 are in proximity to T Building (see Table 4). Additional information is included in Appendix N.

Table 3: PRSs Associated with T Building

PRS	CERCLA or Bldg Related	Binning Status	Description
213	Building	unbinned	Solidification unit
214	Building	unbinned	Solid radioactive waste compactor
215	Building	unbinned	Cooling water sump (Tank 124) Room T-1
216	Building	unbinned	Sanitary waste sump (Tank 125) Corridor 2
217	Building	unbinned	Sanitary waste sump (Tank 126) Corridor 2
218	Building	unbinned	Sanitary waste sump (Tank 127) Corridor 2
219	Building	unbinned	Cooling water sump (Tank 128) Stair 3
220	Building	unbinned	Steam condensate sump (Tank 129) T-78
221	Building	unbinned	Sanitary waste sump (Tank 130)
222	Building	unbinned	Sanitary waste sump (Tank 131)
223	Building	unbinned	Cooling system condensate sump (Tank 132)
224	Building	unbinned	Sanitary waste sump (Tank 133)
225	Building	unbinned	Beta waste water sump (Tank 227) T-23
226	Building	unbinned	Floor drain sump (Tank 228) T-3
227	Building	unbinned	Alpha waste water sump (Tank 229)
228	Building	unbinned	Alpha waste water sump (Tank 230)
229	Building	unbinned	Alpha waste water sump (Tank 231)
230	Building	unbinned	Alpha waste water sump (Tank 232)

PRS	CERCLA or Bldg Related	Binning Status	Description
231	Building	unbinned	Alpha waste water sump (Tank 233)
232	Building	unbinned	Alpha waste water sump (Tank 234)
233	Building	unbinned	Alpha waste water sump (Tank 235)
339	Building	unbinned	Waste water sump (Tank 250)
340	Building	unbinned	Waste water sump (Tank 251)
341	Building	unbinned	Condensate sump (Tank 269) T-90
342	Building	unbinned	Hot side fire water tank (Tank 271) T-1
343	Building	unbinned	Fire water sump (Tank 272)
344	Building	unbinned	Fire water sump (Tank 273)

Table 4: PRSs in Proximity to T Building

PRS	CERCLA or Bldg Related	Binning Status	Description
103	CERCLA	No Further Assessment (NFA)	E Building soils
105	CERCLA	NFA	E Building Solvent Storage Shed
111	CERCLA	NFA	Monitor Well 0034
120	Building	NFA	Room M 108 Metal Plating Rinse Water Tank (Tank 119)
121	Building	NFA	Vapor Degreasers
123	CERCLA	Removal Action (RA)	Area 5, Radioactive Waste Line Break
128	Building	NFA	DS Building Solvent Storage Shed
144	Building	RA	R Building Sanitary Waste Collection Tank (Tank 120)
146	Building	RA	R Building Rooms 121, 144, 146, and 148 entombed drains
147	CERCLA	NFA	HH Building Soils
429	CERCLA	RA	Hot Waste Line - Segment 9
430	CERCLA	RA	Hot Waste Line - Segment 9a
431	CERCLA	RA	Hot Waste Line - Segment 10
432	CERCLA	RA	Hot Waste Line - Segment 11
435	CERCLA	RA	Hot Waste Line - Segment 13b
436	CERCLA	RA	Hot Waste Line - Segment 14

4.2.4 Sampling Data

4.2.4.1 Radiological Surveys

Radiological survey data of T Building report results above screening criteria (see Section 2.4). Supporting documentation is provided in Appendix G.

4.2.4.2 Soil Sampling Data

Appendix L contains a graphic and table presenting results of all soil sampling data within a 15-foot perimeter of T Building. Results that exceed screening levels (10^{-6} Risk-Based Guideline Values (RBGV) plus background or Hazard Index=1 or Core Team approved) are listed in Table 5. All other results are below screening levels.

Table 5: Maximum Results Exceeding Screening Levels

Analyte	Maximum Result	Background	RBGV (10^{-6})	Screening Level
Magnesium	40,500 mg/kg	40,000 mg/kg	NC	40,000 mg/kg
Potassium	34,529 mg/kg	1,900 mg/kg	NC	1,900 mg/kg
Thorium-232+D	2.0 pCi/g	1.4 pCi/g	0.07 pCi/g	1.47 pCi/g

RBGV: most stringent of construction and office worker scenarios per Risk-Based Guideline Values, March 1997, Final, as performed using April 2001 HEAST slope factors.
NC: not calculated

4.2.4.3 Chemical History

T Building includes offices and administrative areas, laboratories, and material storage areas. Materials stored include chemical product, office supplies, low-level radioactive and transuranic waste, and newly purchased waste storage containers. A list of chemicals present in the building between 1994 and 2001 is provided in Appendix K.

4.2.4.4 Lead

No previous lead surveys or sampling data could be found for T Building.

Lead bricks and lead shielding have been removed in various rooms throughout T Building. Lead paint has been identified on various machines and equipment (i.e., gloveboxes and x-ray equipment). In addition, lead has been identified in some building structures (i.e., walls, drain pipes). There are still some lead bricks and shielding in the building. Lead hazards will be removed from the building for appropriate disposal prior to building transfer (Appendix J).

4.2.4.5 Asbestos

Previous sampling data indicated that the building does contain asbestos-containing material (Appendix I). Extensive asbestos abatement was performed in 1990 (MD-10391,

Asbestos Program Manual). However, suspect asbestos-containing material is still present in the building.

A complete asbestos survey of T Building was recently conducted by Helix Environmental. BWXT of Ohio is currently awaiting the asbestos survey report, which will identify any asbestos-containing material and its location in the building. The suspected asbestos-containing materials include thermal system insulation (pipe, tank, and vessel), floor tile, counter tops, and wall penetration packing. This information will be used to develop a scope of work for a Licensed Asbestos Abatement Contractor. The report will also specify which materials have to be removed, and asbestos abatement will be performed prior to building transfer.

4.2.4.6 Radon

The results of the 1989-90 Mound Indoor Radon study indicated an average radon concentration of 0.9 picoCuries/liter (pCi/L) in T Building (Appendix H). The USEPA recommended standard for a maximum radon level is 4.0 pCi/L.

4.3 Review of Building Prints

Building prints were reviewed and no significant items were identified. Floor plans are not available for public release.

4.4 Aerial Photographs

Three aerial photographs are presented in Appendix E: 1947 (during construction), 1949 (post construction), and 1996 (most recent aerial photo). These photographs were reviewed and no significant items were identified.

4.5 Interviews

The current Building Manager, D. LeVan and Facility Manager, J. Allison, were interviewed. They confirmed that T Building needs additional decontamination to meet applicable release criteria prior to building transfer to MMCIC.

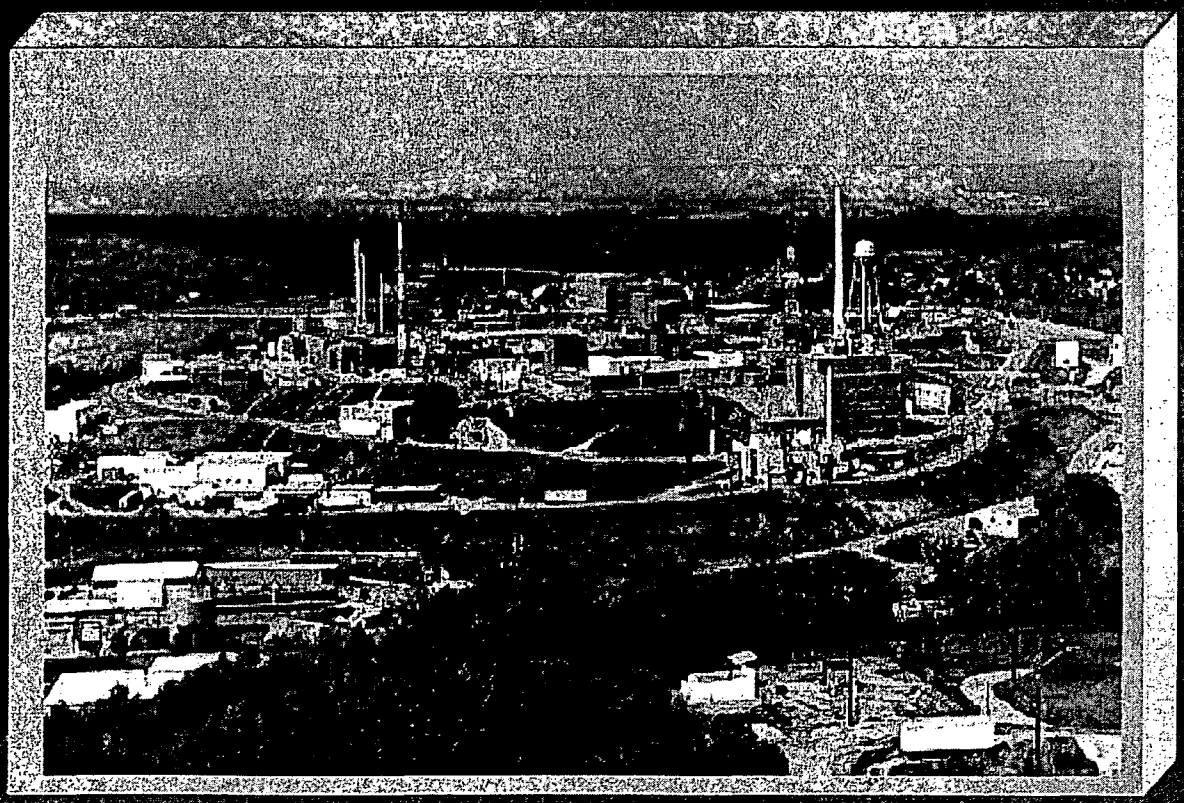
MOUND

Environmental Restoration Program

OhioEPA

MIAMISBURG CLOSURE PROJECT
Building Data Package
T Building

Public Review Draft
February 2003



BDP T Building

REV	DESCRIPTION	DATE
WORKING DRAFT (to DOE)		**N/A**
DRAFT (to Core Team)	Submitted for simultaneous DOE, OEPA, and US EPA review.	**November 2002**
DRAFT PROPOSED FINAL (incorporates Core Team comments)		
PUBLIC REVIEW DRAFT		
FINAL		

BUILDING DATA PACKAGE (BDP)

T Building

(Transition)

DOE MIAMISBURG CLOSURE PROJECT

MIAMISBURG, OHIO 45343

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1.0 GENERAL OVERVIEW

1.1 Introduction

The purpose of this Building Data Package (BDP) is to prepare for the transfer of Technical (T) Building to the Miamisburg Mound Community Improvement Corporation (MMCIC) and to identify, if possible, any recognized environmental conditions (defined below) that may affect the subject property and structure.

Recognized Environmental Condition: The presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a likely release, a past release, or a material threat of a release of any hazardous substances or petroleum into structures, or into the air, ground, groundwater, or surface water near the building.

1.2 Scope

This document has been prepared in accordance with the agreements and requirements as specified in the *Work Plan for Environmental Restoration of the DOE Mound Site, The Mound 2000 Approach*. This document is a BDP for T Building located at the Department of Energy (DOE) Miamisburg Closure Project (MCP) in Miamisburg, Ohio. The investigation performed to support this BDP models procedures found in *ASTM Standard Practice for Environmental Site Assessments; Phase I Environmental Site Assessment Process* (Designation E 1527-97).

The scope of the investigation included T Building and a 15-foot wide perimeter border around the building. The investigation of T Building included the following:

A) A building and perimeter inspection.
B) An examination of historical aerial photographs and maps.
C) A review of federal and state regulatory agency records.
D) Personnel interviews.
E) A review of site records for:

   1) History of spills, releases, and chemical inventories
   2) Past sampling data

      - Radiological survey
      - Soil sampling
      - Lead-based paint
      - Asbestos
      - Radon

In addition to the building investigation conducted by CH2MHill personnel, documents were reviewed. Information used to compile BDPs includes the following:

- Characterization of Mound's Hazardous, Radioactive, and Mixed Wastes, August 1990
- OU-9 Site Scoping Report, Volumes 1-12
- Mound Facility Physical Characterization, December 1992
- Active Underground Storage Tank Plan, November 1994
- OU-9 Hydrological Investigation, Bedrock Report, January 1994
- OU-9 Hydrological Investigation, Buried Valley Aquifer Report, March 1994
- Environmental Appraisal Report of the Mound Plant, March 1996
- Title Search
- Lease Information
- EDR Report - Radius Map
- Building Prints
- Potential Release Site (PRS) information
- MD-222153, Mound Site Radionuclides By Location, July 1995 Contaminant Surveys
- MLM-3791, Mound Facility Physical Characterization, December 1993

2.0 BUILDING SPECIFIC OVERVIEW

T Building is a heavily reinforced subterranean concrete structure located almost entirely under the Development and Standards (DS) Building (See Figure 1). The south-end section of the building tunnel area is exposed aboveground and abuts the multi-story Central Operations Support (COS) Building. T Building and COS Building are separated by an approximate 6-inch thick expansion joint.

Construction was completed in 1948 on T Building and associated structures (described below). Each of its two floors is compartmentalized into three general areas by two 30-inch thick reinforced concrete firewalls. T Building contains more than 200 rooms and 20 corridors.

Associated building structures include two exhaust airshafts, each with a two-hundred-foot tall brick and mortar exhaust stack. The building has three towers along the north wall, one at each end and one at the center. The end towers contain stairways, passenger elevators, airshafts for intake ventilation air, and pedestrian entrances at grade level. The middle tower was used for providing intake ventilation air. The air required for the ventilation of the main body of the building enters at the penthouse level of each individual tower. The eastern-most tower is designated the East Tower (or Tower 1) and the western-most tower is designated the West Tower (or Tower 1A). The East Tower also provides space for various utility lines coming into the building. The middle tower was used for providing intake ventilation air. There are two head houses near the ends of the building that contain

airshafts that are part of the intake air ventilation system. Large doors permit vehicles and personnel to enter the building at either end of the second floor. The vehicular tunnel extends the length of the south side of the building.

The building was constructed by excavating the side of a hill, assembling the basic reinforced concrete building shell, and then backfilling the excavated area to essentially the original slope and grade. The interior dimensions of the basic building shell are 345 feet long by 150 feet wide. The roof is three feet thick with DS Building on top of most of the building footprint.

The building heating and cooling is achieved through single pass ventilation units located on the first floor and both tower penthouses. These units are supplied with steam and chilled water / glycol from the site powerhouse centralized system. Control of both the supply and exhaust ventilation units is computerized with daily monitoring and alarm capability. The building has potable and non-potable water and sanitary services provided by the MCP facility. Electric service is 12,000 volts.

Floor plans are not available for public release (Appendix D).

2.1 Current Uses of T Building

T Building contains laboratories used for radioactive and non-radioactive work, offices, and service rooms. The Tritium Emissions Recovery Facility (TERF) processes tritiated gases to recover waste tritium for disposal. TERF will continue to operate until approximately August 2003. Current actions pertinent to T Building include pre-characterization, work planning for decontamination and decommissioning, safe shutdown, and post-characterization. Work planning consists of preliminary work that is required to execute building disposition activities in accordance with Environmental Safety & Health requirements, DOE Orders, and best management practices. Safe shutdown includes building surveillance (weekly and monthly contamination surveys), and the accumulation, decontamination, characterization, and disposition of equipment and waste. Several of the rooms contain radiological control areas. The building is intended to be vacated in September 2006, a which time it will be prepared for transfer to MMCIC.

2.2 Past Uses of T Building

T Building was originally built to process radioactive polonium and has seen minor amounts of other radionuclides. From 1949 to 1973, polonium-210 programs included a processing and separation program, fuels research and development program, neutron source program, and a variety of other research, development and production programs with polonium. T Building underwent a significant decontamination in the early 1970s and a substantial modification during the early 1980s in order to accommodate tritium processing operations. A variety of other activities have been done in T Building such as nondestructive testing, environmental testing, gamma and mass spectroscopy, calorimetry, neutron activation analysis, and safeguards research and development (R&D). Building operations have included offices and administrative areas, laboratories, and material storage. Materials stored have included chemical product, office supplies, and newly

purchased waste storage containers. The building has a vault that was used to store secured nuclear materials.

2.3 Summary of Environmental Concerns and Findings - T Building

A summary of environmental concerns and findings associated with T Building is provided in Table 1.

Table 1: Summary of Environmental Concerns and Findings

Description	Comment	Resolution
Lead-Based Paint	Due to the year of construction (1948) and operations conducted in the building, it is likely that lead-based paint exists. Most of the paint coatings were observed to be intact. See Appendix J.	A lead-based paint inspection will be performed prior to transfer. If lead-based paint is found to be present in the building, it will not present a concern unless it becomes damaged.
Chemicals	A list of chemicals recently in the building is provided in Appendix K.	All chemicals will be removed from the building prior to transfer.
Fluorescent Lamps and Polychlorinated Biphenyls (PCBs)	PCB-containing transformers were removed from the building in 1995.	No further action required.
Air Emissions	Air emissions from T Building are exhausted to either the T-East or T-West stacks.	Emissions from the stacks are monitored for radionuclides in accordance with the National Emission Standards for Hazardous Air Pollutants (NESHAPs). Federal Facility Compliance Agreement Act (FFCA) Compliance Work Plan (of 20 February 1995).
Asbestos	Due to its year of construction (1948) it is likely that the building contains asbestos-containing material. See Appendix I.	An asbestos inspection will be performed prior to building transfer. If asbestos-containing material requires removal, it will be removed prior to transfer.
Drainage Sumps	A number of T Building sumps have been identified as Potential Release Sites (PRSs). Table 3 provides a list of sumps that are PRSs and their locations and uses.	Process knowledge and radiological data indicates the sumps are contaminated above applicable radiological release levels. The sump liquid will be analyzed for RCRA materials and radiological levels. The sump liquids and sumps identified in Table 3 will be removed from the building prior to transfer.
Lead	Due to operations that were conducted in the building, it is known that the building contains lead shielding. Appendix J.	Lead present in the building could present a concern if damaged. Lead will be removed from the building prior to transfer.

Table 1: Summary of Environmental Concerns and Findings

Description	Comment	Resolution
Mercury	Process knowledge and the chemical inventory indicates that there are small quantities of mercury and mercury-contaminated items in the building.	Mercury present in the building presents a concern. Mercury and mercury-contaminated items will be removed from the building prior to transfer.
Radiological	Exceeds acceptable limits.	Radiological contamination will be removed such that the building meets release criteria prior to transfer.
Septic System	N/A	N/A
Wastewater	Handled by site wastewater facility.	N/A
Stains & Corrosion/HVAC	N/A	N/A
Storage Tanks	Twenty-five storage tanks are in the building. They have been identified as PRSs.	The PRS tanks will be analyzed and remediated or removed (if necessary) prior to building transfer.
Solid Waste Disposal	N/A	N/A
Migratory Hazards	N/A	N/A
Radon	Within acceptable limits (Appendix H).	N/A
Energetic Material/HVAC	N/A	N/A

N/A: not applicable

2.4 Radiological Characterization Summary for T Building

A review of operational history and radiological survey information was performed on T Building. Operational history indicates that the building was constructed as a polonium processing facility and later converted to a tritium processing facility. Radioactive elements associated with T Building include uranium, plutonium, americium, radium, radon, bismuth, cesium, strontium, and tritium (H-3).

Surveys conducted for radiation protection are routinely conducted throughout the building. A review of all of the radiological survey data supports the conclusion that T Building does not meet the surface release criteria established by DOE Order 5400.5 (See Table 2).

Since the activity detected resulted from site operations, a removal action is recommended. Supporting documentation for the information summarized in the following table is contained in Appendix G.

Table 2: Radiological Summary

TYPE	RSDS (Radiological Survey Data Sheet)	LOCATION	SURVEY RESULTS (dpm/100 cm^2)	SURFACE CONTAMINATION GUIDELINES (dpm/100 cm^2) (Note 1)
Highest Alpha Smearable Activity	02-T-1747	T244/246	107	20
Highest Alpha Fixed Activity	02-T-1747	T244/246	7,000	100
Highest Beta Smearable Activity	02-T-1747	T244/246	78.6	1,000
Highest Beta Fixed Activity	02-T-1747	T244/246	22,000	5,000
Highest Tritium Smearable Activity	02-T-1700	T59	9,591,090	10,000

Note 1: Guideline values per DOE Order 5400.5, Radiation Protection of the Public and the Environment.

In addition to the radiological surveys of the building surface samples, process knowledge indicates that several drains, sumps, and inaccessible areas are also expected to be contaminated. Characterization to confirm contamination has not yet been performed. These areas will be characterized as they become accessible. A characterization plan will be developed to characterize the entire building.

3.0 SITE DESCRIPTION

3.1 Site/Vicinity Location and Characteristics

T Building is located at the DOE MCP site, formerly known as Mound Plant. The site is situated in the City of Miamisburg, Miami Township, Montgomery County, State of Ohio as shown in Appendix B.

The MCP site at one time was situated on approximately 300 acres of land and contained approximately 130 buildings with a total of approximately 1.4 million square feet of floor space (the number of buildings is constantly diminishing as buildings are decommissioned and either sold or demolished). The original 182-acre site, purchased by the Manhattan Engineering District in 1946, consisted of two hills and an intervening valley that runs approximately east and west. The 124-acre tract acquired in 1981 was an undeveloped mixture of fields and woods that undulates and slopes downward to the west, away from the main site. This area was acquired to serve as a buffer and has been used as a staging area and parking area for contractors working onsite.

To the west lies a railroad line and the north south trending Miami-Erie Canal. The northern boundaries of the site abut the residential area of Miamisburg, Ohio. Mound Road marks the northern half of the eastern perimeter of the facility then veers east, away from the southern half of the eastern boundary. A public golf course (belonging to the City of

Miamisburg), the Miamisburg Mound Memorial Park, old agricultural fields, residential lots, and vacant wooded lots border against the facility along Mound Road. Benner Road formed the southern property line of the MCP site (at the 300-acre stage), with agricultural fields and farms occupying the lands beyond.

3.2 Description of Structures, Roads, Other Improvements in Proximity to T Building

The location of T Building is shown in Figures 1 and 3. The building is located on the south side of the Main Hill area of the plant and was constructed directly below the DS Building. To the north and east are roadways, to the south is the COS Building (constructed against the exterior wall of the T East Tunnel) and a grassy hillside, and to the west is a grassy area.

3.3 Current and Past Uses of Buildings in Proximity to T Building

The closest building to T Building is DS Building, which was constructed directly on top of it. The DS Building was used for metrology, and explosive production and development.

To the west of T Building is Building 48. Building 48 was originally built to house offices, a machine shop, and an automation development lab. The automation development area was converted to analytical labs for testing, development, and surveillance of energetic materials. Building 48 now contains office areas and analytical labs.

Buildings E (Environmental) and M (machine shop) were located just north of T Building, but were demolished in 1999 and 2000, respectively. E/E Building Annex contained analytical laboratories used for environmental analysis. Building M was the former machine shop and housed electroplating operations. The areas where those buildings had been located were resurfaced or graded to provide parking and storage areas.

R (Research) Building is also to the north of T Building. R Building was divided into two areas: the "cold" side and the "hot" side. The "hot" side is associated with radiological areas (tritium recovery and various analytical support tasks). The "cold" side of the building contained research and development laboratories, analytical laboratories, a respirator fitting facility, offices, and the library.

COS Building is located to the south of T Building. COS Building was used for production support for weapons components including explosives laboratories, a standards lab, and a robotics lab. It was transferred to MMCIC in 1995.

The facilities in the vicinity of T Building are believed to have had minimal or no environmental impact on T Building.

4.0 RECORDS REVIEW

4.1 General/Historical CERCLA Information

In compliance with permit requirements under the Resource Conservation and Recovery Act (), the Clean Water Act (CWA), Safe Drinking Water Act (SDWA), and Clean Air Act (CAA), the MCP site has applied for or has received permits for its surface water discharges, air emissions, and hazardous waste program. The site is currently operating a hazardous waste storage facility under a RCRA Part B Permit dated October 18, 1996 and maintains a National Pollutant Discharge Elimination System (NPDES) surface water discharge permit with Facility I.D. number OH 0009857. Operations that produce particulate or vaporous emissions are either permitted or registered with the Regional Air Pollution Control Agency (RAPCA) and the Ohio Environmental Protection Agency (OEPA). The site submits annual Emergency and Hazardous Chemical Inventory forms to OEPA, pursuant to the Superfund Amendment and Reauthorization Act (SARA) Title III, the Emergency Planning and Community Right-to-Know Act. The March 2002 version of this report indicated a number of chemicals (meeting the reporting criteria) are/were stored in T Building; see Appendix K.

The Mound Plant was identified as a contaminated site on the National Priorities List under CERCLA (Superfund) in 1989. The Mound site was originally listed because of volatile organic compound (VOC) contamination in the western end of the lower valley area. The cleanup of the site was originally to be accomplished under the CERCLA-mandated procedures for regulating Superfund sites using the Operable Unit (OU) system to define and characterize cleanup areas. As the cleanup effort went forward, it became apparent that the site did not fit the profile for a cleanup strategy based on the operable units. The DOE, the United States Environmental Protection Agency (USEPA), and OEPA designed a new decision making process for the cleanup of the site. The new process is known formally as a "removal site evaluation process" and informally as the "Mound 2000 Process." The Mound 2000 Process system divided the site into geographical parcels containing over 400 PRSs with approximately equal numbers of PRSs concerned with potentially contaminated soil and with potential contamination in or associated primarily with building operations. A PRS is an area where historic or current process knowledge indicates that an area may have had releases of radioactive and/or hazardous materials. For a more detailed description, refer to the *Work Plan for Environmental Restoration of the DOE Mound Site, the Mound 2000 Approach*.

4.2 Specific Record Sources for T Building

4.2.1 Occurrence Reports

A search of the occurrence reporting system revealed 78 reports since 1991 when the reporting system was initiated. Fifteen of these were classified as "unusual" and the remainder as "off-normal." A summary of the reports and one full report is provided in Appendix M.

4.2.2 Spills and Releases

No spills or releases exceeding reportable levels have occurred in T Building. Releases below reportable levels include:

- Release to the environment of less than 0.5 Ci of tritium. This is substantially below the reporting limit of 100 Ci per day (27 September 1994).
- Release to the environment of 0.04 Ci of tritium. This is substantially below the reporting limit of 100 Ci per day (14 February 1994).

4.2.3 Associated PRS Overview

As a result of the investigations and documentation accomplished to comply with the CERCLA cleanup process via the Federal Facilities Agreement (FFA)/DOE Environmental Restoration (ER) Program, DOE and BWXTO have tabulated all the PRSs identified under the various regulatory programs in effect at the site. Of these 440 PRSs, 27 are associated with T Building (see Table 3) and 43 are in proximity to T Building (see Table 4). Additional information is included in Appendix N.

Table 3: PRSs Associated with T Building

PRS	CERCLA or Bldg Related	Binning Status	Description
213	Building	unbinned	Solidification unit
214	Building	unbinned	Solid radioactive waste compactor
215	Building	unbinned	Cooling water sump (Tank 124) Room T-1
216	Building	unbinned	Sanitary waste sump (Tank 125) Corridor 2
217	Building	unbinned	Sanitary waste sump (Tank 126) Corridor 2
218	Building	unbinned	Sanitary waste sump (Tank 127) Corridor 2
219	Building	unbinned	Cooling water sump (Tank 128) Stair 3
220	Building	unbinned	Steam condensate sump (Tank 129) T-78
221	Building	unbinned	Sanitary waste sump (Tank 130)
222	Building	unbinned	Sanitary waste sump (Tank 131)
223	Building	unbinned	Cooling system condensate sump (Tank 132)
224	Building	unbinned	Sanitary waste sump (Tank 133)
225	Building	unbinned	Beta waste water sump (Tank 227) T-23
226	Building	unbinned	Floor drain sump (Tank 228) T-3
227	Building	unbinned	Alpha waste water sump (Tank 229)
228	Building	unbinned	Alpha waste water sump (Tank 230)
229	Building	unbinned	Alpha waste water sump (Tank 231)
230	Building	unbinned	Alpha waste water sump (Tank 232)

PRS	CERCLA or Bldg Related	Binning Status	Description
231	Building	unbinned	Alpha waste water sump (Tank 233)
232	Building	unbinned	Alpha waste water sump (Tank 234)
233	Building	unbinned	Alpha waste water sump (Tank 235)
339	Building	unbinned	Waste water sump (Tank 250)
340	Building	unbinned	Waste water sump (Tank 251)
341	Building	unbinned	Condensate sump (Tank 269) T-90
342	Building	unbinned	Hot side fire water tank (Tank 271) T-1
343	Building	unbinned	Fire water sump (Tank 272)
344	Building	unbinned	Fire water sump (Tank 273)

Table 4: PRSs in Proximity to T Building

PRS	CERCLA or Bldg Related	Binning Status	Description
103	CERCLA	No Further Assessment (NFA)	E Building soils
105	CERCLA	NFA	E Building Solvent Storage Shed
111	CERCLA	NFA	Monitor Well 0034
120	Building	NFA	Room M 108 Metal Plating Rinse Water Tank (Tank 119)
121	Building	NFA	Vapor Degreasers
123	CERCLA	Removal Action (RA)	Area 5, Radioactive Waste Line Break
128	Building	NFA	DS Building Solvent Storage Shed
144	Building	RA	R Building Sanitary Waste Collection Tank (Tank 120)
146	Building	RA	R Building Rooms 121, 144, 146, and 148 entombed drains
147	CERCLA	NFA	HH Building Soils
429	CERCLA	RA	Hot Waste Line - Segment 9
430	CERCLA	RA	Hot Waste Line - Segment 9a
431	CERCLA	RA	Hot Waste Line - Segment 10
432	CERCLA	RA	Hot Waste Line - Segment 11
435	CERCLA	RA	Hot Waste Line - Segment 13b
436	CERCLA	RA	Hot Waste Line - Segment 14

4.2.4 Sampling Data

4.2.4.1 Radiological Surveys

Radiological survey data of T Building report results above screening criteria (see Section 2.4). Supporting documentation is provided in Appendix G.

4.2.4.2 Soil Sampling Data

Appendix L contains a graphic and table presenting results of all soil sampling data within a 15-foot perimeter of T Building. Results that exceed screening levels (10^{-6} Risk-Based Guideline Values (RBGV) plus background or Hazard Index=1 or Core Team approved) are listed in Table 5. All other results are below screening levels.

Table 5: Maximum Results Exceeding Screening Levels

Analyte	Maximum Result	Background	RBGV (10^{-6})	Screening Level
Magnesium	40,500 mg/kg	40,000 mg/kg	NC	40,000 mg/kg
Potassium	34,529 mg/kg	1,900 mg/kg	NC	1,900 mg/kg
Thorium-232+D	2.0 pCi/g	1.4 pCi/g	0.07 pCi/g	1.47 pCi/g

RBGV: most stringent of construction and office worker scenarios per Risk-Based Guideline Values, March 1997, Final, as performed using April 2001 HEAST slope factors.
NC: not calculated

4.2.4.3 Chemical History

T Building includes offices and administrative areas, laboratories, and material storage areas. Materials stored include chemical product, office supplies, low-level radioactive and transuranic waste, and newly purchased waste storage containers. A list of chemicals present in the building between 1994 and 2001 is provided in Appendix K.

4.2.4.4 Lead

No previous lead surveys or sampling data could be found for T Building.

Lead bricks and lead shielding have been removed in various rooms throughout T Building. Lead paint has been identified on various machines and equipment (i.e., gloveboxes and x-ray equipment). In addition, lead has been identified in some building structures (i.e., walls, drain pipes). There are still some lead bricks and shielding in the building. Lead hazards will be removed from the building for appropriate disposal prior to building transfer (Appendix J).

4.2.4.5 Asbestos

Previous sampling data indicated that the building does contain asbestos-containing material (Appendix I). Extensive asbestos abatement was performed in 1990 (MD-10391,

Asbestos Program Manual). However, suspect asbestos-containing material is still present in the building.

A complete asbestos survey of T Building was recently conducted by Helix Environmental. BWXT of Ohio is currently awaiting the asbestos survey report, which will identify any asbestos-containing material and its location in the building. The suspected asbestos-containing materials include thermal system insulation (pipe, tank, and vessel), floor tile, counter tops, and wall penetration packing. This information will be used to develop a scope of work for a Licensed Asbestos Abatement Contractor. The report will also specify which materials have to be removed, and asbestos abatement will be performed prior to building transfer.

4.2.4.6 Radon

The results of the 1989-90 Mound Indoor Radon study indicated an average radon concentration of 0.9 picoCuries/liter (pCi/L) in T Building (Appendix H). The USEPA recommended standard for a maximum radon level is 4.0 pCi/L.

4.3 Review of Building Prints

Building prints were reviewed and no significant items were identified. Floor plans are not available for public release.

4.4 Aerial Photographs

Three aerial photographs are presented in Appendix E: 1947 (during construction), 1949 (post construction), and 1996 (most recent aerial photo). These photographs were reviewed and no significant items were identified.

4.5 Interviews

The current Building Manager, D. LeVan and Facility Manager, J. Allison, were interviewed. They confirmed that T Building needs additional decontamination to meet applicable release criteria prior to building transfer to MMCIC.

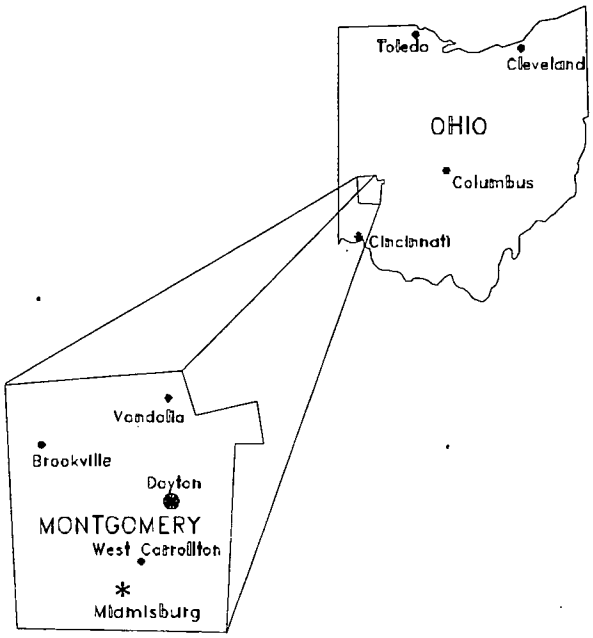
Appendix A

General Listing of Acronyms

ASTM	American Society for Testing and Materials
BDP	Building Data Package
BWXTO	BWXT of Ohio, Inc.
CAA	Clean Air Act
CERCLA	Comprehensive Environmental Response, Compensation & Liability Act
cm^2	centimeters squared
CWA	Clean Water Act
DOE	United States Department of Energy
DPM	disintegrations per minute
EPA	United States Environmental Protection Agency
ER	Environmental Restoration (Program)
FFA	Federal Facility Agreement
HAZMAT	hazardous materials
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
MCP	Miamisburg Closure Project
N/A	not applicable
NPDES	National Pollutant Discharge Elimination System
OEPA	Ohio Environmental Protection Agency
OU	Operable Unit
PCB	polychlorinated biphenvl
pCi/L	picoCuries per liter
PRS	Potential Release Site
RI/FS	Remedial Investigation/Feasibility Study
RAPCA	Regional Air Pollution Control Agency
RCRA	Resource Conservation and Recovery Act
RSDS	Radiological Survey Data Sheet
SARA	Superfund Amendments and Reauthorization Act
SDWA	Safe Drinking Water Act
USEPA	United States Environmental Protection Agency
VOC	volatile organic compound

Appendix B

Map of Montgomery County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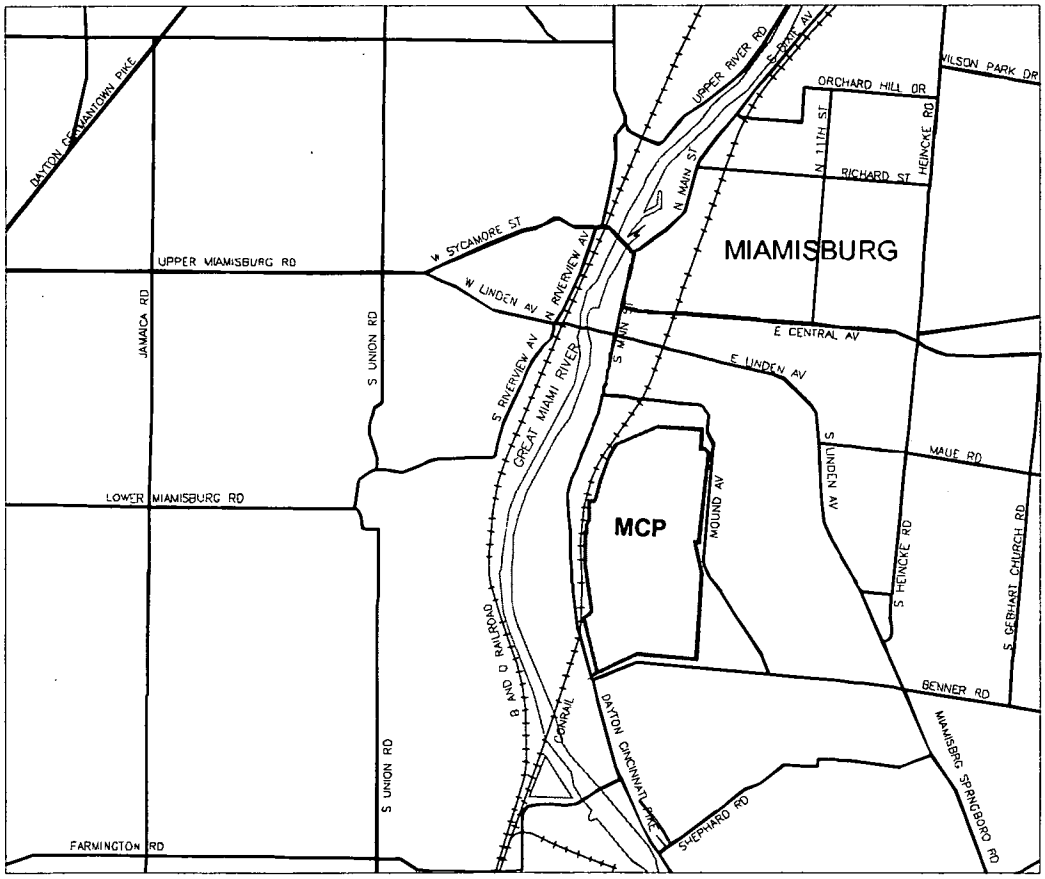
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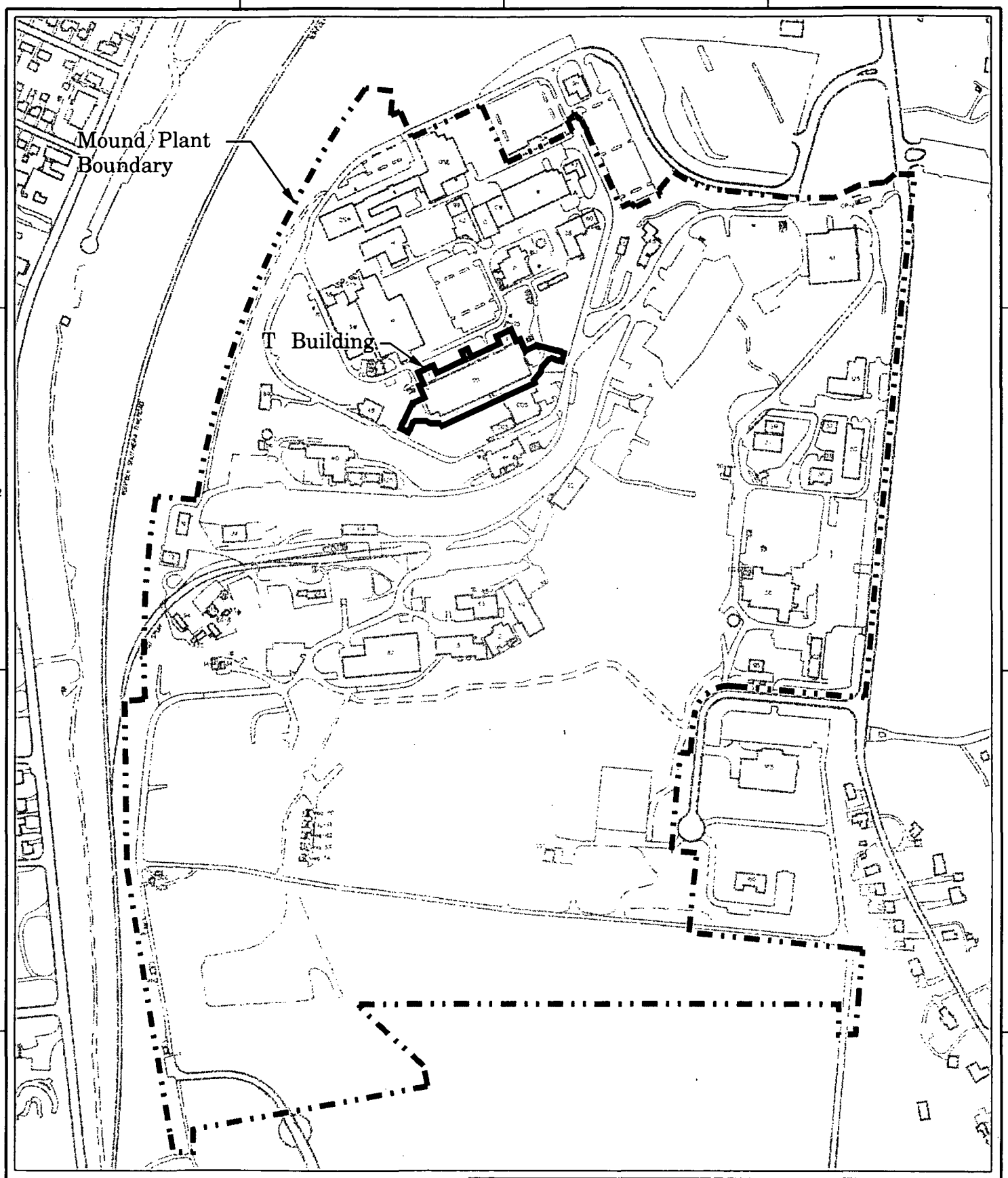
S HEINCKE RD
S GERHART CHURCH RD
B AND O RAILROAD
BENNER RD
CONRAIL
DAYTON CINCINNATI PIKE
MIAMISBRG SPRINGBORO RD
SHEPHARD RD
FARMINGTON RD

B1of1

Appendix C

Figures



Legend

Structures
Paved roadway
Unpaved roadway
Mound Plant boundary
Railroad

0 100 200 400 600 800 1000
Scale in Feet

ISS	DATE	REVISION	BY	CHKR	ENG	LPNEC	APVD	B
	10/29/02	*	SSP					

MOUND

Environmental Restoration Geographic Information System

SHEET	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27
ISSUE																					
SHEET	1	2	3	4	5	6															
ISSUE																					

PART CLASSIFICATION

Figure 1
Location of T Building

DRAWING CLASSIFICATION: UNCLASSIFIED
SIZE
DRAWING NUMBER: gen_site_plan.dgn
JOB NUMBER
DWG TYPE: STE
PRNG: ER-GIS
CAGEC
SCALE
SHEET 1 OF
STATUS: MD-REL-**/**/**
ORIGIN: MSTATION / J

PRS Point

PRS Area

PRS Line

MOUND

Environmental Restoration Geographic Information System

ISS	DATE	REVISION	BY	CHKR	ENG	UPREC	APVD	B	
	10/28/02		SSF						

SHEET 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
ISSUE
SHEET 1 2 3 4 5 6
ISSUE
PART CLASSIFICATION

Figure 2: T Building and Vicinity

DRAWING CLASSIFICATION: UNCLASSIFIED
SIZE
DRAWING NUMBER: vicinity.dgn
JOB NUMBER
DOC TYPE: STE
PROJ: ER-GIS
CAGEC
SCALE
SHEET 1 OF
STATUS: MD-REL-##/##/##
ORIGIN: MSTATION / J

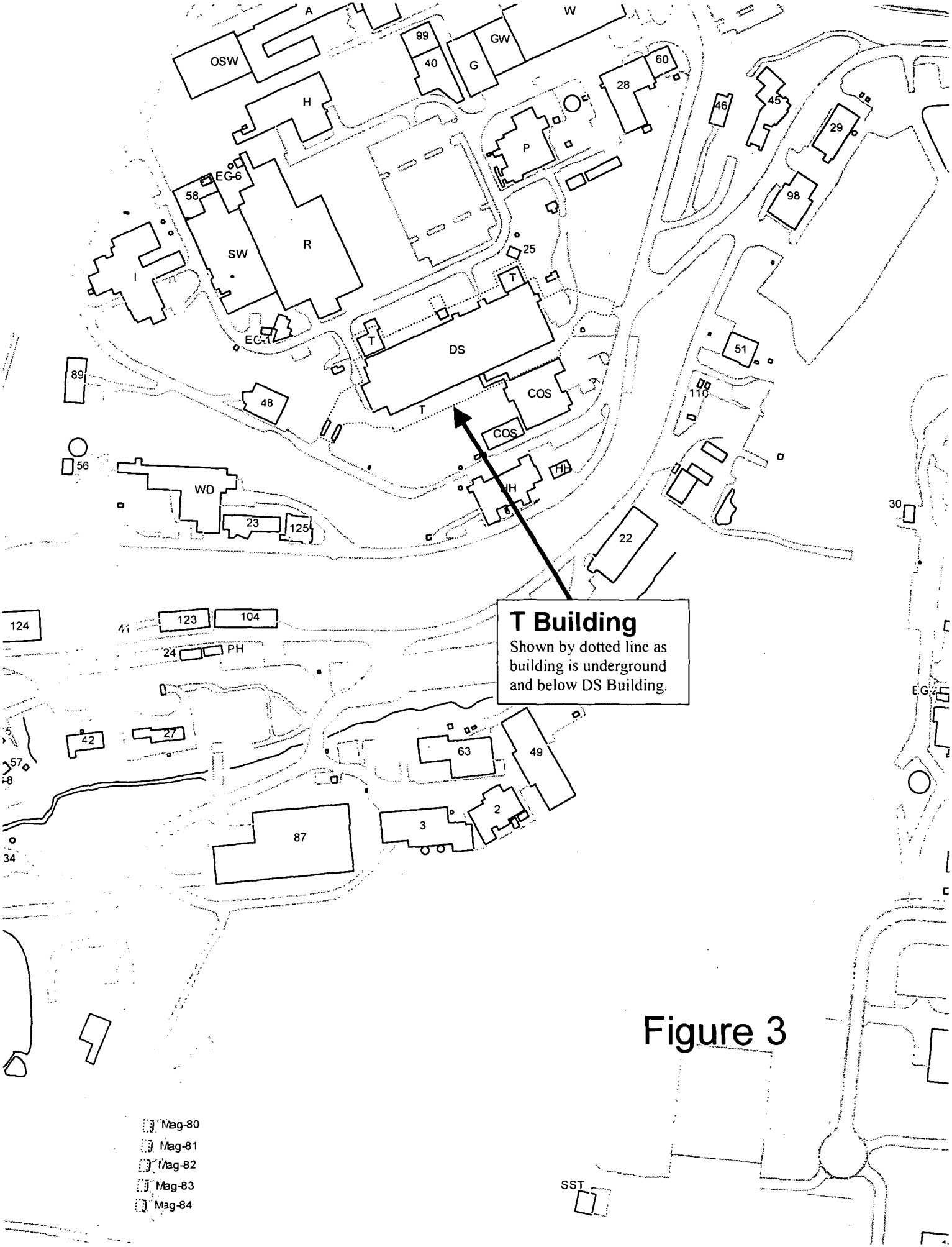
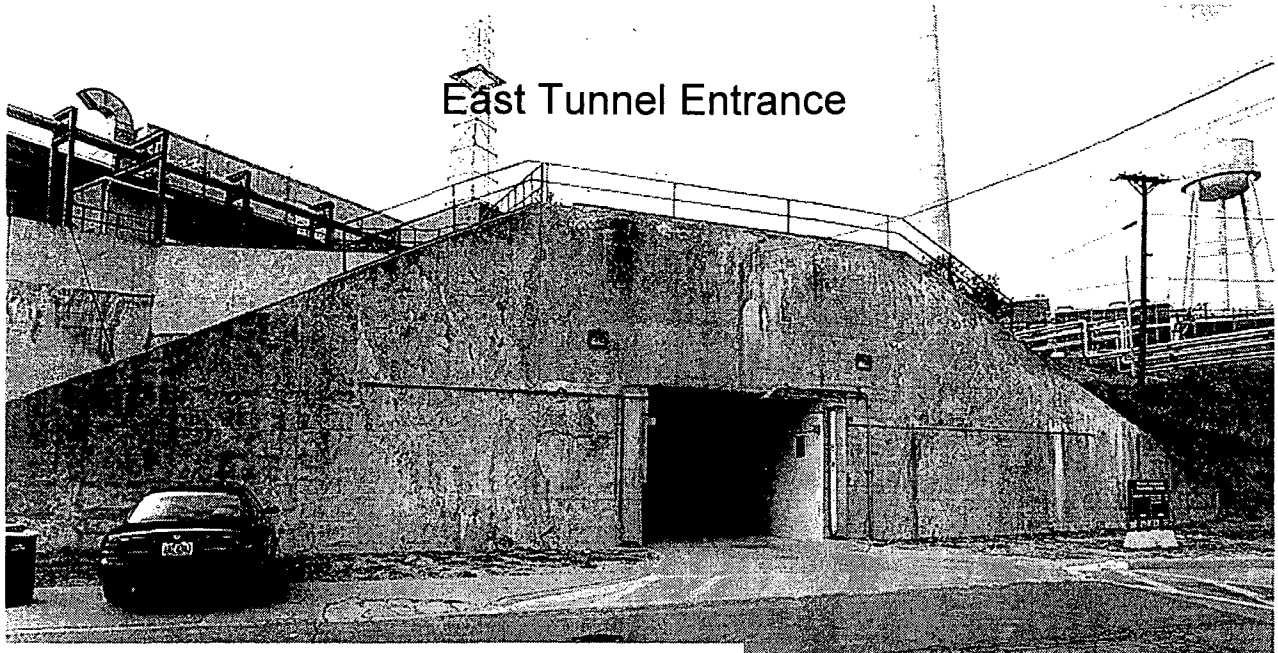

T Building
Shown by dotted line as building is underground and below DS Building.
OSW
H
SW
R
I
EG-6
58
99
40
G
GW
W
A
28
60
46
45
29
98
P
25
T
DS
COS
51
110
89
48
56
WD
23
125
HH
22
30
124
123
104
24
PH
42
27
63
49
2
3
87
34
57
EG-2
SST
Mag-80
Mag-81
Mag-82
Mag-83
Mag-84

Figure 3



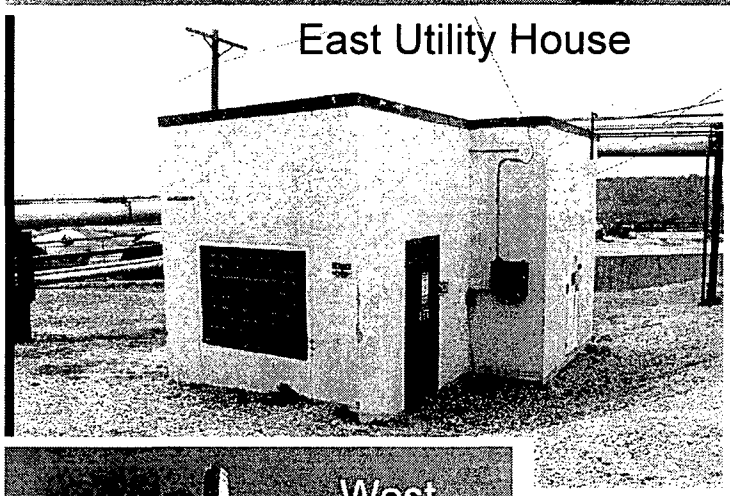
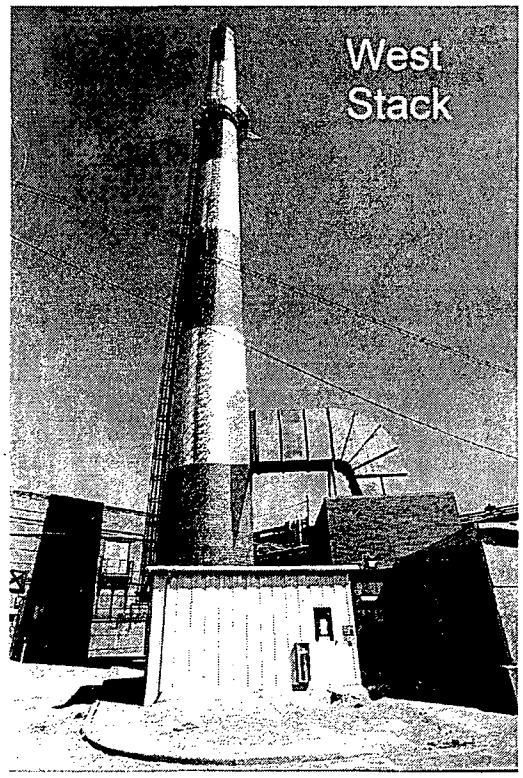
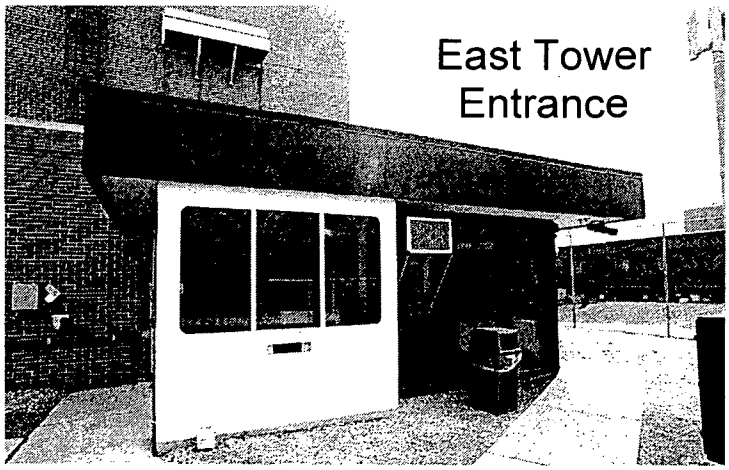


Figure 4: T Building Exterior Photos





Appendix D

Floor Plans

T Building floor plans are not available for public release.

Appendix E

Aerial Photographs

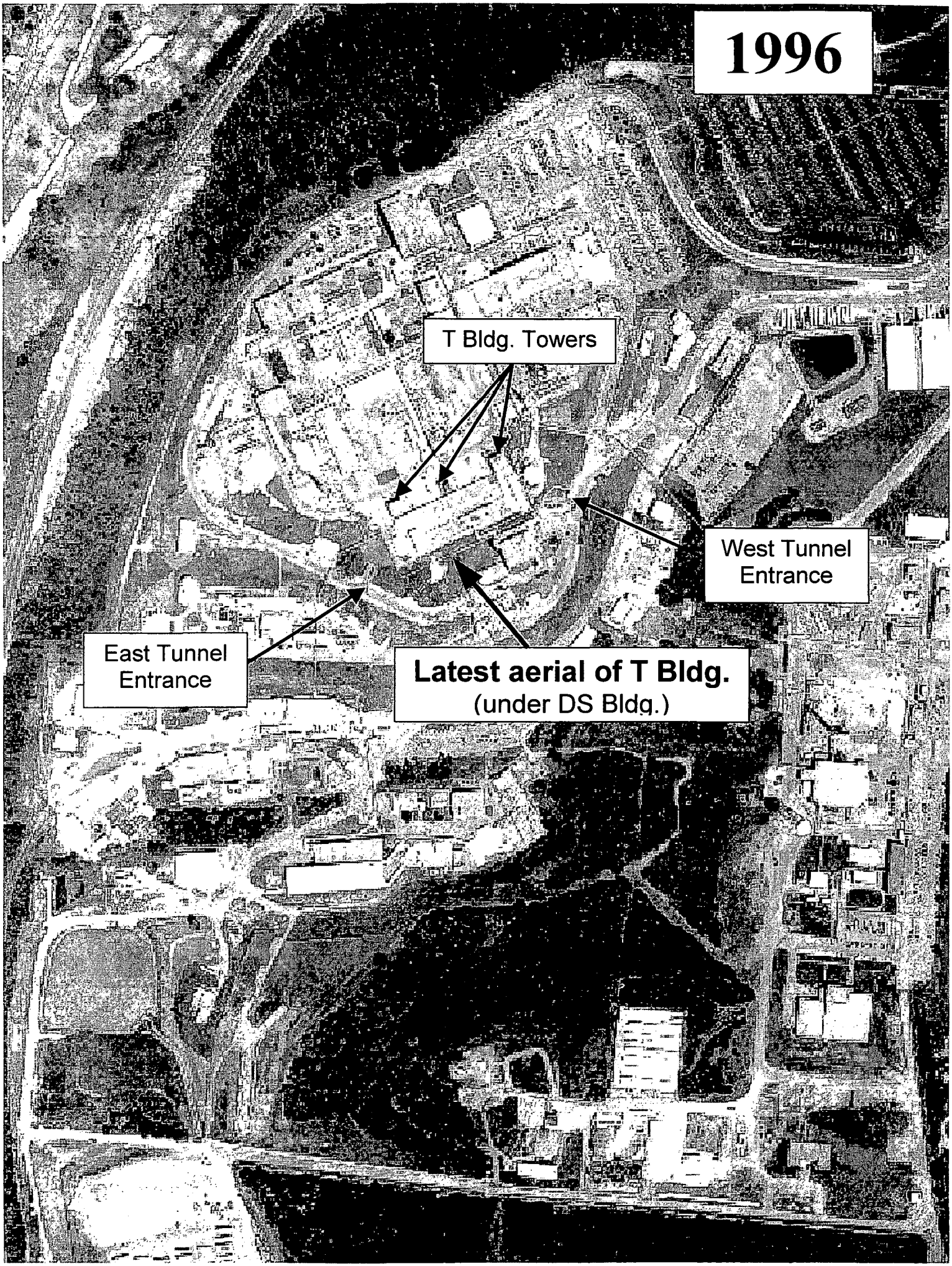
UNCLASSIFIED

UNCLASSIFIED

T Building under construction

UNCLASSIFIED

Mound Aerial Photograph – circa 1949
Photo looking toward west


1996
T Bldg. Towers
West Tunnel Entrance
East Tunnel Entrance
Latest aerial of T Bldg.
(under DS Bldg.)

Appendix F

Environmental Appraisal Report of the Mound Plant (excerpt)

9.30 BUILDING T

9.30.1 Scope of Building T Report

In late 1995 and the early months of 1996, EG&G MAT performed a review of environmental conditions at the Mound Plant. The purpose was to develop a performance baseline, and to identify areas for improvement on a building and a sitewide basis. EG&G MAT did not perform a "due diligence" or Phase I Environmental Site Assessment as specified by ASTM 1527 or ASTM 1528. The scope of the appraisal effort and a discussion of the appraisal methodology are detailed in Sections 2.0 and 5.0, found in Volume 1 of this report.

The appraisal team performed a walk-through of Building T on January 29, 1996. The appraisal team took four days to walk through Building T. The Environmental Appraisal Checklist (EAC) was used to record findings. The EAC is found in Attachment 1 (Section 9.30.6.1). The appraisers were accompanied by the building manager and various process managers. Other information was supplied by the building manager and recorded on the Building Manager's Questionnaire (BMQ), included as Attachment 2 (Section 9.30.6.2).

9.30.2 Description of Building

Building T is a heavily-reinforced, underground concrete structure built in 1948. The building has two floors that are compartmentalized into three general areas by two 30 inch thick fire walls. The reinforced concrete exterior structure has a 15-foot thick roof, 16-foot thick walls on an eight-foot thick slab. The overall design of the building was to withstand a direct hit by a bomb. Access to the building is by tower either at the east and west end of the building or by a service tunnel. Building T is located on the main hill as shown in Attachment 3 (Section 9.30.6.3). Adjacent buildings are Buildings E, M, and R to the north, Building HH to the south, and Building DS (above). The building is serviced by central steam for heat, chilled water, and a electrical substation within the structure (*Mound Facility Physical Characterization*, 12-1-93).

Building T is used for tritium operations, recovery and purification, calorimetry production, heat source calibration, and x-ray and safeguards gamma scanning. Building T was originally used to purify Polonium-210 for use in nuclear weapons. The facility was later used to extract various other radionuclides, such as bismuth and beryllium. Other operations included nickel carbonyl vapor deposition plating processes, neutron activation analysis, and the storage of transuranic (TRU) materials. Building T's gross floor space is 173,000 square feet and the usable floor area is 150,000 square feet. Floor plans are presented as Attachment 4 (Section 9.30.6.4). Extensive asbestos abatement was done in 1990. The building is contaminated with radiological materials (*Mound Facility Physical Characterization*, 12-2-93).

9.30.3 Summary of Findings

Operations in Building T are well-run with a cadre of knowledgeable individuals. Safe Shutdown is working in the building. The individuals assigned to Safe Shutdown are knowledgeable in environmental and waste management requirements. Issues of environmental concern were identified during the walk-through and the review of reference materials.

The primary issue of concern is the management of waste in the building. Waste management does not conform to Mound procedures in several areas of the building. Control and management of low-level radioactive waste will require a significant amount of effort to ensure compliance with waste acceptance criteria for disposal. Process personnel need to be aware of environmental and waste management requirements.

Problems were also noted with accumulation and management of Resource Conservation and Recovery Act (RCRA) regulated wastes in the building. There were three areas in which hazardous waste had been accumulated for an extended period of time. There is a large number of excess and waste chemicals located throughout the building. A water fountain was identified as an Environmental Protection Agency (EPA) listed model suspected of lead contamination. Chemicals identified as Clean Water Act (CWA) pollutants are used in the building. Mound's air emission inventory database is out of date. A sump was observed during the walk-through which is not included in the Underground Storage Tank (UST) Plan. Some compressed gas cylinders were missing full/empty tags. Housekeeping in the tritium handling areas was good, but the remaining portion of the building could be improved.

9.30.4 Observations

9.30.4.1 Air Emissions

Air emissions from Building T are exhausted to either the T-East or T-West stacks. Emissions from the T-East and T-West stacks are monitored for radionuclides in accordance with the *National Emission Standards for Hazardous Air Pollutants (NESHAPs) Federal Facility Compliance Agreement (FFCA) Compliance Work Plan*, (2-20-95). Four applications were submitted on March 5, 1992, for Permits to Operate (PTO). No PTO's were received from the Ohio Environmental Protection Agency (OEPA). The applications cover Tig welding in Room 78A, T-East and T-West stacks, and West Head house (Rooms 315, 323). High efficiency particulate air (HEPA) filter banks filter the exhausts of operations in Building T prior to venting to the stacks. The HEPA filters are tested weekly and maintained in accordance with the Nuclear Standard NEF3-43, *Quality Assurance Testing of HEPA Filters*, and NEF3-45, *Specifications for HEPA Filter Use by Department of Energy (DOE) Contractors*. Operations listed in Mound's air emission inventory database for Building T are not current. The inventory database does not include operations in Rooms 8, 218, 244, 246, 252, and 259. Several labs that are not listed in the inventory database are part of Safe Shutdown. Air emissions listed in the inventory database were not completely verified. There are no fuel-burning units in the building. There was no visual evidence of fugitive dust.

9.30.4.2 Wastewater Emissions

The Mound Facility has three wastewater collection systems: a sanitary wastewater system; a storm water system; and a radioactively contaminated process wastewater system. Sanitary wastewater is treated at an onsite tertiary treatment plant and subsequently discharged by hard pipe to the Great Miami River. Storm water and any non-process wastewater, single pass cooling water, and softener backwash may be discharged directly to the Great Miami River, via the Miami-Erie Canal, or may be diverted to a 3.1-million-gallon holding pond for settling prior to

discharge. Radioactively contaminated wastewater is treated in Building WD by physical-chemical treatment. If appropriate, wastewater may be discharged by hard pipe to the Great Miami River. If concentrations of radioactive contaminants cannot be reduced to acceptable levels, wastewater is solidified and shipped to the Nevada Test Site or Envirocare for disposal. All outfalls are permitted under an active NPDES permit. Routine monitoring activities are in place. Based on NPDES monitoring report data reviewed, it appears that the facility is in compliance with qualitative and quantitative conditions of the permit.

9.30.4.2.1 Sanitary Wastewater

The building has sanitary services. According to a diagram of underground utility lines, presented as Attachment 5 (Section 9.30.6.5), the building is serviced by two sanitary lines. According to the building engineer, there are seven sumps that discharge to the sanitary system. The sumps collect wastewater from sinks, toilets and showers, which is pumped up and out of the building. Confirmation of drainage of sanitary waste into sanitary conveyance lines was not within the scope of this effort, therefore, neither dye tests nor smoke tests were conducted. There is no monitoring of building effluent. Based on current operations identified by the process owner, effluent from Building T should not deviate from that expected by the sanitary treatment plant manager.

9.30.4.2.2 Storm Wastewater

The building is also serviced by storm drains according to Attachment 5 (Section 9.30.6.5). Discharge to the storm sewer is from four sumps and foundation drainage tiles. The sumps collect either single pass cooling water or steam condensate. Sumps were not tested to confirm that they connect to the storm drainage system. Visual inspection of the floor drains showed no sign of odors, colored discharges, or scarring which would indicate that any materials other than cooling water or steam condensate would have entered the storm drainage system. A 10,000 gallon holding tank, part of the fire sprinkler system, can be pumped to the storm drainage system. No record of the tank being used was observed.

9.30.4.2.3 Process Wastewater

According to the building manager and engineer, this building currently does not discharge radioactive wastewater to the WD facility. Attachment 5 (Section 9.30.6.5), a diagram of underground utility lines, indicates that radioactive wastewater lines are connected to the building. A review of the UST Program indicates that tanks Nos. 227, 229, 230, 231, 232, 233, 234, and 235 were once radioactive wastewater sumps. According to the UST Program, all eight sumps have been closed in place by filling with concrete. No visual evidence of old sumps was observed during the walk-through.

9.30.4.2.4 Chemicals

Chemicals in Building T were evaluated against Table V of Appendix D in 40 CFR 122 and several are considered CWA pollutants. Cyclohexane, xylene, and uranium are used in the building. There is a program in place for the orderly review of laboratory chemicals for

reuse/recycle. Chemical storage and handling procedures are in place for proper disposal of chemicals. There have been no reported chemical spills from Building T. Floor drains were observed in areas of operations. A lathe, in Room 323, was observed to have absorbent material around it to absorb oil leaking from the machine. This lathe is located approximately four feet from a floor drain which goes to the sanitary system. There are five flammable cabinets located approximately five feet from a condensate drain in Room 78. The condensate drain goes to a sump which pumps to the storm drainage system. No visible evidence was observed to indicate that chemicals have entered the storm or sanitary drains.

9.30.4.3 Potable and Service Water

Potable water is supplied to the building. Backflow prevention devices are installed at all visible points of potential cross-connections. In Room 215C, a backflow preventer is installed improperly with respect to the eyewash station. The backflow preventer should be after the eyewash, not before. Potable and service water lines are uniquely marked and easily identified in areas where new potable water lines were installed. Seven water fountains supply drinking water for the building. All but one of them are not EPA listed models suspected of lead contamination. Two bottled water coolers are also used in the building. Neither water cooler was an EPA-listed model suspected of lead contamination.

9.30.4.4 Chemical Storage and Hazardous Materials

A chemical inventory for Building T is included in the BMQ in Attachment 2 (Section 9.30.6.2). The information was gathered as part of the annual chemical inventory. The inventory information dates to 1994. The 1995 data were not available when the appraisal was performed. Confirmation of the 1994 inventory by the appraisal team was not attempted, as the current year inventory was on-going. However, storage, handling, and disposal of chemicals observed during the appraisal were reviewed to assure conformance with 40 CFR 122, 40 CFR-260-265 and 268, and 29 CFR 1910. There was no visual evidence of chemical storage incompatibility among remaining materials and janitorial supplies. Material Safety Data Sheets (MSDS's) are available in the building and were reviewed randomly for completeness. There are flammable storage cabinets that meet standard National Fire Protection Association (NFPA) requirements in use in many of the laboratories.

Several chemical containers were observed that did not have labels identifying their contents. In particular, two bottles which appeared to be pump oil in Room 247, a bottle of green paste in Room 323, and two 1-gallon plastic bottles in Room 3E were unidentified. Also in Room 3E, a 5-gallon can labeled methylene chloride was corroded and appeared to be empty. There were numerous chemicals observed in the neutron activation lab that had no appropriate hazard warnings. These chemicals were not listed on the BMQ chemical inventory which is included in Attachment 2 (Section 9.30.6.2). On the dock there was a blue drum, an older style DOE radioactive material drum #006461, which had no markings.

Portions of the building are going through Safe Shutdown. As part of the Safe Shutdown process, chemicals being removed are characterized. Upon characterization the chemicals can be reused elsewhere at Mound if applicable, or they will be disposed of through Waste

Management. According to the Safe Shutdown program, the disposition of chemicals, whether reused or disposed, are handled according to Safe Shutdown procedures in MD-10431. Documentation was not reviewed to determine whether any chemicals or hazardous materials have been removed from Building T.

Compressed gas cylinders were properly stored in locations observed in and outside the building. Signs indicating storage areas for full and empty cylinders in the cylinder bank on the dock were present. Empty and full cylinders were properly stored. Several cylinders in the cylinder bank and in Rooms 11B, 58, 82, and 307 were missing full/empty tags.

The building is equipped with appropriate emergency response equipment such as eyewashes, safety showers, and fire extinguishers. Halon 1211 is the predominant fire extinguisher. Inspection tags for safety showers and eyewashes are present and current. There is an Emergency Evacuation Plan, and signs are posted in the building.

There are four aboveground chemical storage tanks in or around the building that are associated with Building T. There are two 70,000-pound liquid nitrogen tanks located between Building H and T. There is a 70,000-pound liquid argon tank located between Building 25 and the paint shop. Lastly, there is a 30,000-pound compressed helium tank also located between Building 25 and the paint shop. No secondary containment is provided or required for any of these tanks. The two liquid nitrogen tanks are owned and maintained by Airco. The liquid argon tank is owned and maintained by MG Industries. The liquid helium tank is owned and maintained by Air Products. The BMQ located in Attachment 2 (Section 9.30.6.2) lists the 10,000-gallon holding tank in Room 1 as an aboveground tank. This tank is part of the fire water collection system for the radioactive part of Building T and is listed in the UST Program as tank No. 271.

There were 26 sumps identified during the walk-through and review of UST Program. Eleven of those sumps are now inactive and have been closed in place. Eight of those sumps were radioactive wastewater sumps identified in the Water Emission Section. All but one were for collecting alpha wastewater, the other collected beta wastewater. The UST Program lists three sanitary sumps, identified as tank Nos. 228, 250, and 251, as closed in place. The remaining 15 sumps are active with seven being sanitary, four pumping to the storm drainage system, and the remaining are dry sumps that are part of the fire water collection system. The sanitary sumps identified in the UST Plan are tanks Nos. 125, 126, 127, 130, 131, and 133. The sumps identified in the UST Plan that pump to the storm drainage system are identified as tank Nos. 124, 128, 129, 132, and 269. During the walk-through, either tank No. 132 or No. 269 identified in the UST Plan as discharging to the storm drainage system was observed to be a sanitary sump. Those sumps that are part of the fire water collection system are tank Nos. 272 and 273. They pump water to a concrete tank previously identified as tank No. 271. Another fire water sump not listed in the UST Program was observed in Room 2A during the walk-through. All sumps, except tank No. 271, are steel-lined concrete tanks.

A review of engineering drawings indicates that several tanks were incorporated into the Building T structure. Rooms 6E and 243 were originally designed to be service water tanks. Room 243 now contains the Tritium Effluent Removal Facility (TERF). Room 6E is currently a storage area for stock material, however, plans are to convert it to a TRU waste storage. There were

domestic water tanks incorporated into each access tower. The building manager and building engineer suspect that the tanks are not in operation and are empty. These tanks are not identified in the UST Plan. Located beside Room 1B were fuel oil storage tanks. The building manager thought they were steel tanks encased in concrete. They have been removed. The date of removal was not noted.

The building was tested and does contain asbestos-containing building material. Extensive asbestos abatement was done in 1990 (MD-10391, *Asbestos Program Manual*, 9-14-95). There was no visual evidence of friable asbestos. The areas containing asbestos material were observed to be identified and marked indicating the presence of asbestos.

There were no capacitors or transformers containing polychlorinated biphenyls (PCB's) observed in the building during the walk-through. In January of 1996, PCB transformers and capacitors listed in the 1995 PCB Annual Document Log were removed from Building T. Personnel indicated that there was no contamination.

9.30.4.5 Solid, Hazardous, and Radioactive Wastes

According to the decon foreman, no solid wastes are removed from Building T. All waste is treated as radioactive low-specific activity (LSA) waste. The decon foreman stated that solid waste may be segregated in the future as is done in Building SW. Office waste would be removed as solid waste and waste from radiological buffer areas (RBA's) as LSA waste. However, the process for establishing the RBA's has not been documented and/or approved by the cognizant authority as being compliant with the Waste Moratorium Performance Objective by the delegated authority.

As portions of Building T begin the Safe Shutdown process, some hazardous materials may be declared a hazardous waste. Only hazardous waste certified as non-radioactive is allowed to be removed from RBA's. Hazardous wastes are collected and transported by representatives of the EG&G Waste Management Group, and stored in Building 72 for ultimate disposal. There is no onsite treatment of waste. Waste disposal manifests and Certificates of Disposal are maintained by the EG&G Waste Management Group. These conditions were not verified as no hazardous waste pickups were observed during the walk-through.

There are several RCRA satellite accumulation areas (SAA's) for wastes generated in the building. Wastes from these areas are moved to RCRA storage areas when generator accumulation limits are reached. Satellite areas in the radiography area accumulate waste cleaning solutions and a silver sponge from a silver recovery unit. These accumulation areas meet the minimum requirements, however, the following concerns exist:

- A spent silver sponge was labeled as hazardous waste and dated 4-24-95.

- The silver recovery unit is used to recover silver from spent radiographic waste prior to disposal into the sanitary waste system. The Draft RCRA Permit states that spent radiography solutions are accumulated in a satellite accumulation area (SAA). The silver sponge is characterized and managed as a hazardous waste, and not recycled. Waste

Management personnel confirmed that the site does not send the silver sponge to a reclamation facility.

- Waste alcohol is accumulated in a satellite area in Room 216 (Radiography). One container was dated 2-1-90. The other containers were not dated. There were also several empty containers in the area which had hazardous waste labels. The radiography technician stated that these materials have not been used in several years and the process that generated them is no longer used.

Manufacturing process equipment in Rooms 5E, 16, 18 and 244 was observed to contain waste-like materials. Building personnel indicate the processes have been out-of-service in excess of 90 days. Waste-like materials were observed throughout the building, including characters, bricks, and shielding containing lead, fluorescent light bulbs, and batteries. These materials may exhibit RCRA characteristics.

Radioactive solid waste generated in the building results from offices and laboratories in RBA's. These streams were observed to be contained in LSA waste drums. Only administrative controls, i.e., locked rooms, were observed during the walk-through to limit access to waste drums. LSA waste drums with incomplete waste generator forms were noted in Rooms 19, 20, 58, 307 and Corridor 4. The forms were either incomplete with respect to the waste in the drum, or they were not dated, or there were no generator signatures. Waste generators did not have analytical data nor were process knowledge waste characterizations adequately documented. Vacuum pump reservoirs containing used oil were unmarked with respect to content and radiation hazard throughout the tritium handling areas. Some oil reservoirs have a mixture of polyphenyl ether oil and cyclohexane. Two drums of tritium-contaminated oil absorbed on Floorco were observed in Room 58. One drum was dated 6-14-90. Personnel indicated that there is difficulty in characterizing, packaging, and transferring tritium-contaminated oil to Waste Management.

LSA waste drums containing tritium were observed in the tritium-handling facility. The Waste Container Loading List indicated that radiological characterization is based on an estimate by the generator and that there is no method of analyzing LSA waste drums for tritium concentration. The drums are packaged and tested for off-gassing. However, this does not provide for accurate radiological characterization of the drum contents.

Gloveboxes in the tritium handling facility contained quantities of combustible waste and used glovebox gloves. No glovebox operations were on-going. Area personnel indicated that waste is not removed from the boxes in a timely manner as a result of reduced technical personnel and ability to get waste transferred to Waste Management.

Several labs were not inspected because they were posted as high contamination areas. Those areas are Rooms 16A, 19A, 57, 59, 61, 63, 78B, 98, 99, 266, and 277. Interviews of personnel responsible for Rooms 61 and 63 indicated that there are approximately four casks of highly tritiated water. According to the tritium handling process manager, these casks have been stored for more than five years. He indicated that there was no funding to treat this material. This is a very high radiation health and safety risk as the casks are beginning to deteriorate.

It is expected that the Safe Shutdown process will determine that some of the laboratory chemicals will be radioactively contaminated due to DOE operations. Those chemicals that are characterized as RCRA-regulated will become mixed waste. The procedures for handling this waste stream were not reviewed. Decontamination and decommissioning (D&D) of Room 15B will potentially generate mixed waste due to the presence of lead bricks. Lead bricks and characters were observed throughout Building T.

9.30.4.6 Waste Minimization and Pollution Prevention

At Mound there is an active program to minimize waste streams in accordance with state and federal requirements and Executive Order 12856. There is a silver recovery process in the radiography lab and Safe Shutdown personnel are working to reduce hazardous waste generation. Halogenated solvents have been eliminated from the building, with alcohol and acetone as the primary replacements.

9.30.5 Findings and Recommendations

Photographs were taken to document the environmental appraisal. They are included as Attachment 6 (Section 9.30.6.6).

The environmental appraisal of Building SW indicates that the following action items, in priority order, should be planned and scheduled for accomplishment thus assuring that best management and operating practices are in place.

T-1 All waste drums must have complete and documented characterization for chemical, physical and radiological contents of the container. This is required to demonstrate compliance with the Draft RCRA Permit and waste acceptance criteria for disposal. Building personnel and waste management should evaluate container characterization and documentation to ensure compliance with these requirements.

T-2 Personnel should be knowledgeable of waste management procedures concerning SAA's, the characterization of waste, and RCRA regulated materials in a radiation area. The appropriate training should be re-emphasized.

T-3 Loose and uncontrolled waste needs to be containerized to demonstrate effective management, control over waste and proper waste determination. If wastes are not controlled it is difficult to demonstrate compliance with the waste acceptance criteria for disposal.

T-4 Four casks of highly tritiated water have been stored for more than five years. This is a very high radiation health and safety risk as the casks are beginning to deteriorate. A waste determination should be made and the material managed accordingly.

T-5 Waste oil absorbed on Floorco in Room 58 and waste oil in reservoirs should be evaluated for a waste determination and managed accordingly (40 CFR 262.11). Oil reservoirs containing used vacuum pump oil are unidentified with respect to the content

and radiation hazard. Oil reservoirs should be characterized to the type of oil, solvents if any were used, and the level of radioactivity. The difficulties in characterizing, packaging and transferring tritium contaminated oil to Waste Management should be resolved jointly.

T-6 All wastes should be removed from gloveboxes and packaged in containers in a timely manner to ensure proper waste management.

T-7 The practice of recovering silver and managing the silver sponge as a RCRA waste may constitute treatment under RCRA for which the site does not have a permit (40 CFR 265). Waste Management should review this practice to ensure compliance with regulatory requirements (40 CFR 261.6 and 40 CFR 266 for related requirements).

T-8 A spent silver sponge in Room 215 was labeled as hazardous waste and dated 4-24-95. By dating the label, the generator evokes the 90-day accumulation start date. A spent silver recovery sponge in Radiography should be fully characterized and precious metal recovery per 40 CFR 266 and 41 CFR 101-45 should be evaluated before waste disposal is considered.

T-9 SAA's are authorized for processes generating waste. Since Radiography in Room 216 does not have active processes generating spent alcohols, the area should be deleted and waste should be characterized and transferred to Waste Management (40 CFR 262.34).

T-10 In Room 215C, a backflow preventer is installed improperly with respect to the eyewash station. The backflow preventer should be after the eyewash, not before.

T-11 Water fountains suspected of lead contamination should be replaced.

T-12 Manufacturing process units must have waste characterized, removed and managed within 90 Days of equipment becoming idled. Building personnel should evaluate materials in idled equipment and manage accordingly (40 CFR 261.4).

T-13 All chemical containers and secondary containers used for chemicals need to be labeled with their contents and hazards (29 CFR 1910.120).

T-14 Compressed cylinders should carry a legible label or marking identifying their contents, including full/empty tags (CGA P-1).

T-15 Chemicals and compressed gasses in out-of-service areas should be evaluated for reuse or a waste determination performed at the time an area becomes inactive (40 CFR 262.11). This shows due diligence in waste management and prevents chemicals from being stored in lieu of disposal.

T-16 Applications on file with the Regional Air Pollution Control Agency (RAPCA) for air emission sources should be updated. Mound's air emissions database needs to be updated with respect to changing operations and air emissions.

T-17 Housekeeping could be improved throughout Building T. This is more important in the RBA's considering the amount of waste that will be generated from the single-use policy for personal protective clothing.

T-18 CWA pollutants and their continued use should be evaluated and if appropriate, a substitute chemical used which has no health or environmental hazard. The Environmental Technology and Monitoring Section should be informed of this evaluation.

T-19 Acetone, when used on wipes, has not been managed as RCRA waste due to the regulatory interpretation for EPA waste code F003. These wastes may be regulated now due to the Land Disposal Restrictions and Universal Treatment Standards for acetone. Waste Management may want to evaluate these requirements and determine if acetone should also be eliminated from use in the building. Building management should contact Waste Management for assistance with such determinations.

T-20 The UST Plan needs to be updated to incorporate the fire water collection sump in Room 2A. Either tank No. 132 or No. 269 needs to be corrected in the UST Plan. One of them is a sanitary sump. Investigate the addition of the domestic water tanks inside the access towers into the UST Plan.

T-21 Investigate the sumps regarding rate of overflow, leak tightness, and design size adequacy according to DOE Order 6430.

T-22 Since the process for establishing the RBA's has not been documented and/or approved by the cognizant authority as being compliant with the waste moratorium Performance Objective by the delegated authority, compliance of the establishment of RBA's with the waste moratorium Performance Objective needs to be evaluated.

T-23 Investigate Safe Shutdown procedures to assure proper characterization and handling of glovebox filters and other air handling filters.

T-24 Flammable cabinets should not be stored in the vicinity of a floor drain where a chemical spill could be released to the storm or sanitary system.

ENVIRONMENTAL APPRAISAL CHECKLIST

Building Name T

Appraisers: Ronald Paulick
Name Discipline

Name Discipline

Name Discipline

Name Discipline

Building Manager: _____

Process Manager: _____

_____

_____

_____

Date: _____

ENVIRONMENTAL APPRAISAL CHECKLIST

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Environmental Appraisal Checklist

Building Name: T Appraisers: Paulek, Adkins, Ross Date: 1-29-96

9.30-15

Clean Water Act (CWA) Screening Checklist

Question	Response	Comments
Does the outside drain spouting of the building discharge directly to a storm sewer/sanitary system?	(Y) / N	If the answer to any of these questions is yes, proceed with the following checklist.
Are there sinks, toilets and floor drains in the building?	(Y) / N	
Are chemicals being used in the building?	(Y) / N	
Is there a process which discharges to the storm or sanitary system?	(Y) / N	

CWA Checklist

Regulatory Guideline	Question	Response	Comments
40 CFR 122 Appendix D Table V	If chemicals are used/stored in the building, are they on the attached list? Are they properly contained?	Y / (N) (Y) / N	Cyclohexane, Uranium
	Is the building in operation? What are the processes and where do they discharge to?	(Y) / N _____ _____	- Discharge to sanitary waste - Tritium storage & analysis - calorimetry
	Do the floor drains, sinks & toilets appear to be draining properly?	(Y / N)	Drain in Rm 299 was plugged All others ok.
OAC 3745-33	Do the floor drains and sinks drain to a sanitary or storm sewer?	(Sanitary) Storm	
	Is there a sump/pit in the building? If so, what does it contain? How often is it pumped out? Does water collect in sump? Does sump have secondary containment?	(Y) / N _____ 3/45 (Y) / N Y / (N)	11 inactive Sumps 15 active Sumps 7 sanitary, 2 storm 2 condensate, 4 fire - drywells
	Are there any ~~manholes~~, ~~catch basins~~ (drains) or ~~fill pipes in~~ or around the building? If so, are there any unusual appearances, colors, and/or odors? Describe in comment section. Can chemicals flow into the drain?	(Y) / N Y / (N) (Y) / N	- 5 Flammable cabinet in front of condensate drain to storm. - Rm 323 lot the leaking oil 5 ft from drain. - Waste glycol <10µCi stored on ledge of sink.

Environmental Appraisal Checklist

Building Name: T Appraisers: Pulick, Adkins, Ross Date: 1-29-96

Clean Air Act (CAA) Screening Checklist

Regulatory Guideline	Question	Response	Comments
	Are there any rooms that have air emissions sources that vent to the outside of the building, e.g., fumehoods, equipment? If so, note the rooms.	(Y) / N	
OAC 3745-35	Using the air emissions inventory reference for this building, are there any sources in the building that are not documented?	(Y) / N	
	Is there evidence of fugitive dust emissions inside or outside of the building	Y / (N)	

CAA Checklist

Regulatory Guideline	Question	Response	Comments
	Are there existing air permits or applications applicable to the building?	(Y) / N	T-East, T-West stacks.
OAC 3745-31,35	If yes, are the terms and conditions of the permit or the information included on the application (see air emissions database) being followed? Note any differences and update the air emissions database.	Y / (N)	Monthly records not seen Was to begin 1-1-96.
OAC 3745-31	Are there any sources that are not included in the air emissions database? If so, note the room, hood number, active or not, POC, and applicable air emission database information on Table B.	(Y) / N	Chemicals in fumehood in Rm 8 - no active process known
OAC 3745-31-03	Are there sources which are lab equipment of lab fumeheads used exclusively for chemical or physical analyses and bench scale lab equipment? These sources do not require a permit. However, the air emissions database should be updated.	Y / (N)	
	Has there been any release of air contaminants from this building?	Y / (N)	

Environmental . . praisal Checklist

Building Name: T

Appraisers: Faulick, Atkins, Ross

Date: 8-29-96

CAA Checklist

Comments: Note the number of sources/hoods per room, the number that are active, and the POC on the reference document.

TABLE A

Process Source	Room Number	Hood Number	In Database	Active	Chemicals Used	Quantity Used	Quantity to Waste Management	Hours/Yr. Operation	Air Emissions
CALGRIM melting	252		Y / N	Y / N	No chemicals				
machine shop	259		N	Y	welding,				
S. S.	246		Y / N	Y / N					
S. S.	244		N	N					
	218		Y / N	Y / N ?					
	8		N	Y	ethyl alcohol, OAKITE, NaOH				
			Y / N	Y / N					
			Y / N	Y / N					

S. S. Safe Shutdown

Source:

9.30-17

9.30-18

Environmental Appraisal Checklist

Building Name: T Appraisers: Rulick, Adkins, Ross Date: 1-29-96

Hazardous Materials (HM) Screening Checklist

Question	Response	Comments
Are any chemicals used or stored in this building, now or in the past?	(Y) / N	If the answer is yes, proceed with the following checklist.

HM Checklist

Regulatory Guideline	Question	Response	Comments
* 29 CFR 1910.1200(b,f)	All containers of hazardous chemicals shall be labeled as to the identity of the chemical and the appropriate hazard warnings.	Y / (N) No labels	Rm 247 - 2 bottles appear to be oil Rm 323 - 1 small green paste Rm 3E - 2 1-gal plastic bottles
29 CFR 1910.1200(g)	MSDS shall be available to the employees in close proximity to the work area.	(Y) / N	Employees knowledgeable of MSDS
29 CFR 1910.22, 1910.106, 1910.176	All places of employment, passageways, storerooms and service areas shall be kept clean and orderly and in a sanitary manner. Aisles shall be unobstructed. Drums and containers are not leaking and are tightly sealed.	(Y) / N	
29 CFR 1910.106	Storage cabinets for flammable materials are constantly kept closed, are fire resistant and are labeled "FLAMMABLE - Keep Fire Away". Containers inside should be labeled and closed. No spills inside cabinet.	(Y) / N	OK.
29 CFR 1910.106(d)(7)	Incompatible chemicals are ~~not~~ stored together.	Y / (N)	Those observed were OK.
29 CFR 1910.106(d)(4)	Inside Flammable/combustible storage rooms must meet the following: 4 in. raised sill or trench that drains to a safe area, liquid tight wall/floor joints, self-closing doors, gravity or mechanical exhaust providing 6 room changes/hr., exhaust switch located outside room, at least one 3 ft. aisle; no cracks in secondary containment.	Y / N	N/A

* NAA Lab had many vials of chemicals area shutdown.

ENVIRONMENTAL APPRAISAL CHECK LIST

Building: T **Apprasiers:** Paulick, Adkins, Ross **Date:** 1/29/96

RE: Additional Comments on Hazardous Materials Management

- There are large quantities of chemicals in T Building. Many of these appear to be excess. Areas of particular concern include:

  - Room 18 - The Neutron Activation labs had many vials of chemicals that no appropriate hazard warnings and were not on the BMQ inventory. Area under Safe Shutdown.

  - Tunnel - A blue, older style DOE radioactive material drum, #006461, on the dock had no markings at all.

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Environmental Appraisal Checklist

Building Name: T Appraisers: Pawlick, Atkins, Ross Date: 1-29-96

HM Checklist

Regulatory Guideline	Question	Response	Comments
29 CFR 1910.106(d)(7)	All flammable/combustible storage locations have at least one 12-B portable fire extinguisher located outside and within 10 ft. of a door opening into any room for storage. No smoking signs are posted.	(Y) / N	
29 CFR 1910.151	Eyewashes/showers shall be provided within the work area. Ensure unit is operational.	(Y) / N	215C B.F.P. before eyewash not after
CGA P-1 3.3 & 3.3.10	All gas cylinders (full or empty) shall carry a legible label or marking identifying the contents.	Y / (N)	Rm 307 - methane F/E tag Rm 58, 82, 11B
CGA P-1 3.5.3	Full and empty containers should be stored separately with the storage layout planned so that containers comprising of old stock can be removed first with a minimum handling of other containers.	(Y) / N	
CGA P-1 3.5.8	All compressed gas containers in service or in storage shall be stored standing upright and the container shall be secured.	(Y) / N	78A unchained. Others ok.
CGA P-1 4.2.2	Oxygen cylinders shall be separated from flammable gas containers or combustible materials a minimum of 20 ft. or a noncombustible barrier 5 ft. high.	(Y) N	Dock area. 5' wall
29 CFR 1910.104(2)(10)	Oxygen stored as a liquid shall be on a noncombustible surface. Asphalt is considered combustible. Wood and long dry grass shall be cut back 15 ft. from the container.	Y / N	N/A
29 CFR 1910.104	Bulk oxygen storage shall be permanently placarded "OXYGEN - NO SMOKING - NO OPEN FLAMES".	Y / N	N/A
	Is there a sign posted in each work area regarding emergency egress and emergency response action?	(Y) / N	
	Is there an emergency response plan available?	(Y) N	

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9.30-22

Environmental Appraisal Checklist

Building Name: T

Appraisers: Bullock, Atkins, Ross

Date: 1-29-96

HM Checklist

Regulatory Guideline	Question	Response	Comments
	Is there a process area?	(Y) / N	
	Does it have proper containment?	(Y) / N	
	Is there a liquid bulk transfer area?	Y / (N)	
	Is there proper containment?	Y / N	N/A
	Is there an above ground storage tank? If so, complete Table B.	(Y) / N	Per BMQ

Above Ground Storage Tanks Inventory

TABLE B—Above Ground Storage Tanks Inventory

Building	Capacity (Gal.)	Contents	Estimated Volume	In Service	Containment	Visual Stains/ Contamination	If Empty, Flushed
		Liquid Argon	70,000 lb	(Y) / N	Y / (N)	Y / (N)	Y / N
		Compressed Helium	30,000 lb	(Y) / N	Y / (N)	Y / (N)	Y / N
		Fire Water	10,000 gal	(Y) / N	Y / N ?	Y / N	Y / N ?
		Liquid Nitrogen	62,640 lb.	(Y) / N	Y / (N)	Y / (N)	Y / N
		Liquid Nitrogen	70,000 lb.	(Y) / N	Y / (N)	Y / (N)	Y / N
				Y / N	Y / N	Y / N	Y / N
				Y / N	Y / N	Y / N	Y / N

Source: _____

Environmental Appraisal Checklist

Building Name: T Appraisers: Faulick, Adkins, Ross Date: 1-29-96

Safe Drinking Water Act (SDWA) Screening Checklist

Does this facility have potable water?	(Y) / N	If yes, conduct the following survey.

SDWA Checklist

Regulatory Guideline	Question	Response	Comments
* OAC 3745 95-02 (A)	Do actual or potential cross-connections exist between potable (light green) and service water (dark green)?	(Y) / N	Cross-connection removed between raw & potable lines
OAC 3745 95-04 (B)(C)	Are backflow prevention devices installed where cross connections (hoses connected to faucets, hot water tank vented directly to a drain) exist?	(Y) / N	BFP installed @ the sinks. BFP in photo lab Rm 21 is before eyewash not after
	Are sources of service water (janitorial and laboratory faucets, or outdoor spigots) posted as non-potable water sources?	Y / (N)	Lab sinks have BFP's on them
	Does the facility contain any water coolers or fountains that are not lead free? Complete Table C.	(Y) / N	

* New lines were not run through all of T-Building for potable water project.

TABLE C—Water Fountain Survey

Building	Location	Model #	Comments / Date of Analysis for Lead
T	Corr 28	HEW-2	ELKAY ok.
T	Corr 28	?	OASIS
T	Rm 316	EBIH-2	OASIS bottled water ok
T	Rm 350	EBAIH-1-D	Oasis - bottled water ok
T	Corr 3	HEW-2	ELKAY ok
T	Rm 90	CP3	OASIS EPA*
Source:	Corr 20A	EHF-8-1	OASIS ok
	Corr 1	DPM14M	ok
	Rm 150	EFA-8-2	ok

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9.30-24

Environmental Appraisal Checklist

Building Name: T

Appraisers: Pawlick, Adkins, Ross Date: 1-29-96

RCRA Screening Checklist

Does this facility generate waste or use chemicals?	(Y) / N	If yes, conduct the following survey.

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
OAC 3745 52-11	Has any material generated been characterized RCRA hazardous? Was charactarization by analysis or by process knowledge? Are lab results or documentation of process knowledge readily available? Note any uncharacterized material in comment section. Is it waste? If yes, proceed with next section.	(Y) / N (analysis / process) Y / (N) (Y) / N	SEE Page 8A.
OAC 3745 52-11	Are any of the materials noted RCRA hazardous waste? If no, note and stop here. If yes, note the location of the management unit, and the method of management, and proceed with the appropriate section below.	(Y) / N	SAA - Rm 214 - silver SAA - Rm 216 - alcohol

ENVIRONMENTAL APPRAISAL CHECK LIST

Building: T **Apprasiers:** Paulick, Adkins, Ross **Date:** 1/29/96

RE: RCRA Waste Management: Noted RCRA Hazardous Waste

- Hazardous and mixed waste have been generated according to Waste Management operation reports, 1991-1995. Several hazardous and mixed waste streams observed.

- Waste generators did not have analytical info or waste profiles in the tritium handling facilities or the radiography areas. The safe shutdown representatives did have knowledge and some documentation regarding his work in the buildings. There were several areas in the building that did not have control over waste accumulation. Some waste appeared to be incompletely characterized. Several parts of the building had Rad-soft waste that did not have the LLW labels per site procedures, therefore, no RCRA determination.

- Several areas of the building had quantities of paint chips from walls and ceilings, which may be RCRA on disposal.

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Environmental . .ppraisal Checklist

Building Name: T

Appraisers: Paulack, Adkins, Ross Date: 2-29-96

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
I. HAZARDOUS WASTE STORED IN CONTAINERS			
	Is there an area in the building that could qualify as a Satellite Accumulation Area?	(Y) / N	
	Is it treated as such?	(Y / N)	Both *
OAC 3475-52-34 (C)	Has any of the RCRA hazardous waste in this building been managed in Satellite Accumulation Areas? If no, proceed to the next section. If yes, answer the following.	(Y) / N	SAA's in Radiography Alcohol, Acetone & Silver sponge Rm-214, 216
	Are the containers marked with the words hazardous waste, or other words denoting the hazard?	(Y) / N	
	Are the containers in good condition?	(Y) / N	
	Are the waste compatible with the containers?	(Y) / N	
	Are containers managing ignitable hazardous waste stored at least 50 feet from the plant site boundary?	(Y) / N	
	Are containers kept closed and locked except during filling?	(Y) / N	locks on doors administrat
	Are containers moved within 3 days of being filled?	Y / (N)	Silver sponge Rm 214

No ~~Acc~~ SAA's ESTABLISHED -

- Printed circuit boards from safe Shutdown & electronic Shop.
- Lead bricks, lettering
- Batteries
- Tritated oil from vacuum & vane pumps

9.30-27

9.30-28

Environmental Appraisal Checklist

Building Name: T Appraisers: Paulick, Adkins, Ross Date: 1-29-96

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
OAC 3745-52-11 (A)	If a Satellite accumulation area has been abandoned and/or if waste left in place, and the containers may be subject to the 90-day-storage exclusion. If this exclusion does not apply, go to the next section. If the containers have been in storage under this exclusion, answer the following:		- silver sponge - lead bricks - batteries
	Are the containers in good condition?	(Y) / N	
	Are the waste compatible with the containers?	(Y) / N	
	Are the containers kept closed except during filling?	(Y) / N	
	Are the containers managed in such a way, that they are not ruptured, or leaks caused?	(Y) / N	
	Is the area inspected at least once weekly?	Y / (N)	
	Is the inspection recorded? Where is the log? Is it properly completed, dated, and signed?	Y / N Y / N	No inspections
	Are containers managing ignitable hazardous waste stored at least 50 feet from the facility boundary?	(Y) / N	
	Are incompatible wastes managed in such a way that they will not react with another incompatible waste?	Y / N	
OAC 3745-52-34(B)	Has any of the waste (except in Building 23, Building 72 and the Burn Area) been managed in excess of 90-days?	(Y) / N	Silver sponge dated 4-24
	If no go to next section.	in Rm	214. Interviews indicate a
	If yes, note.	lack of	coordination between
	For Building 23, Building 72 & Burn Area use special checklist.	process &	waste management.

lack of knowledge on process personnel.

ENVIRONMENTAL APPRAISAL CHECK LIST

Building: T **Apprasiers:** Paulick, Adkins, Ross **Date:** 1/29/96

RE: RCRA Waste Management: Potential Wastes (RCRA Regulated) Accumulated > 90 Days

- Manufacturing process equipment contains waste-like material that may be RCRA, that has not received a waste determination 40 CFR 261.4(c) These include:

  - Teppler pump in Room 244 may contain mercury.
  - Metalography lab in Room 16 may contain heavy metals.
  - Radiography Room 5E lead bricks and characters.
  - Room 18 Neutron Generation Area had large quantities of lead, oil and cooling unit.

- Fluorescent light bulbs, which fail TCLP at other DOE facilities, are scattered through Room 90. Waste Management may want to evaluate this management practice (262.11) 261.

- Gel cell batteries, and other batteries are abandoned throughout the building. Waste Management may want to evaluate opportunity under the Universal Waste Rule for battery disposition. Safe Shut Down personnel in T Building do a good job of managing batteries once identified.

- There are satellite accumulation areas in Room 214 (Radiography) that have not supported active processes for over four years. Ethyl Alcohol is contained in two 5-gallon cans. Both are labeled Hazardous Waste. One label is dated 2/1/90, the other is not dated. There are also empty cans and jugs labeled hazardous waste. These satellites do not meet the regulatory definition and should be closed 40 CFR 262.34. Interview with Tom Bowman.

- Room 214 - The Radiography Lab had large quantities of chemicals which are no longer necessary for processes in the area. The contract employee in area stated that acetone, ethyl alcohol, and methylene chloride have not been used in Radiography for over four years. He claimed that he worked to dispose of them through Waste Management but had no documentation.

9.30-29

ENVIRONMENTAL APPRAISAL CHECK LIST

Building: T **Apprasiers:** Paulick, Adkins, Ross **Date:** 1/29/96

RE: RCRA Waste Management

- Two drums of tritium contaminated oil absorbed on floorco were located next to a glovebox in Room 57. The generator stated that he believed it to be mixed waste. The draft RCRA Permit identifies this as a mixed waste. It is characterized as RCRA for halogenated solvent and TC metals according to Section C of the Permit. One of the drums was dated 6/14/90. Management needs to determine if this waste is RCRA and manage accordingly.

- There are several reservoirs and auxiliary tanks of the waste oil from tritium processes stored in gloveboxes in the tritium handling facility. The process manager stated that they can no longer ship to Building 23 due to packaging considerations. This waste may be RCRA regulated according to the Draft RCRA Permit. Interviews with mixed waste management indicated that if properly packaged and characterized they should be able to get waste moved to Building 23. There appears to be a disconnect between Waste Management and Process operators on how to handle highly tritiated contaminated oil. Management needs to perform a waste determination and mange waste accordingly.

Environmental Appraisal Checklist

Building Name: T

Appraisers: Pawlick, Adkins, Ross Date: 1-29-96

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
II. HAZARDOUS WASTE STORED IN TANKS			
OAC 3745-52-32 (B)	Has any chemical waste stored in a tank, piece of process equipment or ancillary equipment been in storage in excess of 90-days?	(Y) / N	SEE ATTACHED NOTES.
	If the answer was ~~no~~ YES, then proceed with the following:	(Y) / N	
	Has the tank or piece of equipment had an integrity assessment?	Y / N	N/A
	Is there a sump?	Y / (N)	
	Is it dry?	Y / N	N/A
	Does the tank or equipment have secondary containment?	Y / (N)	
	Does the tank or equipment have leak detection device(s)?	Y / (N)	
	Has spill control prevention been enacted?	Y / (N)	
	Has any hazardous waste stored in a tank, piece of process equipment or ancillary equipment been in storage in excess of 90-days?	(Y) / N	
	If the answer was ~~no~~ YES, then proceed with the following:		
	Has the tank or piece of equipment had an integrity assessment?	Y / (N)	
	Does the tank or equipment have secondary containment?	Y / (N)	
	Does the tank or equipment have leak detection device(s)?	Y / (N)	
	Has spill control prevention been enacted?	Y / (N)	
	Is there a closure plan?	Y / (N)	
	If yes, then note.		
OAC 3745-67	Has any of the waste been managed in a surface impoundment? If yes, then note. Go to the next section.	Y / (N)	

9.30-31

9.30-32

Environmental Appraisal Checklist

Building Name: T

Appraisers: Paulick, Adkins, Ross Date: 1-29-96

RCRA Checklist

Regulatory Guideline	Question	Response	Comments
OAC 3745-68	Has any of the waste been managed in a Landfill? If yes, then note. Go to the next section.	Y / N	
OAC 3745-68	Has any of the waste been managed in an Incinerator (other than Burn area units)? If yes, then note. Go to the next section.	Y / N	
OAC 3745-68	Has any of the waste been managed in a Thermal treatment Unit (other than Burn area units)? If yes, then note. Go to the next section	Y / N	
OAC 3745-69	Has any of the waste been managed in a Miscellaneous Treatment Unit (other than Burn area units)? If yes, then not. Go to the next section.	Y / N	Radiography R-214
OAC 3745-56	Has any of the waste been managed in a Waste Pile? If yes, then note. Go to the next section.	Y / N	

General Comments:

Radiography in Rm 214 - RCRA Permit, Section C, indicates that waste developer and fixer solutions is accumulated in SAA. Instead, waste passes through a silver recovery unit. Wastewater discharges to sanitary. The recovered silver (sponge) is labeled as H.W. Since silver is not recovered, this process may constitute treatment in order to discharge to sanitary. Practice should be reviewed by W.M.

Environmental Appraisal Checklist

Building Name: T

Appraisers: Paulick, Atkins, Ross Date: 1-29-96

Asbestos Screening Checklist

Does this facility contain ACBM?	(Y) / N	If yes, conduct the following survey.

Asbestos Checklist

Note: Routinely, the asbestos standard for ACBM in schools has been applied to facilities for purpose of cleanup. In addition to AEHERA, there are additional standards in the NESHAPS that may be of importance.

Regulatory Guideline	Question	Response	Comments
ADAPTED FROM TSCA ACBM IN SCHOOLS:			
	Has this building been characterized either through process knowledge, by analyses, or by inspection to determine if it contains asbestos?	(Y) / N	Per BMQA MD-10391. issue 3.
	If no for this building or area note this conclusion in the comment section.		Asbestos abatement performed in 1990.
	Is there any evidence of friable asbestos?	Y / (N)	
	Is the asbestos removal properly managed? (See questions listed below)	~~Y / N~~ N/A	If there is no asbestos removal, do not complete the following section.
NESHAPS FOR ASBESTOS FOR ANY ONGOING ASBESTOS REMOVAL:			
40 CFR 61.156	There are no discharges of visible emissions to the outside air from collection, processing, packaging, transporting, or deposition of ACBM during the removal.	Y / N	
40 CFR 61.152(b) (1)	ACBM is treated with water in accordance with 40 CFR 152(b)?	Y / N	
40 CFR 61.154	Is friable asbestos adequately wetted during stripping? Or, has an adequate ventilation and collection system been installed?	Y / N	
40 CFR 61.152	Is wetting continued until the waste friable asbestos is collected for disposal?	Y / N	

9.30-33

9.30-34

Environmental Appraisal Checklist

Building Name: T. Appraisers: Faulick, Adkins, Ross Date: 1-29-96

Toxic Substances and Control Act (TSCA) PCB's Screening Checklist

Does this facility potentially contain any PCB's or PCB contaminated equipment?	(Y)/ N	If yes, are transformers labeled (Blue or Yellow stickers)? If yes, conduct the following survey.

TSCA Checklist

Regulatory Guideline	Question	Response	Comments
40 CFR 761	Has any waste generated in, or from, this building been characterized either through process knowledge or by analyses to determine if it contains PCB's ? If the answer is no, note . If the answer is yes, proceed with next section.	(Y)/ N	PCB waste between 1991-1995 Transformer & capacitors in T-4: Removed in Jan 1996 No contamination indicated.
	Based on an inspection, are any of the materials or equipment potentially PCB contaminated? If no, note and stop here. If yes, note the location of the management unit, and the method of management, and proceed.	(Y)/ N	Neutron generator transformer tested - Sub Station
40 CFR 761.65 (c) (5)	Are PCB articles or containers stored in this building checked for leaks at least once every 30 days?	Y / (N)	None observed
	If yes, are auditable records maintained.	~~Y/N~~	N/A
40 CFR.30 (a) (1) (ix)	Are any PCB transformers in use, or stored for possible reuse, that contain PCB's at concentrations of 500 ppm or greater?	(Y/N)	Were in use, removed during inspection.
	Are they visually inspected quarterly? If yes, are auditable records maintained?	(Y) N P-P	Were Rept. - trans/cap removed.

Environmenta ppraisal Checklist

Building Name: T

Appraisers: Paulick, Adkins, Ross Date: 1-24-96

TSCA Checklist

Regulatory Guideline	Question	Response	Comments
40 CFR 761.30 (a) 1,viii	Are all combustible materials (i.e., paints, solvents, plastics, paper, sawn wood, etc.) cleared from areas containing PCB transformers to a distance of five meters?	Y / N	N/A
40 CFR 761.65 (b) (8)	Are all PCB articles and containers labeled with the date they were placed in storage?	Y / N	
	Are labeled PCB articles and containers stored so that the labels can be referenced?	Y / N	
40 CFR 761.65 (a)	Are all PCB's and PCB contaminated items at concentrations above 50 PPM, that are stored for disposal, stored no longer than one year from the date they were placed in storage?	Y / N	
40 CFR 761.62 (b) (1) (i)	Do all PCB storage areas have an adequate roof and walls to prevent rainwater from reaching the stored items?	Y / N	
40 CFR 761.62 (b) (1) (iv)	Are storage are floors curbed and constructed of continuous smooth and impervious materials?	Y / N	
40 CFR 761.62 (b) (1) (i)	Are the curbs at least 6 inches high?	Y / N	
40 CFR 761.62 (b) (1) (iii)	No drains are allowed in storage areas. Are there drains in the storage areas?	Y / N	

9.30-35

9.30-36

Environmental Appraisal Checklist

Building Name: T

Appraisers: Paulick, Adkins, Ross Date: 1-29-96

TSCA Checklist

Regulatory Guideline	Question	Response	Comments
40 CFR 761.65 (c) (2)	Only non-leaking and undamaged large high voltage PCB's capacitators and PCB-containing electrical equipment are allowed to be stored outside of PCB storage areas, on pallets if stored outside, with containment for 10 percent of the volume of the equipment. Do all PCB's stored in this configuration conform with this requirement?	Y / N None reported.	N/A
40 CFR 761.45 and .65	Are all PCB storage areas marked with a large PCB mark as described in 40 CFR 761.45 (a)?	Y / N	
40 CFR 761.65 (c) (5)	Have all leaking PCB articles and containers been transferred to non-leaking containers?	Y / N	
40 CFR 761.65 (c) (6)	Do all PCB storage containers for the storage of liquid and non-liquid PCB's comply with DOT shipping container specifications?	Y / N	

GENERAL COMMENTS:

House keeping: Large amount of trash/recyclable material has resulted from the removal of PCB transformers. Caution should be exercised on the amount & control of trash in an RBA.

Environmental Appraisal Checklist

Building Name: T. Appraisers: Pawlick, Adkins, Ross Date: 1-29-96

Low-Level Waste and Transuranic Waste Screening Checklist

Does this facility contain radioactive waste ?	(Y) / N	If yes, conduct the following survey.

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
Low-Level Waste			
DOE Order 5820.2A Chapter III	Can any waste generated in, or from, this building be characterized either through process knowledge or by analyses to determine if it is LLW ? If the answer is no, note. If the answer is yes, proceed with next section.	(Y) / N	
DOE Order 5820.2A Chapter III.	Are any of the materials noted by inspection LLW? If no, The audit would stop here, because there are no LLW. If yes, note the location of the management unit, and the method of management, and proceed with the section below.	(Y) / N	LLW generated in future handling & support areas.
DOE Order 5820.2A Chapter III, 3.a.	Have the storage configurations in use in this area been taken into account for keeping external exposures to the general public below 25 mrem/yr?	(Y) / N	
	Is the waste stored in a configuration that protects ground-water resources?	~~(Y)~~ (N)	~~unknown~~ RP. &
DOE Order 5820.2A Chapter III, 3.b.	Has monitoring been conducted in this area in accordance with DOE Order 5820.2A in order to evaluate the area against the performance standard?	(Y) / N	
	Based on field data, does the monitoring conducted in this area conform to the performance standard?	Y / N	

* No sanitary or storm drains in area with LLW / TRU Waste per DOE ORDER 6430

9.30-37

9.30-38

Environmental Appraisal Checklist

Building Name: T

Appraisers: Paulich, Adkins, Ross Date: 1-29-96

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
DOE Order 5820.2A Chapter III, 3.d.	Based on field data, is the characterization of the materials in this area sufficient to assure proper segregation to assure proper segregation, treatment, storage, and disposal?	Y / N	Drums in several areas missing waste generator forms
	Based on field data does the characterization as documented at the time of generation of the waste ensure that the actual physical and chemical characteristics, and major radionuclide content of this material are recorded and known at all stages of the waste management process?	Y / N	discussions w/ personnel indicated lack of consistency regarding rad waste.
	Do characterization data include the following:		
	Physical and chemical characteristics of the waste?	Y / N	Physical - yes, chemical - No
	Volume of the waste (including solidification and absorbent material)?	Y / N	often completed by W.M.
	Weight of the waste (including solidification and absorbent material)?	Y / N	Often completed by W.M.
	Major radionuclides and their concentrations?	Y / N	~~Date~~ - ATTACHMENT. *
	Packaging date, package weight, external volume?	Y / N	Date
	How were the concentration of radionuclides determined? Direct methods?		~~estimated~~ liquid scintillation for [illegible]
	How were the concentrations of radionuclides determined? Indirect methods?		estimated
DOE Order 5820.2A Chapter III, 3.h	Is the storage configuration in long term storage sufficient to meet the performance standard?	Y / N	
	Are records maintained at the facility enabling this waste to be traced from its origin?	Y / N	Not within Building for generator.

ENVIRONMENTAL APPRAISAL CHECK LIST

Building: T **Apprasiers:** Paulick, Adkins, Ross **Date:** 1/29/96

RE: LLW Characterization

- Drums were identified in Rooms 19, 20, 58, 307, and Corridor 4 that did not have waste generator forms per site procedure. Personnel were not available to explain characterization of waste. No identifier for Rad characterization either.

- Personnel in Safe Shutdown were knowledgeable of RCRA and Rad Characterization requirements. Personnel in tritium handling were not as knowledgeable and could not explain the characterization of waste in the area. [Interviews with H. Melke and D. Stephen]. Review of drums with labels identified contents but not characterization.

- Radionuclides are identified, however, no identification for concentration on solid/combustible waste. Oils and liquid wastes are sampled for rad concentration.

- Waste generators in building explained that tritium concentration is based on estimates by generators. They explained that building limit is < 1 Ci per drum. They stated they always put <1 Ci as a standard practice. Some drum logs stated definite numbers such as .5 Ci and .05 Ci. The Decon personnel stage drums and place a plastic bag over them for a set period of time. Health Physics checks the bag for off-gassing. If sample is less than a predetermined amount, the drum is assumed to be < 1 Ci tritium.

- Gloveboxes in tritium handling areas were noted to have quantities of drybox gloves, wipes and other trash backed up in glove boxes. It is a poor housekeeping practice for glovebox operations. Management needs to assign personnel to clean up glove boxes and remove waste at the time of generation.

- Control over soft waste [lab waste] is not adequate. Yellow bags of waste were located in several areas. There were also several areas where housekeeping was poor and loose trash had accumulated. There is no waste determination for these materials. All trash in Building T is considered LSA. This trash may be office and lab trash identified as general trash - a specific waste stream.

ENVIRONMENTAL APPRAISAL CHECK LIST

Building: T **Apprasiers:** Paulick, Adkins, Ross **Date:** 1/29/96

RE: Additional Radioactive Waste Issues

- There are four casks of highly tritiated water in Room 63. These have been stored in excess of five years according to the tritium handling process manager. He indicated that there is no funding to treat this material and that DOE program organizations {Defense Programs (DP) and Environmental Management (EM)} disagree over ownership. This is a very high radiation health and safety risk.

- Gloveboxes in tritium handling areas have quick disconnects that are contaminated with tritium. These connections are used to transfer spent pump oil from gloveboxes to waste containers. Subcontract personnel were contaminated when they used the fittings to anchor caution tape for a job in Room 59. (January 96?) There are several other fittings like this in other process areas in Building T. There are not posted a contamination areas nor is there any physical or administrative control to prevent similar situations. Management indicated that maintenance requests have been submitted to construct covers for these connections. Radiation control is not adequate, the area should be posted as to provide interim protection - Addressed in a Rad Safety Report.

Environmental Appraisal Checklist

Building Name: T Appraisers: Paulick, Adams, Koss Date: 1-29-96

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
TRU WASTE			
	Can any waste generated in, or from this building be characterized either through process knowledge or by analyses to determine if it is TRU waste? If no, note and stop. If yes, proceed with the next section.	Y / (N)	TRU Waste is not generated in Building T
	Are any of the materials noted as being TRU waste during an inspection? If no, note and stop. If the answer is yes, note the location of the management unit, and the method of management and proceed with the appropriate section below.	(Y) / N	12 Boxes of TRU Waste is stored in Tunnel, 55gal drums in Rm 3E.
DOE Order 5820.2A, Chapter II, 3.a	Was this material evaluated as soon as possible in the generating process, to determine if it is TRU (>100nCi/g), if it is recoverable, or if it is waste? (Note if the activity level is less than 100nCi/g, the waste is not TRU, and can be managed as LLW.)	Y / N	N/A
	Did the determination of TRU radionuclide concentration include the mass of the container, including shielding? These should be included in calculating the specific activity of the waste.	(Y) / N	

9.30-41

9.30-42

Environmental Appraisal Checklist

Building Name: T Appraisers: Paulick, Atkins, Ross Date: 1-29-96

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
DOE Order 5820.2A, Chapter II, 3.b	Has the TRU waste been assayed or otherwise evaluated to determine its radioactive content prior to storage?	(Y) / N	
	Has the TRU waste been characterized or otherwise evaluated to determine if hazardous waste is present?	(Y) / N	*
	Has classified TRU waste been treated to destroy the classified characteristics?	Y / N	unknown
DOE Order 5820.2A, Chapter II 3.d	Has all newly generated TRU waste been packaged in non-combustible packaging that meets DOT requirements?	Y / N	N/A
	Have all Type A TRU waste packages been equipped with a method to prevent pressure buildup?	Y / N	Storage is Not Type A
	Have all TRU packages been marked, labeled and sealed in accordance with 40 CFR 261 Subpart C and 49 CFR 172 Subparts D, E and 49 CFR 173 Subpart I?	Y / N	Containers are not RCRA and are not in transport.

* No labeling on boxes to show that waste is not RCRA.
No mixed waste stored in building

Environmental Appraisal Checklist

Building Name: T

Appraisers: Paulick, Adkins, Ross Date: 1-29-96

Low-Level Waste and Transuranic Waste Checklist

Regulatory Guideline	Question	Response	Comments
DOE Order 5820.2A, Chapter II 3.e	Has the TRU waste been segregated in manner that will not permit commingling of TRU waste with LLW or high-level waste?	(Y) / N	
	Has the TRU waste been protected from unauthorized access?	(Y) / N	
	Has the TRU waste been monitored periodically to ensure that it is not releasing its radioactive and/or hazardous constituents?	(Y) / N	
	Has this TRU waste storage area been designed, constructed, maintained, and operated to minimize the possibility of fire, explosion, or accidental release of its radioactive and/or hazardous constituents?	(Y) / N	
	Does the facility have a contingency plan designed to minimize the adverse impacts of fire, explosion, or accidental release of its radioactive and/or hazardous constituents?	(Y) / N *	Storage conditions meet standard.

GENERAL COMMENTS:

9.30-43

Environmental Appraisal Checklist

Building Name: T

Appraisers: Paulick, Adkins, Ross Date: 1-29-96

Waste Minimization/Pollution Prevention Activities Screening Checklist

Does this facility generate waste or use chemicals?	Y / N	If yes, conduct the following survey.

Waste Minimiaztion/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	Based on available information and a walk through, are there any apparent opportunities to curtail the consumption of raw materials (including but not limited to paper, chemicals, electricity, and etc.). If yes, list candidate areas in the comment section.	Y / N	Safe Shutdown is in process of evaluating waste min.
	Are there solvent wastes?	Y / N	Alcohols, Acetone
	Is vehicle maintenance performed?	Y / N	
	Are oils used ?	Y / N	pump oils, HVAC
	Are these corrosive wastes?	Y / N	unknown
	Are there sludges?	Y / N	
	Are there halogenated organic (nonsolvent) wastes?	Y / N	
	Are metals recovered from wastewater?	Y / N	Rm 214 silver recovery
	Is waste sludge generated?	Y / N	
	Are any waste minimization practices used that reduce the generation of sludge?	Y / N	N/A
	Ion exchange process?	Y / N	
	Lead in gasoline lowered to reduce tank sludge toxicity?	Y / N	
	Storage tank agitators installed?	Y / N	
	Corrosive resistant materials used?	Y / N	
	Prevention of crude oil oxidation ?	Y / N	
	Drying?	Y / N	

Environmental Appraisal Checklist

Building Name: T

Appraisers: Paulick, Adkins, Ross Date: 1-29-96

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
HALOGENATED ORGANIC (NONSOLVENT) WASTES			
	Are halogenated organic wastes used as fuel in cement kilns?	Y / (N)	
	Are baghouse filters used to collect pesticides and pesticide intermediates?	Y / N	N/A
	Are solid wastes generated from the collection of baghouse dust?	Y / N	
	Wet instead of dry grinding used?	Y / N	
	The output spray dried?	Y / N	
	Has baghouse emptying and recycling of baghouse fines been scheduled?	Y / N	
	Have operations been evaluated to improve procedures such as handling, storage and spill prevention for increased efficiency?	Y / N	No evidence
METAL WASTES			
	Are any technologies for the recovering of metals from waste rinsewater used?	(Y) / N	
	Evaporation of waste rinsewater?	Y / (N)	
	Reverse osmosis?	Y / (N)	
	Ion exchange?	(Y) / N	silver sponge
	Electrolysis?	Y / (N)	
	Agglomeration?	Y / (N)	
CORROSIVE WASTES			
	Are acidic or basic cleaning solutions used as treatment for pH adjustment chemicals?	Y / (N)	

9.30-45

9.30-46

Environmental Appraisal Checklist

Building Name: T

Appraisers: Faulk, Adkins, Ross Date: 1-25-96

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	Are ion exchange resins used to remove heavy metals and cyanides from acid and base solutions?	Y / N	N/A
	Is crystallization used to remove corrosives from solution by cooling?	Y / N	
	Is the process of evaporation of liquid wastes by heating used to leave behind a more concentrated solution?	Y / N	
CYANIDE AND REACTIVE WASTES			
	Has non-cyanide or low concentration of cyanide process replaced zinc cyanide bath ?	Y / N	N/A
	Are any of these processes used to recycle cyanide wastes?	Y / N	
	Refrigeration/crystallization?	Y / N	
	Evaporation?	Y / N	
	Ion exchange?	Y / N	
	Membrane separation which includes reverse osmosis or electrodialysis?	Y / N	
VEHICLE MAINTENANCE			
	How are auto parts cleaned?	Y / N	N/A
	Solvent sink?	Y / N	
	Solvent dunk bucket?	Y / N	
	Solvent dip tank?	Y / N	
	Are parts cleaning solvents used for anything else besides cleaning parts?	Y / N	
	Are spills reduced by locating sinks or dunk buckets near auto service bays?	Y / N	

Environmental Appraisal Checklist

Building Name: T

Appraisers: Paulick, Adkins, Ross Date: 1-29-96

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	Are cleaned parts drained on the sink to minimize solvent spills?	Y / N	N/A
	Are drip tanks used to capture losses?	Y / N	
	Is a solvent sink used for mineral solvents rather than a dunk bucket or dip tank?	Y / N	
	Does a waste hauler collect solvent waste for recycling or treatment?	Y / N	
OILS			
	What kind of oils are used?		polyphenyl ether, Diesel
	Hydraulic oil?	Y / N	
	Transformer oil?	Y / N	
	Metal working fluids?	Y / N	
	Spent lubricating oils?	Y / N	
	Can the process be modified or changed to use water-based fluids?	Y / N	
	Are these good housekeeping and operation practices used to minimize oil waste production?		
	Use oils not contaminated with other liquids?	Y / N	cyclohexane / polyphenyl ether
	Oil spills prevented?	Y / N	
	Drip pans installed?	Y / N	were applicable
	Oil soaked rags laundered?	Y / N	Disposed as rad waste
	Rags and absorbants used to their limit?	Y / N	

9.30-47

9.30-48

Environmental Appraisal Checklist

Building Name: T

Appraisers: Paulak, Adkins, Ross Date: 1-29-96

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	Are these treatment techniques used to promote separation of oil/water wastes?		N/A
	Reclaiming process to remove water and solvents by heat?	Y / N	
	Gravity setting?	Y / N	
	Screening?	Y / N	
	Centrifugation?	Y / N	
	Filtration?	Y / N	
SOLVENT WASTES			
	Has there been an attempt to reduce volume or toxicity by:		
*	Eliminating solvents?	(Y) / N	using alcohols instead of halogenated VOC
	Reducing the use of solvents?	(Y) / N	
	Reducing the loss of solvents?	Y / N	unknown
	Increasing recyclability?	Y / (N)	
	Are solvents segregated?	(Y) / N	
	Are waste solvents free from water and garbage?	(Y) / N	
	Are recycled solvent containers labeled as such?	Y / N	N/A
	Are containers kept closed?	Y / N	
	Free and sheltered from the elements?	Y / N	
	Are solvent tanks kept as free from contaminations as possible so that the waste can be recycled?	Y / N	
	Is a method used to minimize the use of new materials such as a countercurrent process?	Y / (N)	

* Need to reconsider substitute for acetone since LDR/LUTS reinstated F003 solid wastes

Environmen... Appraisal Checklist

Building Name: T

Appraisers: Paulick, Adkins, Ross Date: 1-29-86

Waste Minimization/Pollution Prevention Activities Checklist

Regulatory Guideline	Question	Response	Comments
	If there is a recycling program, what technique is used?	Y / N	N/A
	Distillation?	Y / N	
	Solids removal?	Y / N	
	Dispersion breaking?	Y / N	
	Dissolved and emulsified organics recovery?	Y / N	
	Are any of these housekeeping procedures used to minimize the production of solvent wastes?		
	Separators cleaned and checked?	Y / N	
	Parts not allowed to enter the degreaser while wet?	Y / N	
	Sludge from the bottom of the tank not allowed to accumulate?	Y / N	
	Lids kept on tanks?	Y / N	
	Freeboard space on tanks increased?	Y / N	
	Are better operating practices used to reduce waste?	Y / N	
	How long is solvent waste stored and where?	_____ _____	Unknown.

9.30-49

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Appendix G

Radiological Information

RADIOLOGICAL SURVEY DATA SHEET

02 T 1747

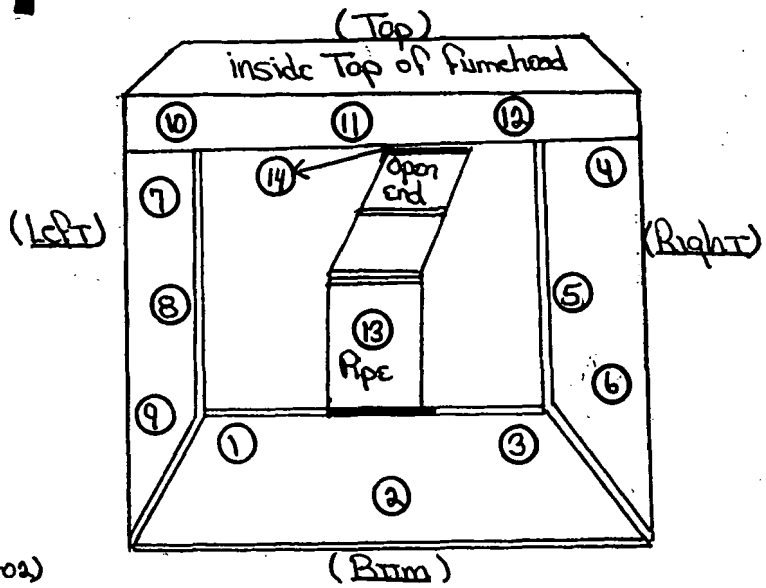
LOCATION: (BLDG/AREA/ROOM) T-244 / T-246	SURVEY NO. 02-TX-463
PURPOSE: Pre Job Survey inside Top of (fumehood)	RWP NO. N/A
	DATE: 9-16-02
	TIME: 0900

(14 wipes)

Emergency RSDS # 02-TX-463

MAP/DRAWING

COPY



XXXX
Fixed Contamination Area
Directs Performed (9-3-02)

FCA
21.3 α
1241 β
XXXX

(Direct Scans)

(14) Underside exterior cabinet doors (Left Side South fumehood 7K α 22K β

(15) Sample was sent to (Bldg. 48) for Isotopic Analysis

Area around fumehood (floor) < 100 α (Direct Scans) < 5K β

LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date
NE ELECTRA	5272/5327	5-23-02
NE ELECTRA	5441/5441	9-28-02
N/A	N/A	N/A

Comple[redacted]	HPs 2836	Date: 9 16 02
Comple[redacted]		
Counted by: (Signature) (See Attached Sheets)	HPs	Date:
Counted by: (Print Name)		
[redacted] gnature)	HPs 2874	Date: 10/17/02
[redacted] Name)		

ML-9620 (2-98)

Survey No. 02-TX 463

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	
1 thru 14	(See Attached	Sheets)		(inside wipes)

COPY

(N/A)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	

(N/A)

COMMENTS: See front side for wipe locations
See RSDS (02 TX 142) for exterior/interior of fumehoods

NOTES:

1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If not needed, mark N/A.

ML-9620 (4-98)

Alpha/Beta Analysis

Unit Type: LB4100/W
Counting Unit ID: Green
Data file name: SMEAR001
Batch Ended: 9/16/2002 10:34
Recalibration Date: 7/8/2004
Serial Number: 64575

Batch ID: GOINS 02-TX-463 [14] JC

Detector ID	Sample ID	Alpha Activity			Beta Activity		
		DPM	σ	flags	DPM	σ	flags
A1	1	0.0	2.0		2.6	2.3	
A2	2	1.8	2.0		0.0	1.4	
A3	3	1.5	1.9		1.7	2.1	
A4	4	0.0	1.9		0.9	1.7	
B1	5	0.0	2.1		0.0	1.4	
B2	6	0.0	2.2		1.3	2.0	
B3	7	1.7	1.9		1.1	2.2	
B4	8	1.7	2.0		2.0	2.2	
C1	9	0.0	2.0		0.0	1.4	
C2	10	0.0	2.0		0.0	1.3	
C3	11	0.0	1.8		0.9	1.7	
C4	12	1.7	1.8		0.4	1.7	
D1	13	0.0	2.1		3.5	2.6	
D2	14	107.4	15.2		78.6	10.7	

Sample 15 on RSDS Sheet. → Another wipe from same location was turned in to have a Isotopic Analysis preformed.

COPY

(3 of 3)

Protocol #: 3 Name:PW H3 #401388 16-Sep-2002 10:59
Region A: LL-UL= 0.5-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL= 2.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=40.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 2.00 QIP = tSIE/AEC ES Terminator = Count
GOINS 02-TX-463 1-14 JC
Conventional DPM
Nuclide 1 = 1
Luminescence Correction On
Data/Application Drive & Path = c:\data

COPY

SAMP	TIME	CPMA	CPMB	CPMC	FLAG	LUM	tSIE	DPM1	A:2S%
-1	10.00	4.89	4.85	4.60	B	2	610.		28.59
0	2.00	634.02	616.00	0.00	L	1	492.	1374.64	5.68
1	2.00	0.11	0.00	3.40	L	0	529.	0.22	3256.
2	2.00	1.23	1.08	6.40	L	0	560.	2.47	307.1
3	2.00	0.00	0.00	2.37	L	11	595.	0.00	0.00
4	2.00	1.32	0.71	3.40	L	0	532.	2.73	287.4
5	2.00	0.00	0.00	1.40	L	27	607.	0.00	0.00
6	2.00	1.61	1.33	0.00	L	0	631.	3.02	240.8
7	2.00	0.00	0.00	2.90	L	12	575.	0.00	0.00
8	2.00	1.68	1.23	1.90	L	0	590.	3.29	231.0
9	2.00	5.54	5.72	4.40	L	9	591.	10.81	93.88
10	2.00	1.61	0.74	3.90	L	0	579.	3.17	240.8
11	2.00	2.57	1.42	0.00	L	7	598.	4.99	169.4
12	2.00	0.00	0.00	1.90	L	11	614.	0.00	0.00
13	2.00	3.34	2.89	0.00	L	0	601.	6.46	128.5
14	2.00	27.44	26.37	141.26	L	0	455.	62.39	29.75

Albert Gibson

5 of 6

RSDS# 02-T-1747

COPY

BWXT of Ohio, Inc.

ANALYTICAL SERVICES REQUEST FOR ANALYSIS

DATE SUBMITTED:	SAMPLE TYPE:	COLLECTED BY:	NUMBER OF SAMPLES
9-16-02	SWIPE/100cm²	[redacted] 5891	1
PROJECT/FUNCTION:	**PRIMARY CONTACT/PHONE NO.:**		**MAIL STOP:**
MHT	BARBER x4374		T-312

CHARGE NUMBER:	DATE(S) COLLECTED:	RSDS# (if applicable):	ATTACHMENTS (list):
C00674	9-16-02	02-T-x 463. 02-T- 1747	NONE

ANALYSES REQUESTED (check):

- ☐ ^3H
- ☐ Characterize/Approve for Sanitary or Storm Discharge. Estimate of Total Volume for Release_____ Approved_____
- ☐ Gross Alpha
- ☐ Air Filter – Isotopic Analysis
- ☒ Characterization per MD-80036, Operation #10015
- ☐ Isotopic Analysis: Pu____ U____ Th____ Am____ Other____
- ☐ Other _____

ADDITIONAL INFORMATION:

(Emergency RSDS Log #02-TX-463 DOBR 10/2/02)

NOTE: Attach additional information (e.g. RSDS, screening results, collection data, and gamma spec. results) if applicable

LAB IDENTIFICATION	SAMPLE LOCATION	SAMPLE NUMBER	RESULTS
0211157	T-244	1	

COMMENTS:

direct contamination < 100 dpm/100cm² α

< 1K dpm/100cm² β

ANALYZED BY:	DATE:

ML-5222 (1-01)

Laboratory ID#: 0211157
Project/function: MHT
Submitted: Sep 16, 2002
Submitted by: W. Barber ✓
Point of Contact: W. Barber x4374
RSDS#: 02-Tx-463
Date: Sep 17, 2002

COPY

Lab ID	0211157
Sample Location	T-244 #1

Isotope	dpm/sample	Uncertainty +/-	LDL
Pu-238 / Am-241	<LDL	<LDL	2.39
Pu-239/240	<LDL	<LDL	2.76
Th-232	<LDL	<LDL	1.50
Th-230	12.72	3.30	1.50
Th-228	<LDL	<LDL	1.50
Th-227	<LDL	<LDL	1.50
U-238	134.28	22.53	2.39
U-235	5.31	1.94	2.76
U-233/234	118.91	20.14	1.50

[redacted] 1585 9-18-02
Analyst HP # Date

[redacted] 5768 9/18/02
HP # Date

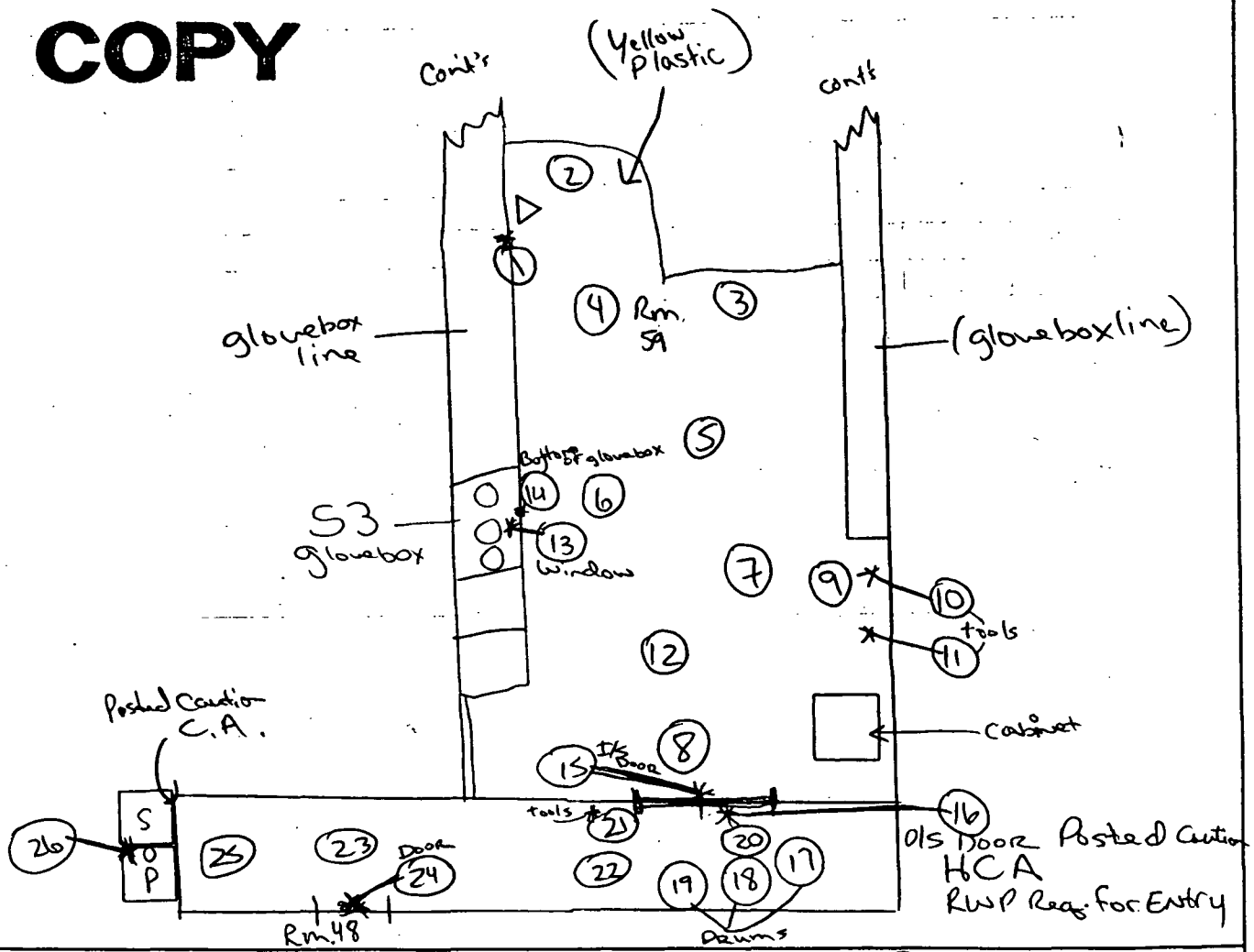
RADIOLOGICAL SURVEY DATA SHEET

 02-T-1700

LOCATION: (BLDG./AREA/ROOM) T-59	SURVEY NO. 02-T-X-419
PURPOSE: Post job survey to verify levels for Down post From HCA to CA (Job U-Bed Removal) Ref. RSDS (02-T-X430) 02T-1711	RWP NO: 1160
	DATE: 09/09/02
	TIME: 1430

MAP/DRAWING

COPY



LEGEND: # = mrem/hr (γ) whole body
E = mrem/hr (β+η+γ) extremity on contact
△# = mrem/hr neutron
[#] = air sample number
(#) = swipe number
(#/α) or /β = direct cont. measurement in dpm/100cm²

INSTRUMENTS USED

Instrument	Serial Number	Cal. Due Date

[redacted]	HP# 7447	Date: 9/10/02
Counted by: (Signature)	HP#	Date:
Counted by: (Print Name)	See Attached Data	
Rev[redacted]	HP# 2836	Date: 9-19-02
Rev[redacted]		

ML-9620 (2-98)

Survey No. 02-T-X-412

RADIOLOGICAL SURVEY DATA SHEET (cont.)

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments
Deleted				

Removable Contamination				
Swipes (dpm/100cm²)				
Sample #	β/γ	Alpha	Tritium	Comments

COPY

N/A

See Attached Data

COMMENTS: All swipes on floor unless otherwise Noted on map; See Swipe #13 Areas to be deconned prior to Dumpost

NOTES:
1. See MD-80036 10002 for calculations of WB, extremity and skin dose rates.
2. To request RO Count Room analysis for β/γ, alpha or tritium, leave column blank. Mark column N/A if not needed. If count room printout of results are attached, write "see attached" in column.
3. Annotate special sample type (e.g., soil, water), special identifiers or otherwise in Comments. If needed, mark N/A.

T-220

Protocol #: 5 • Name:Pw H3 #10106B 10-Sep-2002 14:59
Region A: LL-UL= 0.5-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region B: LL-UL= 2.0-18.6 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Region C: LL-UL=40.0-2000 Lcr= 0 Bkg= 0.00 %2 Sigma=0.00
Time = 2.00 QIP = tSIE/AEC ES Terminator = Count
~~HOLLABAUGH 02-T-X-419 1-26~~ JC
Conventional DPM
Nuclide 1 = 843
Luminescence Correction On

COPY

S#	TIME	LUM	FLAG	CPMA	CPMB	CPMC	tSIE	DPM1	2Sigma
-1	10.00	10	B	3.10	3.10	5.40	674.		0.00
0	2.00	1		645.90	613.90	2.10	510.	1329.07	125.13
1	2.00	1		7277.40	6583.40	0.00	634.	13347.9	923.35
2	2.00	1		24897.4	22601.4	0.00	588.	47315.6	3318.50
3	2.00	1		15119.9	13624.9	0.00	594.	28581.6	2005.04
4	2.00	1		28469.9	25781.9	0.10	600.	53559.2	3715.10
5	2.00	1		20800.9	18767.4	0.10	583.	39731.2	2804.70
6	2.00	1		29049.9	26723.9	0.00	555.	57031.3	4125.16
7	2.00	1		15617.4	14218.4	0.10	574.	30092.8	2149.81
8	2.00	1		6574.40	5937.40	0.00	550.	12965.8	963.00
9	2.00	1		31174.9	27573.4	2.10	587.	59305.2	4156.33
10	2.00	1		79963.4	71018.4	0.10	638.	146264.	9819.11
11	2.00	1		11509.9	10002.4	0.00	628.	21210.3	1457.69
12	2.00	1		77445.9	68149.9	0.60	641.	141339.	9468.20
13	2.00	1		5079385	4307393	20.10	595.	9591090	662861.
14	2.00	18		199122.	189879.	0.10	626.	367338.	24835.6
15	2.00	1		194409.	175717.	1.60	467.	421110.	33412.5
16	2.00	1		2279.90	2106.90	1.60	613.	4247.49	316.07
17	2.00	1		2609.40	2353.90	1.10	530.	5253.89	413.99
18	2.00	1		10237.9	9101.40	0.00	617.	19015.7	1319.83
19	2.00	1		791.40	721.90	2.60	632.	1454.46	122.51
20	2.00	0		1089.90	989.40	0.00	632.	2002.02	159.88
21	2.00	1		3253.40	2966.90	0.10	553.	6396.01	486.99
22	2.00	1		1143.90	1039.90	0.00	605.	2144.21	172.82
23	2.00	1		1223.90	1108.40	0.00	556.	2399.77	197.99
24	2.00	0		164.40	153.40	0.00	626.	303.28	39.53
25	2.00	1		529.40	482.90	0.00	598.	997.55	92.78
26	2.00	0		122.40	110.40	0.00	532.	245.97	37.34

Decon. on 02-T-X-419 02-T-17' JH. (RCT)

√ pcw

J. Collins
9-11-02

Appendix H

Radon Information

UNC Geotech

UNC Geotech
2597 B 3/4 Road
P.O. Box 14000
Grand Junction, Colorado 81502-5504
303/242-8621

April 12, 1990

Dennis Murphy
EG&G Mound Applied Technonogies
P.O. Box 3000
Mound Road
Miamisburg, OH 45343-3000

Dear Mr. Murphy:

I have enclosed the results ~~of the radon~~ measurements made at your site as part of the DOE Indoor Radon Study. A copy of these results can be provided in electronic ~~format if desired~~. The results will be forwarded to the study sponsor, the DOE Office of Projects and Facilities Management, by the end of April.

Please contact me at FTS 326-6293 or commercial (303) 248-6293 if you have any questions.

Sincerely yours,

Mark D. Pearson

Mark D. Pearson
Project Manager
UNC Geotech

cc: DOE Points of Contact

21		ABOVE AIR SAMPLER	161.1	125.0	1670055	1666782	12/14/89	2/16/90	MET - OLD THORIUM STORAGE
21		ABOVE AIR SAMPLERS	116.7		1660586		12/14/89	2/16/90	MET - OLD THORIUM STORAGE
	SM	19 MID EAST WALL	4.0		1661547		12/12/89	2/19/90	HISTORY OF ELEVATED READINGS
48		114 B CLOSET ON SPRINKLER PIPE	3.2		1671292		12/12/89	2/19/90	
19		ROOM 1	2.6		1670051		12/12/89	2/19/90	
	OLD SD BLDG	BASEMENT RIGHT CABINET	2.4		1661555		12/14/89	2/19/90	
55		1 BELOW THERMOSTAT ON E WALL	2.1		1661515		12/18/89	2/19/90	
57		ROOM 1	1.9		1661565		12/12/89	2/19/90	
87		143	1.6		1661563		12/12/89	2/19/90	
990	FIRE STATION	ROOM 002 EQUIPMENT ROOM WITH SUMP	1.4		1654460		12/12/89	2/19/90	
24		ROOM 1 PLANT NORTH WALL	1.3		1672007		12/12/89	2/19/90	
	PAINT SHOP	PS 4	1.2		1661516		12/12/89	2/16/90	
30		ROOM 3 EAST	1.1		1671262		12/12/89	2/16/90	
100		103 MIDDLE OF NORTH WALL	1.0		1670060		12/12/89	2/19/90	
37		6 NORTH WALL	1.0		1670046		12/12/89	2/19/90	
34		34 A WEST WALL	.9	.6	1672062	1672042	12/12/89	2/19/90	MET
102		123	.9		1661577		12/14/89	2/19/90	
61		RM 221 MIDDLE OF NORTH WALL	.9		1661585		12/13/89	2/19/90	
67		101 N	.9		1670020		12/12/89	2/19/90	
G-13	LOG	G-514 WEST WALL	.9		1661544		12/12/89	2/16/90	
	T	CORRIDOR 20	.9		1670030		1/15/90	2/19/90	
	T	153	.9		1670067		1/15/90	2/19/90	
	T	16	.9		1670077		1/15/90	2/19/90	
	T	38	.9		1661586		1/15/90	2/19/90	
105	PARTS MACHINING BUILDING	STAIRWELL NEXT TO ROOM 127	.8		1661564		12/12/89	2/19/90	
25	ARAC	3 ON BOOK CASE MIDDLE	.8		1671314		12/16/89	2/19/90	
66		1 ON DOOR TO ROOM 3	.8		1670049		12/12/89	2/19/90	
	A	153C CENTER CUBICLE WEST WALL	.8		1672056		12/14/89	2/16/90	
	C BUILDING OLD CAFETERIA	NORTHEAST SECTION INTERNAL WALL RM2	.8		1672052		12/12/89	2/16/90	
	R BUILDING	68 NORTH WALL	.8		1670050		12/13/89	2/16/90	
	SM	6 WEST WALL AT OLD RECOVERY	.8		1672057		12/11/89	2/16/90	
	MO BLDG	MO 8	.8		1670045		12/18/89	2/16/90	
87		124	.8		1670032		12/12/89	2/19/90	
68		ROOM 116 ON NORHT WALL RIGHT OF CEN	.7	.6	1661524	1661635	12/12/89	2/19/90	
69		101 NEAR BACK CORNER BY ROOF DRAIN	.7	.6	1666703	1666532	12/15/89	2/19/90	
22		RM 1 EAST CORRIDOR ON STORAGE RACK	.7		1670070		12/13/89	2/19/90	
56	FIRE PUMP HOUSE	ROOM 1 THERE IS ONLY 1 ROOM	.7		1670066		12/12/89	2/19/90	
	E ANNEX	E 225 EAST WALL	.7		1661552		12/18/89	2/16/90	
	POWER HOUSE PH-1	REPAIR SHOP NORTH EAST CORNER	.7		1670040		12/12/89	2/19/90	
	W BLDG	W-135	.7		1661553		12/12/89	2/16/90	
26		ROOM 84 SOUTH WEST WALL	.6	.5	1672048	1667150	12/13/89	2/16/90	
69		RM 7 ON NORTH WALL	.6	.4	1672044	1672077	12/12/89	2/19/90	
26		ROOM 84 SOUTH WEST WALL	.6		1671270		12/13/89	2/16/90	
35		RM 7	.6		1654458		12/14/89	2/19/90	
38	PP BLDG	PP CORR 136	.6		1670016		12/14/89	2/19/90	
72		ON OVERHEAD DOOR BEAM	.6		1672069		1/03/90	2/19/90	
93		HALLWAY 107 (MIDWAY)	.6		1661628		12/13/89	2/20/90	
98	FIRE STATION	ROOM 114 DORM	.6		1661507		12/12/89	2/19/90	
	COS	NW STAIRWELL AT BASEMENT LEVEL	.6		1672086		12/14/89	2/19/90	
	OSM	120 C	.6		1661573		12/12/89	2/16/90	
	SM	150 WEST END GAS BOX	.6		1670043		12/11/89	2/16/90	
	A	34 EAST WALL	.5	.7	1672075	1672051	12/14/89	2/16/90	
47		102 MIDDLE OF EAST WALL	.5	.5	1650110	1666819	12/12/89	2/16/90	

Area	Bldg	Bldg Description	Room	Avg Radon pCi/l	Duplicate Radon pCi/l	Monitor Id	Dupid	Monitor Install Date	Monitor Retrieve Date	Comments
	45		WORK STATION AREA	.4		1681568		12/14/89	2/19/90	
	46		81 EAST WALL	.4		1672070		12/12/89	2/19/90	
	49		WALL OUTSIDE RM 125	.4		1670020		12/14/89	2/19/90	
	51		107 TOP OF FUME HOOD	.4		1681575		12/12/89	2/19/90	
	62		ROOM 134	.4		1672059		12/13/89	2/20/90	
	63W		RM 4	.4		1670070		12/14/89	2/19/90	
	65		ROOM 10 CONFERANCE ROOM	.4		1671284		12/14/89	2/19/90	
	66		OFFICE AREA	.4		1681554		12/12/89	2/19/90	
	68		EAST WALL CENTER BEAM	.4		1681555		12/14/89	2/19/90	
	69		RM 16A	.4		1681576		12/12/89	2/19/90	
	70		170 MEETING ROOM CENTER WALL	.4		1670041		12/12/89	2/19/90	
	88		ROOM 116	.4		1671295		12/12/89	2/19/90	
	95	SR/PP	95- BLD-ROOM41	.4		1661531		12/12/89	2/20/90	
		DS BUILDING	CORRIDOR 2 - 6 FT. ABOVE FLOOR	.4		1670071		12/13/89	2/19/90	
		I	I HALLWAY	.4		1667184		12/12/89	2/19/90	
		N BUILDING	N 21 WEST WALL	.4		1670057		12/15/89	2/20/90	
		POWER HOUSE PH-1	OFFICE SUPERVISOR	.4		1670036		12/12/89	2/19/90	
		R BUILDING	12 SOUTH WALL	.4		1681566		12/13/89	2/19/90	
	34		BURN ROOM			1654481		12/12/89		BURNT (NOT AVAILABLE)
	61		RM 151			1681567		12/13/89		MISSING

Bldg	Bldg Description	Room	Avg Radon pCi/l	Duplicate Radon pCi/l	Nonid	Dupid	Install Date	Retrieve Date	Comments
	R BUILDING	143 NEXT TO NORTH WALL	.5	.5	1660533	1660816	12/13/89	2/16/90	
101		ROOM 5 ON SOUTH WEST WALL IN OFFSET	.6		1671280		12/12/89	2/19/90	
	"B" 175	175 WEST WALL	.5		1670040		12/12/89	2/16/90	
.6		ELECTRICAL PANEL RM IN ELECTRONICS	.5		1670062		12/12/89	2/19/90	
40		100	.6		1654480		12/13/89	2/16/90	
43		1 EAST WALL OVER WATER DISPENSER	.5		1670076		12/12/89	2/20/90	
44		ON BULLETIN BOARD	.5		1670047		12/12/89	2/16/90	
47		102 MIDDLE OF EAST WALL	.5		1670058		12/12/89	2/16/90	
50		CELL 113	.5		1661502		12/13/89	2/19/90	
70		CENTRAL HALLWAY WEST OF DOOR TO RM7	.5		1661605		12/18/89	2/16/90	
89		101 NEAR BACK CORNER BY ROOF DRAIN	.5		1670079		12/15/89	2/19/90	
91		1ST FLOOR	.5		1661525		12/15/89	2/16/90	
91		2ND FLOOR OUTSIDE RM215	.5		1661593		12/15/89	2/16/90	
92		HALLWAY RIGHT OFF ROOM 8	.5		1661509		12/12/89	2/19/90	
94		BAY 2 NORTH WALL	.5		1654477		12/13/89	2/19/90	
	A	215 WEST WALL	.6		1661572		12/14/89	2/16/90	
	A	1880 WEST WALL	.5		1661580		12/14/89	2/16/90	
	COS	119 N WALL NEAR PUNCH PRESS	.5		1654456		12/12/89	2/19/90	
	COS	310 WALL CABINET TO RIGHT OF SINK	.5		1661590		12/12/89	2/19/90	
	E BUILDING	150 WEST WALL	.5		1670033		12/14/89	2/16/90	
	E BUILDING	103 WEST WALL	.6		1670072		12/14/89	2/16/90	
	E ANNEX	E 212 NORTH WALL	.5		1661587		12/19/89	2/16/90	
	GH BUILDING	ROOM 2	.6		1670065		12/12/89	2/16/90	
	GP 81	1A MIDDLE OF WEST WALL	.6		1670054		12/12/89	2/16/90	
	H BLDG	ROOM 127	.5		1661571		12/12/89	2/16/90	
	HH	HH-8	.5		1671268		12/18/89	2/19/90	
	I BUILDING	BASEMENT LEFT CRAWL SPACE DOOR	.5		1671260		12/12/89	2/19/90	
	N BUILDING	N 108	.5		1670056		12/15/89	2/19/90	
	OSE	CORRIDOR 437	.5		1661536		12/15/89	2/16/90	
	OSE	CORRIDOR 301 ACROSS FROM WATER FOUN	.5		1672004		12/15/89	2/16/90	
	OSM	4HT FLOOR	.5		1670020		12/12/89	2/16/90	
	OSE	CORR 212 SOUTH WALL NEAR 218 DOOR	.5		1670036		12/15/89	2/16/90	
	OSM	319	.5		1670069		12/13/89	2/16/90	
	OSM	2ND FLOOR	.5		1661611		12/12/89	2/16/90	
	POWER HOUSE PH-1	STATIONARY BOARD CORNER	.5		1670073		12/12/89	2/19/90	
	R BUILDING	145 WEST WALL ABOVE BALANCE	.5		1654538		12/14/89	2/16/90	
	SN/R TRITIUM COMPLEX	128 OVER LARGE METAL FLOOR DISC	.5		1670019		12/12/89	2/16/90	
	W BLDG	W135 WEST CENTRAL WALL	.5		1671293		12/12/89	2/16/90	
	WO BLDG	WOA 110	.5		1671301		12/18/89	2/16/90	
	"B" 124	EAST WALL	.5		1667189		12/12/89	2/16/90	
	OSE	113 BULLETIN BOARD OPPOSITE ELEVATO	.5		1670027		12/15/89	2/16/90	
TF-2		114 EAST WALL CENTER OF ROOM	.4		1670064		12/12/89	2/19/90	
	HH	HH-24	.6		1667187		12/14/89	2/19/90	
	OS BUILDING	CORRIDOR 1 NEXT TO ROOM 216	.4		1661614		12/13/89	2/19/90	
	GP 81	1A MIDDLE OF WEST WALL	.4	.5	1672135	1661542	12/12/89	2/19/90	
105	PARTS MACHINING BUILDING	136 QC OFFICE	.4		1670017		12/12/89	2/19/90	
27		CELL 8 - WALL	.4		1661582		12/12/89	2/19/90	
28	CERAMIC PRODUCTION	101	.4		1672061		12/12/89	2/19/90	
29		HALLWAY	.4		1672105		12/14/89	2/19/90	
	TEST FIRE BUILDING 3	3-315	.4		1672036		12/12/89	2/19/90	
38	PP BLDG	PP CORR 16/BAY 2 WALL	.4		1661570		12/14/89	2/19/90	
39		BREAK RM	.4		1670050		12/14/89	2/19/90	
42		101 B EAST WALL	.4		1670031		12/13/89	2/19/90	

Appendix I

Asbestos Information

From: Tony B. Adams

To: Mary Sizemore

Date: 10-29-02

Subject: T-Bldg. Asbestos / Lead Characterization

Mary ,

The following is provided for your use.

Lead

Lead bricks and lead shielding have been removed in various rooms through out T-Building. Lead paint has been identified on various machines and equipment (i.e gloveboxes and x-ray equipment). In addition, lead has been identified in some building structures (i.e. walls, drain pipes). There are still some lead bricks and shielding in the building. Lead will be removed from the building for appropriate disposal prior to transitioning the building to MMCIC.

No previous lead surveys or sampling data could be found for T-building.

Asbestos

A complete asbestos building survey of T-Building was just recently conducted by Helix Environmental. BWXT of Ohio is currently awaiting the asbestos survey report from Helix Environmental. The asbestos survey report will identify all asbestos material, which will have to be removed, or it's location identified prior to the building being turned over to the city of Miamisburg Ohio. The asbestos materials include thermal system insulation (pipe, tank, and vessel), floor tile, counter tops and wall penetration packing. Thermal System Insulation that is in tact and not significantly damaged may as an option be left in T-Building. to be managed and monitored. This information will be used to develop a scope of work for a Licesened Asbestos Abatement Contractor.

Tony B. Adams, OHST, CHST
Main Hill Project
ES&H POC

Appendix J

Lead Information

From: Tony B. Adams

To: Mary Sizemore

Date: 10-29-02

Subject: T-Bldg. Asbestos / Lead Characterization

Mary ,

The following is provided for your use.

Lead

Lead bricks and lead shielding have been removed in various rooms through out T-Building. Lead paint has been identified on various machines and equipment (i.e gloveboxes and x-ray equipment). In addition, lead has been identified in some building structures (i.e. walls, drain pipes). There are still some lead bricks and shielding in the building. Lead will be removed from the building for appropriate disposal prior to transitioning the building to MMCIC.

No previous lead surveys or sampling data could be found for T-building.

Asbestos

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Tony B. Adams, OHST, CHST
Main Hill Project
ES&H POC

Appendix K

Chemical Information

Applicable pages of *CY2001 Emergency and Hazardous Chemical Inventory Report* (dated March 2002) are provided.

Also provided is a list of chemicals known to have been in T Building.

BWXT of Ohio, Inc.

CY2001 Emergency and Hazardous Chemical Inventory Report
(excludes Appendix A containing Official Use Only building maps*)

March 2002

MOUND
is operated for the
U.S. Department of Energy
under contract No. DE-AC24-97OH20044

**Contact the Department of Energy Miamisburg Environmental Management Project for a copy of Appendix A if needed for the performance of official duties.*

The following is for MEMP's information:

LEGEND

Building, Outside Storage Tanks, or Outside Storage Areas

B	building (identified by Mound building name)
T	tank (identified sequentially)
A	storage area

Division or Room Location

#	room number in building, if known
DOCK/DCK	loading dock

Floor

#	floor number (1 = first floor; A = first level of basement)

Storage Types

A	above-ground outside tank	K	box
B	below-ground outside tank	L	cylinder
C	tank inside building	M	glass container
D	steel drum	N	plastic container
E	plastic or nonmetallic drum	O	tote bin
F	can	P	tank wagon
G	carboy	Q	rail car
H	silo	R	other
I	fiber drum	U	ubiquitous
J	bag	V	vat

Storage Conditions

1	ambient pressure
2	greater than ambient pressure
3	lower than ambient pressure
4	ambient temperature
5	temperature maintained by heating
6	temperature maintained by cooling
7	cryogenic conditions

Amounts

Code (C)	Pounds
01	0 - 99
02	100 - 999
03	1000 - 9999
04	10,000 - 99,999
05	100,000 - 999,999

U. S. DOE -- Mound Plant
Emergency and Hazardous Chemical Inventory (CY01)

NOTES

1. Building "T" is not located on the site map. This building is located under Building "DS."

2. There are four 500-gallon portable tanks of diesel fuel which may be located anywhere on plant site at any given time. Therefore, no location codes were given for this item.

3. Ethylene glycol is used in the plant chilled water system. The ethylene glycol is distributed throughout the plant site in closed pipes. Therefore, the spaces for "Building, Tank, or Area" and "Division or Room Letter" have been left blank.

Ohio State Emergency Response Commission
c/o Ohio EPA, Lazarus Government Center
P. O. Box 1049, 122 South Front St.
Columbus, OH 43216-1049

STAPLE

Emergency and Hazardous Chemical Inventory Form

4.1 Facility Name: U. S. DOE - MOUND PLANT
City: MIAMISBURG
County: MONTGOMERY
Exact Street Location (no Box #'s): 1 MOUND ROAD
Zip Code: 45342

4.2 For Filing Date: 03/01/02
4.3 [ ] Check here if form and FACILITY MAP are Confidential and print "CONFIDENTIAL FORM" here: _____
4.4 [ ] Check if Revision
4.5 [x] I Have Attached a Facility Map

5.0	Chemical Description										Hazard Class					Location of Chemicals						Amount			
	CAS REGISTRY NO.	SPECIFIC CHEMICAL NAME	PURE	MIXTURE	COMPONENTS	EHS CHEMICAL	SOLID	LIQUID	GAS	TRADE SECRET	ACUTE	CHRONIC	FIRE	REACTIVE	RELEASE OF PRESSURE	B, T, OR A BUILDING, TANK OR AREA NO.	DIVISION OR ROOM LETTER	FLOOR	STORAGE TYPE CODE	PRESSURE & TEMPERATURE CONDITIONS	LOCATION-CONFIDENTIAL	MAXIMUM	AVERAGE	UNITS	NO. OF DAYS ON SITE
1	7440-37-1	argon	X						X		X				X	B-T	9	1	L	2,4		01	01	C	365
2	7440-37-1	argon	X						X		X				X	B-T	37	1	L	2,4		02	01	C	365
3	7440-37-1	argon	X						X		X				X	B-T	90	1	L	2,4		01	01	C	365
4	7440-37-1	argon	X						X		X				X	B-T	99	1	L	2,4		01	01	C	365
5	7440-37-1	argon		X					X		X				X	B-T	99	1	L	2,4		02	01	C	365

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Richard Provencher, Director, USDOE, MEMP
NAME AND OFFICIAL TITLE OF OWNER OR OWNERS AUTHORIZED REPRESENTATIVE

SIGNATURE

2/27/02
DATE SIGNED

Ohio State Emergency Response Commission
c/o Ohio EPA, Lazarus Government Center
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1	7440-37-1	argon	X						X		X				X	B-T	266	2	L	2,4		02	02	C	365
2	7440-37-1	argon		X					X		X				X	B-T	266	2	L	2,4		02	02	C	365
3	7440-37-1	argon		X					X		X				X	B-T	275	2	L	2,4		01	01	C	365
4	7440-37-1	argon	X						X		X				X	B-T	307	2	L	2,4		02	02	C	365
5	7440-37-1	argon		X					X		X				X	B-T	11A	1	L	2,4		02	02	C	365

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2	7440-37-1	argon	X						X		X				X	B-T	2B	1	L	2,4		01	01	C	365
3	7440-37-1	argon	X						X		X				X	B-W	dock	1	L	2,4		02	02	C	365
4																									
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1	107-21-1	ethylene glycol	X					X				X				B-48	211	2	N	1,4		02	02	C	365
2	107-21-1	ethylene glycol	X					X				X				B-G	1	1	N	1,4		01	01	C	365
3	107-21-1	ethylene glycol	X					X				X				B-G	1	1	D	1,4		02	02	C	365
4	107-21-1	ethylene glycol		X				X				X				B-P		1	D	1,4		03	03	C	365
5	107-21-1	ethylene glycol	X					X				X				B-T	58	1	N	1,4		01	01	C	365

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1	107-21-1	ethylene glycol		X				X				X				SEE NOTE 3			U	2,4		05	05	C	365
2	107-21-1	ethylene glycol	X					X				X				B-T	307	2	M	1,4		01	01	C	365
3	107-21-1	ethylene glycol	X					X				X				B-T	7A	1	M	1,4		01	01	C	365
4																									
5																									

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1	7440-37-1	nitrogen	X						X		X				X	B-T	7	1	L	2,4		01	01	C	365
2	7782-37-9	nitrogen	X					X			X				X	B-T	61	1	L	2,4		01	01	C	365
3	7782-37-9	nitrogen		X					X		X				X	B-T	63	1	L	2,4		01	01	C	365
4	7782-37-9	nitrogen	X						X		X				X	B-T	83	1	L	2,4		02	02	C	365
5	7782-37-9	nitrogen	X						X		X				X	B-T	99	1	L	2,4		01	01	C	365

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1	7782-37-9	nitrogen	X					X	X		X				X	T09			A	2,7		04	04	C	365
2	7782-37-9	nitrogen	X						X		X				X	B-T	266	2	L	2,4		01	01	C	365
3	7782-37-9	nitrogen	X						X		X				X	B-W	dock	1	L	2,4		02	02	C	365
4																									
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OIL, USED	VI980133	BULKED	0.25	GALLON	CAN, PLASTIC
OIL, WASTE 502	VI980136	BULKED	1.00	GALLON	CAN, PLASTIC
OS 124 PROPHENYL ETHER	CI12061	NOT FOUND	0.25	GALLON	CAN, METAL
OXYGEN	VI980116	NOT FOUND	1.00	EACH	CYLINDER, COMPRESSED GAS
OXYGEN	VI980120	NOT FOUND	1.00	EACH	CYLINDER, COMPRESSED GAS
OXYGEN-HELIUM	CI960895	NOT FOUND	1.00	EACH	CYLINDER, COMPRESSED GAS
OXYGEN-HELIUM	VI980118	NOT FOUND	1.00	EACH	CYLINDER, COMPRESSED GAS
PHENYL ETHER, 4 RING	VI980130	PROCESS	5.00	GALLON	CAN, METAL
REFRIGERANT	CI960672	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
REFRIGERANT	CI961277	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
REFRIGERANT	CI971975	NOT FOUND	1.00	EACH	CYLINDER, COMPRESSED GAS
SPRAY FOAM	CI12053	DISPOSED	18.00	OUNCE (LIQ)	CAN, METAL
WD-40	CI12044	DISPOSED	1.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI12045	DISPOSED	8.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI12046	DISPOSED	7.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980138	DISPOSED	3.00	OUNCE (LIQ)	CAN, AEROSOL

Location: SW-9

Chemical	Container ID	Status	Quantity	Units	Container Description
ARGON	VI980173	NOT FOUND	1.00	EACH	CYLINDER, COMPRESSED GAS
NAVEL JELLY	VI980151	NOT FOUND	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980152	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980153	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980154	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980155	NOT FOUND	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980156	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980157	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980158	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980159	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980160	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980161	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980162	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980163	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980164	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980165	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980166	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980167	DISPOSED	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980168	NOT FOUND	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980169	NOT FOUND	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NAVEL JELLY	VI980170	NOT FOUND	16.00	OUNCE (LIQ)	BOTTLE, OTHER
NITROGEN	CI12541	NOT FOUND	1.00	EACH	CYLINDER, COMPRESSED GAS
RTV 102	VI980172	NOT FOUND	10.10	OUNCE (LIQ)	TUBE, SQUEEZE
WD-40	VI980171	CONSUMED-	1.00	EACH	CAN, AEROSOL

Location: SW-DOCK 1

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETYLENE	CI970529	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN 96-4	CI961056	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN 96-4	CI961057	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN 96-4	CI971371	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
OIL	CI12633	NOT FOUND	5.00	GALLON	
OXYGEN	CI970530	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972118	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972212	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980050	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS

Location: T-11

Chemical	Container ID	Status	Quantity	Units	Container Description
LEAD COPPER PLATED	RAD06137	EXCESS	20.00	POUND	CAN, METAL
OIL, VACUUM PUMP	CI00992	BULKED	0.50	GALLON	BOTTLE, PLASTIC

Location: T-11B

Chemical	Container ID	Status	Quantity	Units	Container Description
ARGON	CI11224	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS

ARGON	CI11337	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN	CI14581	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
COUNTING GAS 90-10	CI972510	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
COUNTING GAS 90-10	CI972514	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
OIL, DTE	RAD05851	CONSUMED-	5.00	GALLON	BOTTLE, PLASTIC
OIL, DTE	RAD05852	CONSUMED-	5.00	GALLON	BOTTLE, PLASTIC
OIL, DTE	RAD05853	CONSUMED-	5.00	GALLON	BOTTLE, GLASS
OIL, DTE	RAD05854	CONSUMED-	5.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI11289	EXCESS	1.00	GALLON	BOTTLE, PLASTIC
REGIEN GAS 96-4	CI19968	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
REGIEN GAS 96-4	RAD05913	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS

Location: T-11C

Chemical	Container ID	Status	Quantity	Units	Container Description
ADHESIVE	RAD05903	EXCESS	0.50	OUNCE (LIQ)	BOTTLE, GLASS
ADHESIVE	RAD05904	EXCESS	0.50	OUNCE (LIQ)	BOTTLE, GLASS
ADHESIVE	RAD05905	EXCESS	0.50	OUNCE (LIQ)	BOTTLE, GLASS
ADHESIVE	RAD05906	EXCESS	0.50	OUNCE (LIQ)	BOTTLE, GLASS
CLEANER	CI11230	EXCESS	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
CURING AGENT	RAD05910	CONSUMED-	0.10	POUND	BOTTLE, GLASS
CURING AGENT	RAD05911	DISPOSED	0.10	POUND	
DRISLIDE	CI11228	BULKED	8.00	OUNCE (LIQ)	BOTTLE, METAL
DRY LUBE MOLY	RAD05894	DISPOSED	0.00	OUNCE (DRY)	CAN, AEROSOL
DRY LUBE MOLY	RAD05895	DISPOSED	0.00	OUNCE (DRY)	CAN, AEROSOL
DRY LUBE MOLY	RAD05896	DISPOSED	0.00	OUNCE (DRY)	CAN, AEROSOL
EVER GREEN FRAC.	RAD05897	DISPOSED	7.00	OUNCE (LIQ)	CAN, AEROSOL
IRIDIUM	RAD05902	EXCESS	10.00	GRAM	CAN, PLASTIC
LIFT AWAY	CI11232	EXCESS	0.25	GALLON	BOTTLE, PLASTIC
LUBRICANT, ANTI-SEIZE	RAD05907	EXCESS	4.00	OUNCE (LIQ)	TUBE, PLASTIC
MOLECULAR SIEVE	RAD05899	DISPOSED	1.00	POUND	CAN, METAL
MOLECULAR SIEVE	RAD05900	DISPOSED	200.00	GRAM	CAN, METAL
MOLY LUBE	RAD05912	DISPOSED	0.50	OUNCE (LIQ)	CAN, METAL
OIL	CI11240	CONSUMED-	0.13	GALLON	BOTTLE, PLASTIC
OIL	CI11241	BULKED	300.00	MILLILITER	BOTTLE, PLASTIC
OIL, DUO SEAL	CI11231	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI11237	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI11238	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI11239	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
PAINT, SPRAY	RAD05893	CONSUMED-	8.00	OUNCE (LIQ)	CAN, METAL
RESIN TORRSEAL	RAD05901	EXCESS	3.00	OUNCE (LIQ)	TUBE, CAULK GUN
SYLGARD 84	RAD05908	BULKED	1.00	POUND	CAN, METAL
SYLGARD 84	RAD05909	BULKED	0.20	POUND	CAN, METAL
TAP MAGIC	RAD05898	BULKED	2.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-11F

Chemical	Container ID	Status	Quantity	Units	Container Description
OIL, MINERAL	CI11245	CONSUMED	0.00	GALLON	TANK, OTHER

Location: T-15B

Chemical	Container ID	Status	Quantity	Units	Container Description
EMPTY CONTAINER	CI14326	DISPOSED	0.00	EACH	BAG, OTHER
FACTOVOLT 35	CI14335	EXCESS	27.50	GALLON	DRUM, STEEL 55-GAL
FREON 113	CI14331	PROCESS	1.00	EACH	DRUM, STEEL 55-GAL
FREON 12	CI14332	CONSUMED	1.00	EACH	CAN, METAL
FREON 12	CI14333	PROCESS	1.00	EACH	CAN, METAL
GREASE, ANTISEEZ	CI14327	CONSUMED	1.00	LITER	TUBE, SQUEEZE
LEAD SHIELDING	CI14323	CONSUMED	750.00	POUND	BRICK
LUBRICANT, LUBE ALL	CI14341	PROCESS	1.00	OUNCE (LIQ)	TUBE, SQUEEZE
LUBRICANT, LUBE ALL	CI14342	CONSUMED	1.00	OUNCE (DRY)	TUBE, SQUEEZE
NITROGEN	CI14328	CONSUMED	0.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI14329	CONSUMED	0.00	EACH	CYLINDER, COMPRESSED GAS
OIL	CI14337	BULKED	1.00	LITER	BOTTLE, METAL
OIL, REFRIGERANT	CI14336	BULKED	200.00	MILLILITER	CAN, METAL
OIL, TRANSFORMER	CI14334	CONSUMED	55.00	GALLON	DRUM, STEEL 55-GAL
PARRAFIN	CI14322	EXCESS	30.00	GALLON	CAN, METAL

SULFUR HEXAFLUORIDE	CI14338	PROCESS	0.00	EACH	CYLINDER, COMPRESSED GAS

Location: T-16

Chemical	Container ID	Status	Quantity	Units	Container Description
ARGON-HYDROGEN 96-4	CI14385	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
VACUUM PUMP	CI14398	DISPOSED	0.00	EACH	

Location: T-17

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, LABORATORY	CI14362	PROCESS	4.00	GALLON	BOTTLE, PLASTIC
OMIT PLUS	RAD06139	PROCESS	8.00	OUNCE (LIQ)	CAN, AEROSOL
RX FILTER	CI14370	PROCESS	12.00	OUNCE (DRY)	CAN, AEROSOL
RX FILTER	CI14371	PROCESS	12.00	OUNCE (DRY)	CAN, AEROSOL
RX FILTER	CI14372	PROCESS	12.00	OUNCE (DRY)	CAN, AEROSOL
RX FILTER	CI14373	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
RX FILTER	CI14374	PROCESS	12.00	OUNCE (DRY)	CAN, AEROSOL
RX FILTER	CI14375	PROCESS	12.00	OUNCE (DRY)	CAN, AEROSOL
RX FILTER	CI14376	CONSUMED-	12.00	OUNCE (DRY)	CAN, AEROSOL
RX FILTER	CI14377	CONSUMED-	12.00	OUNCE (DRY)	CAN, AEROSOL
RX FILTER	CI14378	PROCESS	12.00	OUNCE (DRY)	CAN, AEROSOL
RX FILTER	CI14379	CONSUMED-	12.00	OUNCE (DRY)	CAN, AEROSOL
RX FILTER	CI14380	PROCESS	12.00	OUNCE (DRY)	CAN, AEROSOL
SILVER GOOP	CI14381	DISPOSED	1.00	OUNCE (DRY)	TUBE, SQUEEZE
STATIC FREE	CI14364	CONSUMED	16.00	OUNCE (LIQ)	CAN, AEROSOL
STATIC FREE	CI14365	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
STATIC FREE	CI14366	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
STATIC FREE	CI14367	CONSUMED	16.00	OUNCE (LIQ)	CAN, AEROSOL
STATIC FREE	CI14368	CONSUMED	16.00	OUNCE (LIQ)	CAN, AEROSOL
STATIC FREE	CI14369	CONSUMED	16.00	OUNCE (LIQ)	CAN, AEROSOL
SULFLO	CI14359	PROCESS	0.13	GALLON	BOTTLE, PLASTIC
WD-40	CI14360	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-17A

Chemical	Container ID	Status	Quantity	Units	Container Description
FLUX	CI14349	CONSUMED-	20.00	GRAM	BOTTLE, PLASTIC
THERMAL COMPOUND	CI14351	CONSUMED-	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC

Location: T-17C

Chemical	Container ID	Status	Quantity	Units	Container Description
SILVER GOOP	CI14358	CONSUMED-	1.00	OUNCE (DRY)	TUBE, SQUEEZE
SILVER PLATING POWDER	CI14355	PROCESS	1.00	POUND	BOTTLE, PLASTIC
SOLDER 40/60	CI14353	CONSUMED-	4.00	POUND	

Location: T-18

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETANILIDE	CI14010	BULKED	3.00	GRAM	BOTTLE, GLASS
ACETONE	CI14266	DISPOSED	0.00	MILLILITER	BOTTLE, GLASS
ACID, BENZOIC	CI14043	BULKED	15.00	GRAM	BOTTLE, GLASS
ACID, BORIC	CI14073	BULKED	500.00	GRAM	BOTTLE, GLASS
ACID, BORIC	CI14290	DISPOSED	17.00	GRAM	BAG, PLASTIC
ACID, NICOTINIC	CI14006	BULKED	5.00	GRAM	BOTTLE, GLASS
ACID, POTASSIUM PHTHALATE 84	CI14047	BULKED	40.00	GRAM	BOTTLE, GLASS
ADHESIVE, PLIOBOND	CI14320	DISPOSED	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
ADHESIVE, PLYBOND	RAD05866	DISPOSED	1.50	OUNCE (LIQ)	TUBE, SQUEEZE
ALCOHOL, ETHYL 190 PROOF	CI14265	DISPOSED	0.00	GALLON	BOTTLE, GLASS
ALUMINUM 2-ETHYLHEXANOATE	CI14011	EXCESS	5.00	GRAM	BOTTLE, GLASS
ALUMINUM DISKS	CI14068	BULKED	5.00	GRAM	BOTTLE, GLASS
ALUMINUM OXIDE	CI14063	EXCESS	8.00	GRAM	BOTTLE, GLASS
ALUMINUM OXIDE	CI14065	BULKED	500.00	GRAM	BOTTLE, GLASS
ALUMINUM OXIDE	CI14066	BULKED	500.00	GRAM	BOTTLE, GLASS
ALUMINUM OXIDE PLUS SODIUM C	CI14305	EXCESS	278.00	GRAM	BOTTLE, GLASS
ALUMINUM PELLETS	CI14029	BULKED	5.00	GRAM	BOTTLE, GLASS
ALUMINUM PELLETS	CI14046	BULKED	5.00	GRAM	BOTTLE, GLASS

ALUMINUM POWDER	CI14067	BULKED	500.00	GRAM	BOTTLE, GLASS
AMMONIUM BICARBONATE	CI14069	BULKED	500.00	GRAM	BOTTLE, GLASS
AMMONIUM CARBONATE	CI14070	BULKED	500.00	GRAM	BOTTLE, GLASS
AMMONIUM CHLORIDE	CI14062	BULKED	1.00	POUND	BOTTLE, GLASS
ANTIMONY	CI14061	BULKED	300.00	GRAM	BOTTLE, GLASS
BARIUM CYCLOHEXANE BUTY	CI14013	EXCESS	5.00	GRAM	BOTTLE, GLASS
BERYLLIUM	CI14008	BULKED	13.00	GRAM	BOTTLE, GLASS
BERYLLIUM	CI14009	BULKED	13.00	GRAM	BOTTLE, GLASS
BERYLLIUM	CI14268	BULKED	10.00	GRAM	BOTTLE, PLASTIC
BERYLLIUM	CI14312	DISPOSED	25.00	GRAM	BOX, CARDBOARD
BIS PHENYL BUTANEDIONO	CI14028	EXCESS	25.00	GRAM	BOTTLE, GLASS
BISMUTH	CI14071	BULKED	50.00	GRAM	BOTTLE, GLASS
BORON	CI14077	EXCESS	500.00	GRAM	BOTTLE, GLASS
BORON	CI14294	BULKED	100.00	GRAM	BAG, PLASTIC
BORON NITRIDE	CI14074	BULKED	100.00	GRAM	BOTTLE, GLASS
BORON OXIDE	CI14307	BULKED	3.00	GRAM	BAG, PLASTIC
BORON POWDER	CI14072	BULKED	100.00	GRAM	BOTTLE, GLASS
BORON POWDER	CI14079	EXCESS	10.00	GRAM	BOTTLE, GLASS
BOVINE LIVER	CI14031	BULKED	50.00	GRAM	BOTTLE, GLASS
CADMIUM CYCKOHEXABUTYR	CI14024	BULKED	2.00	GRAM	BOTTLE, GLASS
CALCIUM 2-ETHYLHEXANOATE	CI14022	EXCESS	2.00	GRAM	BOTTLE, GLASS
CALCIUM CARBONATE	CI14075	EXCESS	500.00	GRAM	BOTTLE, GLASS
CALCIUM FLUORIDE	CI14032	EXCESS	1.00	GRAM	CAN, METAL
CALCIUM FLUORIDE	CI14081	EXCESS	2.00	GRAM	VIAL, GLASS
CALCIUM OXIDE	CI14078	BULKED	500.00	GRAM	BOTTLE, GLASS
CALCIUM SILICATE	CI14295	BULKED	23.00	GRAM	BAG, PLASTIC
CALCIUM SILICIDE	CI14306	BULKED	80.00	GRAM	BAG, PLASTIC
CARBON	CI14303	BULKED	1.00	GRAM	BAG, PLASTIC
CARBON	CI14308	BULKED	1.00	GRAM	BAG, PLASTIC
CEMENT, DUCO	RAD05867	BULKED	1.00	OUNCE (LIQ)	BOTTLE, GLASS
CERIUM	CI14277	BULKED	1.00	GRAM	BAG, PLASTIC
CHLORINE	CI14302	DISPOSED	0.00	GRAM	BOTTLE, GLASS
CLEANER, ALCONOX	CI14260	DISPOSED	0.50	POUND	CAN, CARDBOARD
COBALT II	CI14226	BULKED	100.00	GRAM	BOTTLE, GLASS
COPPER	CI14227	BULKED	400.00	GRAM	BOTTLE, GLASS
COPPER, CHOPPED	CI14299	DISPOSED	50.00	GRAM	BOTTLE, PLASTIC
COPPER, FOIL	CI14035	BULKED	1.00	GRAM	BOTTLE, GLASS
COPPER, METAL DUST	CI14224	BULKED	400.00	GRAM	BOTTLE, GLASS
COPPER, SHOT	CI14298	BULKED	115.00	GRAM	BOTTLE, GLASS
COTTER CONCENTRATE	CI14318	EXCESS	24.50	GRAM	BOTTLE, GLASS
CR SESQUIOXIDE	CI14052	BULKED	20.00	GRAM	BOTTLE, GLASS
CUPRIC OXIDE	CI14220	EXCESS	400.00	GRAM	BOTTLE, GLASS
CUPRIC OXIDE	CI14221	EXCESS	100.00	GRAM	BOTTLE, GLASS
CYSTINE	CI14007	BULKED	3.00	GRAM	BOTTLE, GLASS
DIBUTYLTIN BIS2ETHYLNE	CI14025	BULKED	2.00	GRAM	BOTTLE, GLASS
DYSPROSIUM	CI14284	BULKED	0.05	GRAM	BAG, PLASTIC
EUROPIUM	CI14274	BULKED	1.00	GRAM	BOTTLE, GLASS
FERRIC OXIDE	CI14045	EXCESS	10.00	GRAM	BOTTLE, GLASS
FERRIC PHOSPHATE	CI14222	EXCESS	20.00	GRAM	BOTTLE, GLASS
FLY ASH, COAL	CI14048	BULKED	5.00	GRAM	BOTTLE, GLASS
HOLMIUM	CI14271	BULKED	0.25	GRAM	BOTTLE, GLASS
IRIDIUM 3-95 PLUS	CI14005	BULKED	1.00	GRAM	BOTTLE, GLASS
IRON	CI14059	BULKED	2.00	GRAM	BOTTLE, GLASS
IRON	CI14094	BULKED	450.00	GRAM	BOTTLE, GLASS
IRON, FOIL	CI14034	BULKED	0.50	GRAM	BOTTLE, GLASS
LANTHANUM	CI14275	BULKED	1.00	GRAM	BOTTLE, GLASS
LANTHANUM OXIDE	CI14091	EXCESS	10.00	GRAM	BOTTLE, GLASS
LANTHANUM OXIDE	CI14225	BULKED	500.00	GRAM	BOTTLE, GLASS
LEAD BRICK	CI14311	DISPOSED	200.00	EACH	
LEAD CYCLOHEXANEBUTYRATE	CI14019	BULKED	5.00	GRAM	BOTTLE, GLASS
LEAD PELLETS	CI14223	EXCESS	400.00	GRAM	BOTTLE, GLASS
LEAD SHIELDING	CI14317	DISPOSED	1.00	EACH	TOTE BIN, OTHER
LITHIUM CHLORIDE	CI14088	BULKED	150.00	GRAM	BOTTLE, GLASS
LITHIUM CYCLOHEXANBUTYRAT	CI14020	EXCESS	5.00	GRAM	BOTTLE, GLASS
LITHIUM FLOURIDE	CI14288	BULKED	10.00	GRAM	BAG, PLASTIC
LOCK EASE	CI14262	BULKED	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC
LUTETIUM	CI14272	BULKED	0.01	GRAM	BOTTLE, GLASS
LUTETIUM METAL	CI14089	BULKED	40.00	GRAM	BOTTLE, PLASTIC

LUTETIUM METAL	CI14090	EXCESS	3.00	GRAM	BOTTLE, GLASS
MAGNESIUM CHIPS	CI14087	BULKED	5.00	GRAM	BOTTLE, PLASTIC
MAGNESIUM CYCLODEXANEBUTY	CI14012	BULKED	15.00	GRAM	BOTTLE, GLASS
MAGNESIUM CYCLOHEXANEBUTY	CI14023	EXCESS	2.00	GRAM	BOTTLE, GLASS
MAGNESIUM OXIDE	CI14092	EXCESS	25.00	GRAM	BOTTLE, GLASS
MAGNESIUM TUNGSTATE	CI14093	BULKED	450.00	GRAM	BOTTLE, GLASS
MANGANESE DIOXIDE	CI14057	EXCESS	10.00	GRAM	BOTTLE, GLASS
MENTHYL BORATE	CI14021	BULKED	2.00	GRAM	BOTTLE, GLASS
MERCURY CYCLOHEXANONE BU	CI14014	BULKED	1.00	GRAM	BOTTLE, GLASS
MISC METAL GRP	CI14286	DISPOSED	0.00		BOTTLE, PLASTIC
MISC METAL GRP	CI14319	DISPOSED	1.00	EACH	TOTE BIN, OTHER
MOLYBDENUM METAL	CI14058	BULKED	2.00	GRAM	BOTTLE, GLASS
NEODYMIUM	CI14279	BULKED	0.50	GRAM	VIAL, GLASS
NEODYMIUM SO4	CI14086	BULKED	2.00	GRAM	BOTTLE, GLASS
NEUTRON ACTIVATION STANDARD	CI14291	DISPOSED	0.00	EACH	BAG, PLASTIC
NEUTRON ACTIVATION STANDARD	CI14313	DISPOSED	0.00	GRAM	TOTE BIN, OTHER
NEUTRON ACTIVATION STANDARD	CI14314	DISPOSED	0.00	GRAM	TOTE BIN, OTHER
NEUTRON ACTIVATION STANDARD	CI14315	DISPOSED	0.00	GRAM	TOTE BIN, OTHER
NEUTRON ACTIVATION STANDARD	CI14316	DISPOSED	50.00	EACH	TOTE BIN, OTHER
NICKEL OXIDE	CI14270	BULKED	14.00	GRAM	BAG, PLASTIC
NICKEL OXIDE	CI14281	BULKED	20.00	GRAM	BAG, PLASTIC
NICKEL SHOT	CI14083	BULKED	10.00	GRAM	BOTTLE, GLASS
NICKEL SULFATE	CI14084	NOT FOUND	450.00	GRAM	BOTTLE, GLASS
NICKELOUS CHLORIDE	CI14082	BULKED	450.00	GRAM	BOTTLE, GLASS
OCTAPHENYL CYCLOTETRA	CI14027	EXCESS	2.00	GRAM	BOTTLE, GLASS
OIL, LO-17	CI14263	BULKED	2.00	OUNCE (LIQ)	BOTTLE, METAL
ORCHARD LEAVES	CI14042	EXCESS	1.00	GRAM	BOTTLE, GLASS
PALLADIUM	CI14280	DISPOSED	70.00	GRAM	BAG, PLASTIC
PALLADIUM	CI14282	DISPOSED	60.00	GRAM	BAG, PLASTIC
PALLADIUM	CI14283	DISPOSED	60.00	GRAM	BAG, PLASTIC
PALLADIUM	CI14301	DISPOSED	1.00	GRAM	BOTTLE, GLASS
PALLADIUM POWDER	CI14267	BULKED	325.00	GRAM	BOTTLE, PLASTIC
PALLADIUM POWDER	CI14273	DISPOSED	0.00	GRAM	VIAL, GLASS
PALLADIUM POWDER	CI14304	BULKED	60.00	EACH	BAG, PLASTIC
PHENOLIC RESIN	CI14289	BULKED	13.00	GRAM	BAG, PLASTIC
PHOSPHATE, MONSANTO	CI14293	BULKED	94.00	GRAM	BOTTLE, GLASS
POTASSIUM IODATE	CI14003	BULKED	15.00	GRAM	BOTTLE, GLASS
POTASSIUM NITRATE	CI14085	BULKED	300.00	GRAM	BOTTLE, GLASS
PRASEODYMIUM	CI14269	BULKED	0.50	GRAM	BOTTLE, GLASS
RUBIDIUM CARBONATE	CI14254	EXCESS	1.00	GRAM	BOTTLE, GLASS
RUBIDIUM CARBONATE	CI14257	EXCESS	2.00	GRAM	BOTTLE, GLASS
RUBIDIUM NITRATE	CI14258	BULKED	10.00	GRAM	BOTTLE, GLASS
RUBIDIUM NITRATE	CI14259	BULKED	10.00	GRAM	BOTTLE, GLASS
SAMD STD OTTAWA	CI14248	EXCESS	50.00	GRAM	BOTTLE, GLASS
SCANDIUM	CI14255	BULKED	20.00	GRAM	BOTTLE, GLASS
SCANDIUM	CI14285	BULKED	0.01	GRAM	VIAL, GLASS
SCOURING POWDER	CI14261	EXCESS	12.00	OUNCE (DRY)	CAN, CARDBOARD
SELENIUM METAL	CI14256	BULKED	20.00	GRAM	BOTTLE, GLASS
SI WAFER FRAGMTS	CI14041	BULKED	2.00	GRAM	BOTTLE, GLASS
SILICA SAND	CI14309	BULKED	1.00	GRAM	BAG, PLASTIC
SILICON	CI14033	EXCESS	1.00	GRAM	CAN, METAL
SILICON OXIDE	CI14249	EXCESS	15.00	GRAM	BOTTLE, GLASS
SILVER 2-ETHYLHEXANOATE	CI14015	BULKED	5.00	GRAM	BOTTLE, GLASS
SILVER METAL	CI14095	EXCESS	50.00	GRAM	BOTTLE, GLASS
SILVER, GRANULAR	CI14064	BULKED	30.00	GRAM	BOTTLE, GLASS
SODIUM BICARBONATE	CI14244	BULKED	400.00	GRAM	BOTTLE, GLASS
SODIUM BISULFITE	CI14253	BULKED	400.00	GRAM	BOTTLE, GLASS
SODIUM BORATE	CI14251	BULKED	454.00	GRAM	BOTTLE, GLASS
SODIUM CARBONATE	CI14250	BULKED	400.00	GRAM	BOTTLE, GLASS
SODIUM CHLORIDE	CI14004	EXCESS	4.00	GRAM	BOTTLE, GLASS
SODIUM CHLORIDE	CI14246	BULKED	400.00	GRAM	BOTTLE, GLASS
SODIUM CYCLOHEXANE	CI14001	BULKED	10.00	GRAM	BOTTLE, GLASS
SODIUM FLOURIDE	CI14310	BULKED	32.00	GRAM	BAG, PLASTIC
SODIUM NITRATE	CI14247	BULKED	400.00	GRAM	BOTTLE, GLASS
SODIUM OXALATE	CI14050	BULKED	30.00	GRAM	BOTTLE, GLASS
SODIUM PHOSPHATE	CI14245	BULKED	400.00	GRAM	BOTTLE, GLASS
SODIUM SILICATE	CI14252	BULKED	454.00	GRAM	BOTTLE, GLASS
SODIUM SULFATE	CI14243	BULKED	450.00	GRAM	BOTTLE, GLASS

SPECTROSCOPIC POWDER	CI14080	BULKED	200.00	GRAM	BOTTLE, GLASS
STAINLESS STEEL O2	CI14036	BULKED	1.00	GRAM	BOTTLE, GLASS
STAINLESS STEEL O2	CI14037	BULKED	5.00	GRAM	TUBE, CARDBOARD
STEEL	CI14039	BULKED	100.00	GRAM	BOTTLE, GLASS
STEEL	CI14040	BULKED	2.00	GRAM	BOTTLE, GLASS
STEEL	CI14300	BULKED	244.00	GRAM	BAG, PLASTIC
STRONTIUM CARBONATE	CI14051	BULKED	50.00	GRAM	BOTTLE, GLASS
STRONTIUM CYCLOHEXANEB	CI14030	BULKED	5.00	GRAM	BOTTLE, GLASS
SUCROSE	CI14049	BULKED	50.00	GRAM	BOTTLE, GLASS
TANTALUM CARBIDE	CI14238	EXCESS	10.00	GRAM	BOTTLE, GLASS
TELLURIUM METAL	CI14239	BULKED	1.00	GRAM	BOTTLE, GLASS
TELLURIUM METAL	CI14241	EXCESS	5.00	GRAM	BOTTLE, GLASS
TELLURIUM SHOT	CI14054	BULKED	25.00	GRAM	BOTTLE, GLASS
TELLURIUM SHOT	CI14055	BULKED	25.00	GRAM	BOTTLE, GLASS
THULIUM	CI14240	NOT FOUND	100.00	GRAM	BOTTLE, GLASS
THULIUM	CI14278	BULKED	9.00	GRAM	BAG, PLASTIC
THULIUM	CI14296	BULKED	7.00	GRAM	BAG, PLASTIC
TIN POWDER -325MESH	CI14242	BULKED	3.00	POUND	BOTTLE, GLASS
TIN SHOT	CI14053	BULKED	10.00	GRAM	BOTTLE, GLASS
TIN SHOT	CI14056	BULKED	25.00	GRAM	BOTTLE, GLASS
TITANIUM	CI14232	EXCESS	1.00	GRAM	VIAL, GLASS
TITANIUM ALLOY	CI14236	BULKED	1.00	GRAM	BOTTLE, GLASS
TITANIUM BORON	CI14292	BULKED	60.00	GRAM	BAG, PLASTIC
TITANIUM DIOXIDE	CI14237	BULKED	5.00	GRAM	BOTTLE, GLASS
TITANIUM OXIDE	CI14002	EXCESS	100.00	GRAM	BOTTLE, GLASS
TITANIUM OXIDE	CI14060	BULKED	2.00	GRAM	BOTTLE, GLASS
TITANIUM UNALLOYED O2	CI14038	BULKED	20.00	GRAM	BOTTLE, GLASS
TRIBENZYLAMINE	CI14228	BULKED	100.00	GRAM	BOTTLE, GLASS
TRIPHENYL PHOSPHATE	CI14016	BULKED	1.00	GRAM	BOTTLE, GLASS
TRISPHENYLBUTANCRIII	CI14017	BULKED	1.00	GRAM	BAG, OTHER
TRISPHENYLBUTANCRIII	CI14018	EXCESS	3.00	GRAM	BOTTLE, GLASS
URANIUM AND/OR THORIUM	CI14287	EXCESS	25.00	GRAM	BAG, PLASTIC
URANIUM TETRAFLUORIDE UF4, D	CI14234	EXCESS	1.00	GRAM	BOTTLE, GLASS
VANADIUM METAL	CI14233	BULKED	10.00	GRAM	BOTTLE, GLASS
VASOLINE	CI14264	BULKED	1.25	OUNCE (DRY)	BOTTLE, PLASTIC
YTTRIUM	CI14235	BULKED	10.00	GRAM	BOTTLE, GLASS
YTTRIUM	CI14276	BULKED	45.00	GRAM	BAG, PLASTIC
ZINC METAL	CI14230	BULKED	400.00	GRAM	BOTTLE, GLASS
ZINC METAL DUST	CI14229	BULKED	100.00	GRAM	BOTTLE, GLASS
ZIRCONIUM OXIDE	CI14231	BULKED	400.00	GRAM	BOTTLE, GLASS
ZN CYCLOHEXANEBUTERATE	CI14026	EXCESS	2.00	GRAM	BOTTLE, GLASS

Location: T-19

Chemical	Container ID	Status	Quantity	Units	Container Description
INK, RED	RAD05940	DISPOSED	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC

Location: T-19B

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, MARKER BOARD	CI14345	PROCESS	16.00	OUNCE (LIQ)	BOTTLE, PLASTIC
CLEANER, WINDOW	CI14347	PROCESS	16.00	OUNCE (LIQ)	BOTTLE, PLASTIC

Location: T-20

Chemical	Container ID	Status	Quantity	Units	Container Description
ADHESIVE	CI14407	CONSUMED-	13.50	OUNCE (LIQ)	BOTTLE, METAL
ANTI STATIC SPRAY	CI14406	DISPOSED	14.00	OUNCE (LIQ)	CAN, AEROSOL
LEAK TEC	RAD06144	EXCESS	3.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI14399	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI14410	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI14411	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI14412	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI14413	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI14414	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI14415	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI14416	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI14417	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC

OIL, VACUUM PUMP	RAD06143	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
PASTE, RUBY FLUID FLUX	RAD06140	EXCESS	20.00	OUNCE (LIQ)	BOTTLE, PLASTIC
POWDER, DESENEX	RAD06141	CONSUMED	2.00	OUNCE (DRY)	BOTTLE, METAL
SOLDER 40/60	RAD06142	CONSUMED	20.00	OUNCE (DRY)	ROLL
SUSPEND OIL	CI14402	BULKED	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
SUSPEND OIL	CI14403	BULKED	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
SUSPEND OIL	CI14404	EXCESS	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
SUSPEND OIL	CI14405	CONSUMED	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC

Location: T-214

Chemical	Container ID	Status	Quantity	Units	Container Description
DYE PENETRANT, DP52	CI19843	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
DYE PENETRANT, DP52	CI19844	DISPOSED	3.00	GALLON	BOTTLE, PLASTIC
DYE PENETRANT, DP52	CI19845	DISPOSED	3.00	GALLON	CAN, METAL
DYE PENETRANT, DP52	CI19946	DISPOSED	3.00	GALLON	CAN, METAL

Location: T-215

Chemical	Container ID	Status	Quantity	Units	Container Description
ADHESIVE CAULK	RAD02537	DISPOSED	8.00	OUNCE (DRY)	TUBE, CARDBOARD
ADHESIVE SEALANT	RAD02541	CONSUMED	2.00	OUNCE (DRY)	BOTTLE, PLASTIC
ALCOHOL, ETHYL	CI19842	DISPOSED	1.00	GALLON	CAN, METAL
APIEZON GREASE	RAD02533	CONSUMED	1.00	OUNCE (DRY)	TUBE, SQUEEZE
APIEZON GREASE	RAD02542	CONSUMED	1.00	OUNCE (DRY)	TUBE, SQUEEZE
ARGON	CI19853	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON	CI19854	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
CEMENT, PIPE	RAD02543	CONSUMED	2.00	OUNCE (DRY)	TUBE, SQUEEZE
CLAY SEALANT	CI17591	DISPOSED	2.00	POUND	TUBE, CARDBOARD
CLEANER	RAD02531	DISPOSED	5.00	OUNCE (LIQ)	BOTTLE, PLASTIC
DEVELOPER	CI19939	DISPOSED	5.00	OUNCE (LIQ)	CAN, AEROSOL
DEVELOPER	CI19940	DISPOSED	5.00	OUNCE (LIQ)	CAN, AEROSOL
DEVELOPER	CI19941	DISPOSED	5.00	GRAM	CAN, AEROSOL
DYE PENETRANT, FLUORESCENT H	CI19947	DISPOSED	3.00	GALLON	TANK, OTHER
FLOURINATED GREASE	RAD02545	DISPOSED	0.00	OUNCE (DRY)	TUBE, SQUEEZE
FLOURINATED GREASE	RAD02546	DISPOSED	2.00	OUNCE (DRY)	TUBE, SQUEEZE
HELIUM	CI19850	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
HELIUM	CI960668	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
MAGNAFLUX, PENETRANT, SKL-	RAD02530	DISPOSED	10.00	OUNCE (LIQ)	CAN, AEROSOL
MAGNAFLUX, SPOTCHECK CLEA	RAD02529	DISPOSED	5.00	OUNCE (LIQ)	CAN, AEROSOL
PENETRANT	VI980094	DISPOSED	0.25	GALLON	CAN, METAL
RTV SILICONE RUBBER	RAD02539	DISPOSED	3.00	OUNCE (DRY)	TUBE, SQUEEZE
SEALANT, PIPE	RAD02536	DISPOSED	25.00	MILLILITER	TUBE, SQUEEZE
SPOT CHECK PENETRANT	CI19942	DISPOSED	7.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI19848	CONSUMED	5.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-215C

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETONE	CI19905	DISPOSED	1.00	GALLON	BOTTLE, GLASS
ACETONE	CI19910	DISPOSED	0.75	GALLON	CAN, METAL
ALCOHOL, ETHYL	CI19898	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
ALCOHOL, ETHYL	CI19899	CONSUMED	0.75	GALLON	BOTTLE, PLASTIC
ALCOHOL, ETHYL	CI19908	DISPOSED	0.25	GALLON	CAN, METAL
ALCOHOL, ETHYL	RAD02561	DISPOSED	0.25	GALLON	CAN, METAL
ALCOHOL, ISOPROPYL	CI19887	CONSUMED	4.00	LITER	BOTTLE, GLASS
ALCOHOL, ISOPROPYL	CI19888	DISPOSED	3.75	LITER	BOTTLE, GLASS
ALCOHOL, ISOPROPYL	CI19891	PROCESS	4.00	LITER	BOTTLE, GLASS
ALCOHOL, ISOPROPYL	CI19892	CONSUMED	4.00	LITER	BOTTLE, GLASS
ALCOHOL, ISOPROPYL	CI19893	PROCESS	4.00	LITER	BOTTLE, GLASS
ALCOHOL, ISOPROPYL	CI19894	PROCESS	4.00	LITER	BOTTLE, GLASS
ALCOHOL, ISOPROPYL	CI19895	DISPOSED	3.50	LITER	BOTTLE, GLASS
ALCOHOL, ISOPROPYL	CI19896	PROCESS	4.00	LITER	BOTTLE, GLASS
DEVELOPER STARTER	RAD02548	DISPOSED	0.50	GALLON	BOTTLE, PLASTIC
DEVELOPER STARTER	RAD02549	CONSUMED	0.50	GALLON	BOTTLE, PLASTIC
DEVELOPER STARTER	RAD02550	DISPOSED	0.50	GALLON	BOTTLE, PLASTIC
DEVELOPER SYSTEM CLEANER CO	RAD02554	CONSUMED	0.50	GALLON	BOTTLE, PLASTIC
DEVELOPER SYSTEM CLEANER CO	RAD02556	CONSUMED	0.50	GALLON	BOTTLE, PLASTIC

FIXER SYSTEM CLEANER	RAD02551	CONSUMED	0.50	GALLON	BOTTLE, PLASTIC
FIXER SYSTEM CLEANER	RAD02552	DISPOSED	0.50	GALLON	BOTTLE, PLASTIC
FIXER SYSTEM CLEANER	RAD02553	CONSUMED	0.50	GALLON	BOTTLE, PLASTIC
METHYLENE CHLORIDE	CI19900	DISPOSED	1.00	GALLON	BOTTLE, GLASS
METHYLENE CHLORIDE	CI19901	DISPOSED	0.75	GALLON	BOTTLE, GLASS
METHYLENE CHLORIDE	CI19902	DISPOSED	0.00	GALLON	BOTTLE, GLASS
METHYLENE CHLORIDE	CI19903	DISPOSED	3.00	GALLON	CAN, METAL
OIL	CI19883	DISPOSED	0.25	GALLON	BOTTLE, PLASTIC
OIL, PUMP	CI19949	PROCESS	10.00	OUNCE (LIQ)	BOTTLE, PLASTIC
POWDER, SCOURING	RAD02555	DISPOSED	14.00	OUNCE (DRY)	TUBE, CARDBOARD
POWDER, SCOURING	RAD02557	DISPOSED	14.00	OUNCE (DRY)	TUBE, CARDBOARD
POWDER, SCOURING	RAD02558	DISPOSED	14.00	OUNCE (DRY)	TUBE, CARDBOARD
POWDER, SCOURING	RAD02559	DISPOSED	14.00	OUNCE (DRY)	TUBE, CARDBOARD
SOFT N TENDER HAND LOTION	RAD02560	DISPOSED	64.00	OUNCE (LIQ)	BOTTLE, PLASTIC
SPRAY COATING	CI19907	CONSUMED	10.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI19911	DISPOSED	1.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-218

Chemical	Container ID	Status	Quantity	Units	Container Description
CEMENT, RUBBER	RAD02611	DISPOSED	0.50	OUNCE (LIQ)	
DETERGENT, ALCONOX	RAD02612	DISPOSED	3.00	POUND	BOX, CARDBOARD
SCOURING POWDER	RAD02613	DISPOSED	14.00	OUNCE (DRY)	CAN, CARDBOARD

Location: T-22

Chemical	Container ID	Status	Quantity	Units	Container Description
CADMIUM	RAD06204	CONSUMED	10.00	POUND	BRICK
CADMIUM	RAD06205	CONSUMED	10.00	POUND	BRICK
CADMIUM	RAD06207	PROCESS	10.00	POUND	
CLEANER, GLASS	RAD06199	EXCESS	0.50	GALLON	BOTTLE, PLASTIC
CLEANER, MAGNETIC HEAD	RAD06197	DISPOSED	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC
CLEANER, MAGNETIC HEAD	RAD06202	CONSUMED	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
CLEANER, RALLY	RAD06203	PROCESS	0.25	GALLON	BOTTLE, PLASTIC
DISINFECTANT	RAD06200	PROCESS	14.00	OUNCE (LIQ)	CAN, AEROSOL
DISINFECTANT	RAD06201	DISPOSED	8.00	OUNCE (LIQ)	CAN, AEROSOL
FREEZE MIST	RAD06193	DISPOSED	2.00	OUNCE (LIQ)	CAN, AEROSOL
FREEZE MIST	RAD06195	DISPOSED	0.00	OUNCE (LIQ)	CAN, AEROSOL
FREEZE MIST	RAD06196	DISPOSED	1.00	OUNCE (LIQ)	CAN, AEROSOL
GP FORWARD CLEANER	RAD06198	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
LEAD BRICK	RAD06208	PROCESS	500.00	POUND	BRICK
LEAD SHEETS	RAD06206	CONSUMED	15.00	POUND	BRICK
SILVER NITRATE	RAD06194	BULKED	0.05	OUNCE (LIQ)	BOTTLE, GLASS
WD-40	RAD06191	CONSUMED-	1.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	RAD06192	CONSUMED-	7.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-221

Chemical	Container ID	Status	Quantity	Units	Container Description
ALUMINUM OXIDE	RAD02633	DISPOSED	4.00	POUND	BOTTLE, PLASTIC
CHARCOAL, COCONUT	RAD02635	DISPOSED	50.00	GRAM	BOTTLE, GLASS
CLEANER, MAGNETIC HEAD	VI980099	DISPOSED	0.00	OUNCE (LIQ)	CAN, AEROSOL
HYDROGEN-AIR	RAD02630	DISPOSED	0.10	LITER	CYLINDER, COMPRESSED GAS
HYDROGEN-AIR (2.5-87.5)	RAD02631	DISPOSED	300.00	LITER	CYLINDER, COMPRESSED GAS
PALLADIUM ON ALUMINA	RAD02634	DISPOSED	51.00	GRAM	BOTTLE, PLASTIC
PROPANE IN AIR (.569%) 1810-0164	VI980098	DISPOSED	300.00	LITER	CYLINDER, COMPRESSED GAS
PROPANE IN AIR (1.03%) 1810-0172	VI980097	DISPOSED	300.00	LITER	CYLINDER, COMPRESSED GAS
SILICON CARBIDE	RAD02632	DISPOSED	5.00	POUND	BOTTLE, PLASTIC
SILICONE OIL	VI980001	CONSUMED-	50.00	MILLILITER	BOTTLE, PLASTIC
SILICONE OIL	VI980002	DISPOSED	50.00	MILLILITER	BOTTLE, PLASTIC

Location: T-223

Chemical	Container ID	Status	Quantity	Units	Container Description
ADHESIVE CEMENT	RAD02650	DISPOSED	2.00	OUNCE (DRY)	TUBE, SQUEEZE
AIR	RAD02651	DISPOSED	12.00	OUNCE (LIQ)	CAN, AEROSOL
ALCOHOL, ETHYL	RAD02649	DISPOSED	25.00	MILLILITER	BOTTLE, PLASTIC
ALUMINUM SHOT	RAD02636	DISPOSED	10.00	POUND	BOTTLE, PLASTIC

ALUMINUM SHOT	RAD02637	DISPOSED	8.00	POUND	BUCKET, CARDBOARD
ALUMINUM SHOT	RAD02638	DISPOSED	10.00	POUND	BUCKET, CARDBOARD
ALUMINUM SHOT	RAD02639	DISPOSED	8.00	POUND	BUCKET, CARDBOARD
ALUMINUM SHOT	RAD02642	DISPOSED	0.50	POUND	BUCKET, CARDBOARD
COPPER LEAD SHOT, BUCKET 1	RAD02640	DISPOSED	3.00	POUND	BUCKET, CARDBOARD
COPPER WIRE	RAD02647	DISPOSED	5.00	POUND	ROLL
COPPER WIRE	RAD02648	DISPOSED	15.00	POUND	ROLL
LEAD COPPER SHOT	RAD02644	DISPOSED	0.50	POUND	BOTTLE, PLASTIC
LEAD COPPER SHOT	RAD02645	DISPOSED	10.00	POUND	CAN, METAL
LEAD COPPER SHOT	RAD02646	DISPOSED	20.00	POUND	CAN, METAL
LEAD COPPER SHOT, BUCKET 2	RAD02643	DISPOSED	4.00	POUND	BUCKET, CARDBOARD
OMIT PLUS LINT AND DUST REMOV	CI00993	CONSUMED-	8.00	OUNCE (LIQ)	CAN, AEROSOL
SAND, BUCKET 7	RAD02641	DISPOSED	3.00	POUND	BUCKET, CARDBOARD
SILICONE RUBBER SEALANT	RAD02652	DISPOSED	3.00	OUNCE (DRY)	TUBE, SQUEEZE

Location: T-227B

Chemical	Container ID	Status	Quantity	Units	Container Description
COPPER SHOT	RAD02663	EXCESS	3.00	POUND	CAN, METAL
CUTTING FLUID	RAD02656	BULKED	5.00	OUNCE (LIQ)	CAN, METAL
LEAD BRICK	RAD02653	CONSUMED	625.00	POUND	BRICK
PHOSPHORUS PENTOXIDE	RAD02654	EXCESS	0.50	POUND	BOTTLE, GLASS
PHOSPHORUS PENTOXIDE	RAD02655	EXCESS	0.50	POUND	BOTTLE, GLASS
SILCA SHOT	RAD02662	BULKED	0.25	POUND	BOTTLE, PLASTIC
SOLDER PASTE	RAD02657	DISPOSED	8.00	OUNCE (DRY)	CAN, METAL

Location: T-229

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, GAGE BLOCK	RAD02660	DISPOSED	0.50	OUNCE (LIQ)	CAN, AEROSOL
LEAD BRICK	RAD02658	DISPOSED	725.00	POUND	BRICK
LEAD CYCLINDER	RAD02659	DISPOSED	150.00	POUND	TANK, PROCESS EQUIPMENT

Location: T-230

Chemical	Container ID	Status	Quantity	Units	Container Description
LEAD BRICK	RAD02661	PROCESS	750.00	POUND	BRICK

Location: T-243

Chemical	Container ID	Status	Quantity	Units	Container Description
ARGON-HYDROGEN 96-4	CI970520	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN 96-4	CI970521	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN 96-4	CI970522	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN 96-4	CI970523	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
REFRIGERANT	CI972765	CONSUMED-	0.00	POUND	CYLINDER, COMPRESSED GAS
REFRIGERANT	CI972766	CONSUMED-	30.00	POUND	CYLINDER, COMPRESSED GAS
REFRIGERANT	CI972767	CONSUMED-	30.00	POUND	CYLINDER, COMPRESSED GAS
REFRIGERANT	CI972768	CONSUMED-	30.00	POUND	CYLINDER, COMPRESSED GAS
REFRIGERANT	CI972769	CONSUMED-	30.00	POUND	CYLINDER, COMPRESSED GAS

Location: T-244

Chemical	Container ID	Status	Quantity	Units	Container Description
PAINT	RAD02605	DISPOSED	1.00	GALLON	CAN, METAL

Location: T-245C

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, ENDUST	VI980195	CONSUMED-	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
CLEANER, ENDUST	VI980198	CONSUMED-	0.00	OUNCE (LIQ)	BOTTLE, PLASTIC
CLEANER, ENDUST	VI980199	CONSUMED-	10.00	OUNCE (LIQ)	CAN, AEROSOL
TERMINAL CLEANER	CI15391	CONSUMED-	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
WD-40	CI20164	PROCESS	2.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-25

Chemical	Container ID	Status	Quantity	Units	Container Description

LEAD & CADMIUM	RAD06211	CONSUMED	10.00	POUND	BRICK

Location: T-252

Chemical	Container ID	Status	Quantity	Units	Container Description
ACRYLIC LACQUER	RAD02667	DISPOSED	3.00	OUNCE (LIQ)	CAN, AEROSOL
ACRYLIC LACQUER	RAD02668	DISPOSED	3.00	OUNCE (LIQ)	CAN, AEROSOL
ADHESIVE CEMENT	RAD02669	DISPOSED	2.00	OUNCE (DRY)	TUBE, SQUEEZE
ALUMINUM SHOT	RAD02670	DISPOSED	3.00	POUND	CAN, METAL
NICKEL CADIUM BATTERY	RAD02671	DISPOSED	1.00	EACH	BOX, PLASTIC

Location: T-253

Chemical	Container ID	Status	Quantity	Units	Container Description
ANTI STATIC SPRAY	CI07080	DISPOSED	3.00	OUNCE (LIQ)	CAN, AEROSOL
FURNITURE POLISH	CI07086	DISPOSED	10.00	OUNCE (LIQ)	CAN, AEROSOL
LUBRICANT, NO. X64D DRY	CI07084	DISPOSED	8.00	OUNCE (DRY)	CAN, AEROSOL

Location: T-254

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, DEGREASER	VI980088	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
CLEANER, MAGNETIC HEAD	VI980087	PROCESS	16.00	OUNCE (LIQ)	CAN, AEROSOL
FREON TMC SOLVENT FLUX REMO	CI17483	PROCESS	16.00	OUNCE (LIQ)	CAN, AEROSOL
FREON TMC SOLVENT FLUX REMO	RAD02666	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
TECH DUSTER	CI17481	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
TECH DUSTER	CI17491	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
TECH DUSTER	CI17492	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
TECH DUSTER	CI17493	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-259

Chemical	Container ID	Status	Quantity	Units	Container Description
CEMENT, CONTACT	RAD02623	CONSUMED-	5.00	OUNCE (LIQ)	CAN, METAL
FLUX, STAY CLEAN	CI07108	PROCESS	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
FLUX, STAY SILVER	CI17071	PROCESS	2.00	OUNCE (DRY)	BOTTLE, PLASTIC
FLUX, STAY SILVER	RAD02626	PROCESS	12.00	OUNCE (LIQ)	BOTTLE, PLASTIC
LUBRICANT, POLYWATER A	RAD02625	PROCESS	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
MILLER COOLANT	WM006050	PROCESS	16.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OIL, CUTTING	CI07102	PROCESS	14.00	OUNCE (LIQ)	CAN, AEROSOL
OIL, CUTTING	CI07107	PROCESS	5.00	OUNCE (LIQ)	CAN, AEROSOL
PRIMER, PVC	RAD02622	CONSUMED-	8.00	OUNCE (LIQ)	CAN, METAL
PROPANE FUEL	CI07100	PROCESS	14.00	OUNCE (LIQ)	CAN, METAL
RTV SILICONE SEALANT	RAD02629	CONSUMED-	1.00	OUNCE (DRY)	TUBE, SQUEEZE
SILICONE RUBBER	VI980090	CONSUMED	2.80	OUNCE (LIQ)	TUBE, PLASTIC
WD-40	VI980091	CONSUMED-	2.00	OUNCE (LIQ)	CAN, AEROSOL
ZYNOLYTE GLASS FROSTING	RAD02624	CONSUMED-	8.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-259A

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETONE	CI19904	DISPOSED	80.00	MILLILITER	BOTTLE, GLASS
ADHESIVE, SPRAY	WM003865	CONSUMED	12.00	OUNCE (LIQ)	CAN, AEROSOL
ALCOHOL, ISOPROPYL	VI980086	CONSUMED-	175.00	MILLILITER	BOTTLE, PLASTIC
CUTTING FLUID	CI17500	CONSUMED-	1.00	OUNCE (LIQ)	CAN, METAL
OIL, PENETRATING	RAD02664	CONSUMED-	0.00	OUNCE (LIQ)	CAN, METAL
ROSIN SOLVENT	VI980085	CONSUMED-	2.00	OUNCE (LIQ)	VIAL, GLASS
WD-40	CI14125	CONSUMED-	2.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-26

Chemical	Container ID	Status	Quantity	Units	Container Description
CADMIUM	RAD06210	CONSUMED	8.00	POUND	
LEAD CAST	RAD06209	PROCESS	300.00	POUND	

Location: T-260

Chemical	Container ID	Status	Quantity	Units	Container Description

ARGON	CI07096	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
HELIUM	CI970264	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
OIL, 3 IN 1	RAD02540	PROCESS	3.00	OUNCE (LIQ)	CAN, METAL
OIL, PUMP	VI980095	DISPOSED	0.50	GALLON	BOTTLE, PLASTIC
OIL, USED PUMP	VI980096	DISPOSED	0.75	LITER	BOTTLE, PLASTIC
SILICONE DIELECTRIC COMPOUND	RAD02547	CONSUMED-	0.00	OUNCE (DRY)	TUBE, SQUEEZE

Location: T-266

Chemical	Container ID	Status	Quantity	Units	Container Description
ALUMINUM OXIDE	CI02221	PROCESS	200.00	GRAM	BOTTLE, GLASS
ALUMINUM OXIDE	CI02222	PROCESS	75.00	GRAM	BOTTLE, GLASS
ALUMINUM OXIDE	CI02227	PROCESS	100.00	GRAM	CAN, METAL
ALUMINUM POWDER	RAD02704	PROCESS	2.00	KILOGRAM	BOTTLE, PLASTIC
BAH2	CI02225	PROCESS	1875.00	GRAM	BOTTLE, GLASS
FE TI, T-83338	CI02204	PROCESS	1.00	KILOGRAM	CAN, METAL
FLUROINERT	CI02209	PROCESS	0.00	GALLON	BOTTLE, PLASTIC
FLUROINERT	CI02210	PROCESS	0.13	GALLON	BOTTLE, PLASTIC
INLAND 19 OIL	RAD02709	CONSUMED-	0.00	GALLON	BOTTLE, PLASTIC
LANI4.7AL.3	CI02205	PROCESS	5.00	KILOGRAM	CAN, METAL
LANI5, T-86299	CI02206	PROCESS	1.00	KILOGRAM	CAN, METAL
LUBRICANT, POLYWATER J	RAD02700	PROCESS	0.13	GALLON	BOTTLE, PLASTIC
MAGNESIUM	CI02219	PROCESS	500.00	GRAM	BOTTLE, PLASTIC
MOLECULAR SIEVE 13X	RAD02701	PROCESS	3.00	POUND	CAN, METAL
MOLECULAR SIEVE 13X	RAD02702	PROCESS	6.00	POUND	CAN, METAL
MOLECULAR SIEVE 13X	RAD02703	PROCESS	6.00	POUND	CAN, METAL
NICKEL POWDER	CI02226	PROCESS	200.00	GRAM	CAN, METAL
NICKEL POWDER	CI02228	PROCESS	1.50	KILOGRAM	BOTTLE, PLASTIC
NICKEL, ALUMINA, URANIUM, PD	RAD02706	PROCESS	300.00	GRAM	CAN, METAL
OIL, VACUUM PUMP	WM000156	CONSUMED-	4.00	OUNCE (LIQ)	BOTTLE, GLASS
PALLADIUM ON ALUMINA	CI02220	PROCESS	10.00	GRAM	BOTTLE, GLASS
PALLADIUM ON ALUMINA	RAD02706	PROCESS	100.00	GRAM	BOTTLE, PLASTIC
PALLADIUM-RHODIUM ALLOY	CI02224	PROCESS	30.00	OUNCE (DRY)	BOTTLE, PLASTIC
RHENIUM POWDER	RAD02705	PROCESS	100.00	GRAM	BOTTLE, GLASS
TRITIATED WASTE PUMP OIL	RAD02707	PROCESS	10.00	GALLON	CAN, METAL
TRITIATED WASTE VANE PUMP OI	RAD02708	PROCESS	3.00	GALLON	CAN, METAL
VANADIUM POWDER	CI02223	PROCESS	25.00	GRAM	BOTTLE, GLASS

Location: T-270

Chemical	Container ID	Status	Quantity	Units	Container Description
P-10 GAS	CI501337	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI501339	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI501340	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI501342	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI962641	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI962677	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI962777	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI962779	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972122	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972123	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972203	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972204	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972205	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972213	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972214	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972513	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI972980	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980007	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980008	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980009	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980657	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980658	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980659	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980660	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980661	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980662	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980663	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS

P-10 GAS	CI980664	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980665	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980666	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
ULTIMA GOLD	CI970176	CONSUMED-	0.00	LITER	
ULTIMA GOLD	CI970177	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970178	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970179	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970180	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970181	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970182	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970183	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970184	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970185	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970186	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970187	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970188	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970189	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970190	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI970191	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI971749	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI971750	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI971751	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI971752	CONSUMED-	5.00	LITER	
ULTIMA GOLD	CI972525	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI972526	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI972527	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI972528	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI972529	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI972530	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI972531	CONSUMED-	0.00	LITER	BOTTLE, GLASS
ULTIMA GOLD	CI972532	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI973017	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI973018	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI973019	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI973020	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI973021	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI973022	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI973023	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI973024	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980242	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980243	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980244	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980245	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980246	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980247	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980248	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980249	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980250	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980251	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980252	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	CI980253	CONSUMED-	5.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	VI980580	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	VI980581	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	VI980582	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
ULTIMA GOLD	VI980583	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
WD-40	VI980584	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980585	PROCESS	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980586	PROCESS	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980587	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980588	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980589	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980590	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980591	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980592	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980593	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980594	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980595	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980596	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL

WD-40	VI980597	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-277

Chemical	Container ID	Status	Quantity	Units	Container Description
ACRYLIC SPRAY COATING	RAD02619	DISPOSED	3.00	OUNCE (LIQ)	CAN, AEROSOL
ARGON	CI980631	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
ARGON	CI980632	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
DISINFECTANT DEODORANT	RAD02620	CONSUMED	6.00	OUNCE (LIQ)	CAN, AEROSOL
ELECTROLYTE	RAD02618	DISPOSED	5.00	OUNCE (LIQ)	BOTTLE, PLASTIC
ELECTROLYTE	RAD02677	DISPOSED	12.00	OUNCE (LIQ)	BOTTLE, PLASTIC
HELIUM	CI980633	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
HELIUM	CI980634	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
HELIUM	CI980635	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
HELIUM	CI980636	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
HELIUM	CI980637	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
HELIUM	CI980638	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
MR-778	RAD02621	CONSUMED	3.00	OUNCE (LIQ)	CAN, AEROSOL
STATIC SPRAY REFILL	RAD02678	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
STATIC SPRAY REFILL	RAD02679	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC

Location: T-277A

Chemical	Container ID	Status	Quantity	Units	Container Description
PAINT, ENAMEL	2600001501	CONSUMED-	1.00	OUNCE (LIQ)	CAN, AEROSOL
SILICONE SPRAY	RAD02674	CONSUMED-	13.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	RAD02675	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-277D

Chemical	Container ID	Status	Quantity	Units	Container Description
LEAK TEC	RAD02672	CONSUMED-	10.00	OUNCE (LIQ)	CAN, AEROSOL
LEAK TEC	RAD02673	CONSUMED-	10.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-277J

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, MARKER BOARD	RAD02676	CONSUMED-	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC

Location: T-277L

Chemical	Container ID	Status	Quantity	Units	Container Description
FLUORESCENSE	RAD02615	CONSUMED-	4.00	OUNCE (LIQ)	BOTTLE, GLASS
MAGIC BARREL	RAD02616	CONSUMED-	40.00	GRAM	BOTTLE, GLASS
STATIC FREE	RAD02617	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	RAD02614	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-2W

Chemical	Container ID	Status	Quantity	Units	Container Description
ACID, POTASSIUM PHTHALATE	CI17059	PROCESS	10.00	OUNCE (LIQ)	BOTTLE, GLASS
ACID, POTASSIUM PHTHALATE, 84	RAD02681	PROCESS	0.70	POUND	TUBE, CARDBOARD
ACID, POTASSIUM PHTHALATE, 84	RAD02682	PROCESS	0.70	POUND	TUBE, CARDBOARD
ACID, POTASSIUM PHTHALATE, 84	RAD02683	PROCESS	0.70	POUND	TUBE, CARDBOARD
CLEANER, STAINLESS STEEL	CI17052	PROCESS	18.00	OUNCE (LIQ)	CAN, AEROSOL
CONDUCTIVITY STANDARD	RAD02684	PROCESS	10.00	OUNCE (LIQ)	BOTTLE, GLASS
CONDUCTIVITY STANDARD	RAD02685	PROCESS	10.00	OUNCE (LIQ)	BOTTLE, GLASS
GAS LEAK DETECTOR	CI17032	PROCESS	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GAS LEAK DETECTOR	CI17033	CONSUMED-	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GAS LEAK DETECTOR	CI17034	PROCESS	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GAS LEAK DETECTOR	CI17035	CONSUMED-	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GAS LEAK DETECTOR	CI17037	PROCESS	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GAS LEAK DETECTOR	CI17038	CONSUMED-	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GAS LEAK DETECTOR	CI17039	CONSUMED-	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GAS LEAK DETECTOR	CI17040	CONSUMED-	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GAS LEAK DETECTOR	CI17042	CONSUMED-	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC
LEAK DETECTOR	CI17053	CONSUMED-	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OIL, 3 IN 1	CI17050	PROCESS	8.00	OUNCE (LIQ)	CAN, METAL

OIL, PUMP	CI17074	PROCESS	43.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OIL, PUMP	RAD02686	CONSUMED-	1.00	GALLON	BOTTLE, GLASS

Location: T-302C

Chemical	Container ID	Status	Quantity	Units	Container Description
ELECTRONIC PROTECTIVE COATI	CI14126	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-303

Chemical	Container ID	Status	Quantity	Units	Container Description
GREASE B GONE	RAD02565	CONSUMED-	0.50	GALLON	BOTTLE, PLASTIC

Location: T-307

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETONE	RAD02513	DISPOSED	0.75	GALLON	BOTTLE, GLASS
ACETONE	RAD02514	BULKED	100.00	MILLILITER	BOTTLE, GLASS
ACID, OXALIC, DIHYDRATE	CI14112	BULKED	12.00	POUND	BOTTLE, GLASS
ACID, PHOSPHORIC	WM005269	EXCESS	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
ACRYLIC SPRAY COATING	WM005213A	EXCESS	4.00	OUNCE (LIQ)	CAN, AEROSOL
ACRYLIC SPRAY COATING, KRYLO	WM005214	CONSUMED-	5.00	OUNCE (LIQ)	CAN, AEROSOL
ACTIVATOR 472	RAD02509	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
ADHESIVE & SEALING COMPOUND	WM005256	DISPOSED	1.75	OUNCE (DRY)	TUBE, SQUEEZE
ADHESIVE CEMENT	CI14096	BULKED	16.00	OUNCE (LIQ)	CAN, METAL
ADHESIVE CEMENT	CI14097	EXCESS	32.00	OUNCE (LIQ)	CAN, METAL
ALCOHOL, ETHYL	CI960398	CONSUMED	0.50	GALLON	BOTTLE, PLASTIC
ALCOHOL, ETHYL	WM005271	DISPOSED	100.00	MILLILITER	BOTTLE, PLASTIC
ALCOHOL, ETHYL	WM005273	DISPOSED	200.00	MILLILITER	BOTTLE, PLASTIC
ALCOHOL, ISOPROPYL	RAD02504	BULKED	250.00	MILLILITER	BOTTLE, GLASS
ALUMINUM OXIDE 99871	CI14108	EXCESS	1.00	KILOGRAM	BOTTLE, GLASS
APIEZON GREASE	WM005244	EXCESS	50.00	GRAM	TUBE, SQUEEZE
APIEZON GREASE	WM005245	EXCESS	1.00	OUNCE (DRY)	TUBE, SQUEEZE
APIEZON GREASE	WM005246	EXCESS	50.00	GRAM	TUBE, SQUEEZE
APIEZON GREASE	WM005247	EXCESS	1.00	OUNCE (DRY)	TUBE, SQUEEZE
APIEZON GREASE	WM005248	EXCESS	1.00	OUNCE (DRY)	TUBE, SQUEEZE
APIEZON GREASE	WM005254	EXCESS	1.00	OUNCE (DRY)	TUBE, SQUEEZE
APIEZON GREASE	WM005255	EXCESS	1.00	OUNCE (DRY)	TUBE, SQUEEZE
ARGON	WM005281	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON	WM005282	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
CARBON DIOXIDE	CI13325	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
CLEAN-UP SOLVENT	WM005260	BULKED	0.25	OUNCE (LIQ)	BOTTLE, PLASTIC
CLEAN-UP SOLVENT	WM005261	BULKED	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
CLEAN-UP SOLVENT	WM005262	BULKED	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
CP METHANE	WM005205	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
DATAKOAT PROTECTIVE COATING	WM005219	BULKED	0.50	OUNCE (LIQ)	BOTTLE, GLASS
DATAKOAT THINNER	WM005220	BULKED	1.00	OUNCE (LIQ)	BOTTLE, GLASS
DEFOAMER 1400, 100% ACTIVE IN	CI14110	DISPOSED	1.00	POUND	CAN, METAL
DEFOAMER 1500, 100% ACTIVE FO	CI14109	DISPOSED	1.00	POUND	BOTTLE, GLASS
DETERGENT, GENERAL PURPOSE	RAD02521	EXCESS	3.00	POUND	TUBE, CARDBOARD
DISINFECTANT DEODORANT	WM005230	PROCESS	7.00	OUNCE (LIQ)	CAN, AEROSOL
DRIERITE	RAD02502	CONSUMED	10.00	POUND	BOTTLE, GLASS
DRIERITE	RAD02505	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005294	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005295	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005296	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005297	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005298	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005299	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005300	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005301	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005302	PROCESS	1.00	POUND	BOTTLE, GLASS
DRIERITE	WM005303	CONSUMED	1.00	POUND	BOTTLE, GLASS
DUCO CEMENT	RAD02527	CONSUMED	1.50	OUNCE (DRY)	TUBE, SQUEEZE
ETHYL ACETATE	RAD02515	BULKED	200.00	MILLILITER	BOTTLE, GLASS
ETHYLENE GLYCOL	WM005240	DISPOSED	250.00	MILLILITER	BOTTLE, GLASS
ETHYLENE GLYCOL	WM005304	DISPOSED	300.00	MILLILITER	BOTTLE, GLASS
ETHYLENE GLYCOL	WM005305	CONSUMED	500.00	MILLILITER	BOTTLE, GLASS

ETHYLENE GLYCOL	WM005307	PROCESS	500.00	MILLILITER	BOTTLE, GLASS
ETHYLENE GLYCOL	WM005308	CONSUMED	500.00	MILLILITER	BOTTLE, GLASS
FLUORO GLIDE, LUBRICANT	WM005231	DISPOSED	4.00	OUNCE (DRY)	CAN, AEROSOL
FLUORO GLIDE, LUBRICANT	WM005232	DISPOSED	4.00	OUNCE (DRY)	CAN, AEROSOL
FREON TMC SOLVENT FLUX REMO	WM005234	DISPOSED	10.00	OUNCE (LIQ)	CAN, AEROSOL
FREON TMC SOLVENT FLUX REMO	WM005235	DISPOSED	16.00	OUNCE (LIQ)	CAN, AEROSOL
FREON TMC SOLVENT FLUX REMO	WM005236	DISPOSED	16.00	OUNCE (LIQ)	CAN, AEROSOL
FREON TMC SOLVENT FLUX REMO	WM005237	DISPOSED	16.00	OUNCE (LIQ)	CAN, AEROSOL
FREON TMC SOLVENT FLUX REMO	WM005238	DISPOSED	16.00	OUNCE (LIQ)	CAN, AEROSOL
GAS LEAK DETECTOR	WM005215	EXCESS	3.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GLUE, SUPER	WM005267	DISPOSED	2.00	OUNCE (DRY)	TUBE, SQUEEZE
GLUE, SUPER	WM005268	DISPOSED	2.00	OUNCE (DRY)	TUBE, SQUEEZE
GLYCOL, T2 CONTAMINATED	WM005275	DISPOSED	0.00	OUNCE (LIQ)	BOTTLE, PLASTIC
HYDROGEN	CI14118	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
HYDROGEN	WM005206	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
LEAK SEALANT	WM005251	BULKED	1.00	OUNCE (LIQ)	BOTTLE, GLASS
LINDE MOLECULAR SIEVES	RAD02503	BULKED	25.00	POUND	CAN, METAL
LOCTITE SEALANT	WM005249	EXCESS	1.00	OUNCE (DRY)	TUBE, SQUEEZE
MOLECULAR SIEVE	RAD02517	BULKED	4.00	POUND	BOTTLE, GLASS
NITROGEN	CI14117	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
OIL, 3 IN 1	RAD02524	PROCESS	3.00	OUNCE (LIQ)	CAN, METAL
OIL, 3 IN 1	WM005223	BULKED	3.00	OUNCE (LIQ)	CAN, METAL
OIL, 3 IN 1	WM005224	BULKED	2.00	OUNCE (LIQ)	CAN, METAL
OIL, DIFFUSION PUMP	RAD02516	BULKED	100.00	MILLILITER	BOTTLE, GLASS
OIL, LO-17	WM005222	BULKED	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OIL, USED PUMP	CI14113	EXCESS	1000.00	MILLILITER	BOTTLE, PLASTIC
OIL, USED PUMP	CI14114	BULKED	1000.00	MILLILITER	BOTTLE, PLASTIC
OIL, USED PUMP	CI14115	BULKED	750.00	MILLILITER	BOTTLE, PLASTIC
OIL, VACUUM PUMP	WM005250	BULKED	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC
PALLADIUM	CI14107	CONSUMED-	1.00	POUND	BOTTLE, PLASTIC
PALLADIUM CONCENTRATE	RAD02506	EXCESS	0.13	GALLON	BOTTLE, PLASTIC
PALLADIUM CONCENTRATE	RAD02510	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
PALLADIUM CONCENTRATE	RAD02520	EXCESS	1.00	GALLON	BOTTLE, PLASTIC
PALLADIUM POWDER	CI14105	EXCESS	2.00	OUNCE (DRY)	BOTTLE, PLASTIC
PENNY-BRITE	RAD02518	EXCESS	1.00	OUNCE (LIQ)	BOTTLE, GLASS
POLISH, MET-ALL ALUMINUM	WM005217	EXCESS	2.00	OUNCE (DRY)	TUBE, SQUEEZE
REDUCER, FIRST CHOICE	RAD02511	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
REDUCER, FIRST CHOICE	RAD02512	EXCESS	0.05	GALLON	BOTTLE, PLASTIC
REDUCER, FIRST CHOICE	RAD02519	EXCESS	1.00	GALLON	BOTTLE, PLASTIC
SELF-LEVELING ADHESIVE SEALAN	WM005242	EXCESS	10.30	OUNCE (LIQ)	BOTTLE, PLASTIC
SENSITIZER 471	RAD02507	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
SENSITIZER 471	RAD02508	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
SILVER GOOP	WM005216	DISPOSED	1.00	OUNCE (DRY)	TUBE, SQUEEZE
SLIC TITE PASTE WITH TEFLON	RAD02523	PROCESS	4.00	OUNCE (DRY)	CAN, METAL
SLIC-TITE PASTE WITH TEFLON	WM005218	EXCESS	7.00	OUNCE (DRY)	CAN, METAL
STOPCOCK GREASE, SILICONE LUB	WM005252	BULKED	1.00	OUNCE (DRY)	TUBE, SQUEEZE
TORR SEAL BASE RESIN	RAD02526	EXCESS	2.00	OUNCE (DRY)	TUBE, SQUEEZE
TORR SEAL HARDENER	WM005226	EXCESS	1.00	OUNCE (DRY)	TUBE, SQUEEZE
TORR SEAL HARDENER	WM005258	EXCESS	2.00	OUNCE (DRY)	TUBE, SQUEEZE
TORR SEAL HARDENER	WM005259	EXCESS	1.00	OUNCE (DRY)	TUBE, SQUEEZE
UNKNOWN	RAD02522	CONSUMED	0.13	POUND	BOTTLE, GLASS
WATER	CI14116	PROCESS	1000.00	MILLILITER	BOTTLE, GLASS
WATERPROOFING SOLUTION	WM005263	NOT FOUND	0.50	OUNCE (LIQ)	BOTTLE, PLASTIC
WATERPROOFING SOLUTION	WM005265	EXCESS	0.50	OUNCE (LIQ)	BOTTLE, PLASTIC
WATERPROOFING SOLUTION	WM005266	NOT FOUND	0.50	OUNCE (LIQ)	BOTTLE, PLASTIC
WD-40	WM005221	PROCESS	3.00	OUNCE (LIQ)	CAN, AEROSOL
ZINC	WM005264	DISPOSED	0.00	GRAM	BOTTLE, GLASS

Location: T-310

Chemical	Container ID	Status	Quantity	Units	Container Description
DOW CORNING 200 FLUID	RAD02628	PROCESS	25.00	POUND	CAN, METAL

Location: T-313

Chemical	Container ID	Status	Quantity	Units	Container Description
JOHNSON WAX	RAD02566	CONSUMED	12.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-315

Chemical	Container ID	Status	Quantity	Units	Container Description
DETERGENT, LIQUI-NOX	RAD02569	CONSUMED	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
TILE AND CHROME CLEANER	RAD02570	CONSUMED	0.19	GALLON	BOTTLE, PLASTIC

Location: T-319

Chemical	Container ID	Status	Quantity	Units	Container Description
GREASE, HIGH VACUUM	RAD02581	PROCESS	5.00	OUNCE (DRY)	TUBE, SQUEEZE
OIL, 3 IN 1	RAD02577	PROCESS	1.00	OUNCE (LIQ)	CAN, METAL
PETROLEUM JELLY	RAD02580	PROCESS	1.00	OUNCE (LIQ)	CAN, PLASTIC
SILICONE RUBBER ADHESIVE SEAL	RAD02576	PROCESS	10.00	OUNCE (DRY)	TUBE, SQUEEZE
TONER, SF-730NT1	RAD02582	PROCESS	260.00	GRAM	BOTTLE, PLASTIC
TONER, SF-730NT1	RAD02583	PROCESS	260.00	GRAM	BOTTLE, PLASTIC
TONER, SF-730NT1	RAD02584	PROCESS	260.00	GRAM	BOTTLE, PLASTIC
TONER, SF-730NT1	RAD02585	PROCESS	260.00	GRAM	BOTTLE, PLASTIC
TONER, SF-730NT1	RAD02586	PROCESS	260.00	GRAM	BOTTLE, PLASTIC
TONER, SF-730NT1	RAD02587	PROCESS	200.00	GRAM	BOTTLE, PLASTIC
TONER, SF-730NT1	RAD02588	PROCESS	200.00	GRAM	BOTTLE, PLASTIC

Location: T-323

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETONE	CI14169	CONSUMED-	0.00	GALLON	BOTTLE, GLASS
ACETONE	CI19988	PROCESS	1.00	OUNCE (LIQ)	BOTTLE, GLASS
ADHESIVE	CI14173	PROCESS	17.00	OUNCE (LIQ)	CAN, AEROSOL
CLEAN SURF	CI14174	PROCESS	11.00	OUNCE (LIQ)	CAN, AEROSOL
CLEAN SURF	CI14176	PROCESS	11.00	OUNCE (LIQ)	CAN, AEROSOL
EPOXY CEMENT	CI14156	PROCESS	24.00	OUNCE (LIQ)	TUBE, SQUEEZE
FOAM SEALANT	VI980100	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
INK, TOOL MAKERS	CI14166	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
LAYOUT DYE	CI14170	PROCESS	10.00	OUNCE (LIQ)	CAN, AEROSOL
LIQUID WRENCH	CI14183	CONSUMED-	4.00	OUNCE (LIQ)	CAN, AEROSOL
LUBRICANT, ANTI-SEIZE	CI14184	PROCESS	10.00	OUNCE (LIQ)	TUBE, SQUEEZE
OIL, 3 IN 1	CI14180	CONSUMED	3.00	OUNCE (LIQ)	CAN, METAL
OIL, CUTTING	CI14171	PROCESS	14.00	OUNCE (LIQ)	CAN, AEROSOL
OIL, CUTTING	CI14172	PROCESS	14.00	OUNCE (LIQ)	CAN, AEROSOL
OIL, PENETRATING	CI14181	PROCESS	4.00	OUNCE (LIQ)	CAN, AEROSOL
OIL, PENETRATING	CI14182	PROCESS	4.00	OUNCE (LIQ)	CAN, AEROSOL
PAINT, SPRAY	CI14202	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
SOLDER PASTE	CI14154	PROCESS	8.00	OUNCE (LIQ)	CAN, METAL
SOLDER PASTE	CI14155	PROCESS	8.00	OUNCE (LIQ)	CAN, METAL
SPEED BOND 312	CI14164	PROCESS	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
WD-40	CI14185	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-346

Chemical	Container ID	Status	Quantity	Units	Container Description
OIL, GEAR	RAD02746	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
POLYPHYENOL ETHER 210	RAD02747	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
POLYPHYENOL ETHER 210	RAD02748	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
POLYPHYENOL ETHER OS124	RAD02744	PROCESS	1.00	GALLON	CAN, METAL
POLYPHYENOL ETHER OS124	RAD02745	PROCESS	1.00	GALLON	CAN, METAL

Location: T-36A

Chemical	Container ID	Status	Quantity	Units	Container Description
OIL	CI14419	DISPOSED	5.00	GALLON	CAN, METAL

Location: T-37

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, LABORATORY	CI14426	PROCESS	2.00	GALLON	BOTTLE, PLASTIC
CLEANER, ODOR BANE CARPET	RAD06148	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
CLEANER, ODOR BANE CARPET	RAD06149	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
DRY LUBE MOLY	RAD06146	PROCESS	16.00	OUNCE (LIQ)	CAN, AEROSOL

GREASE B GONE	RAD06150	PROCESS	1.00	GALLON	BOTTLE, GLASS
LEAD SHEETS	VI980081	PROCESS	10.10	OUNCE (DRY)	TUBE, PLASTIC
OIL, 3 IN 1	CI14423	PROCESS	3.00	OUNCE (LIQ)	CAN, METAL
OIL, PUMP	CI14428	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
OMIT PLUS	RAD06147	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	RAD06145	PROCESS	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	WM006312	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	WM6309	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	WM6311	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	WM6314	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WET GRAPHITE FILM	CI11262	PROCESS	10.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-40

Chemical	Container ID	Status	Quantity	Units	Container Description
CEMENT, RUBBER	RAD06158	CONSUMED-	4.00	OUNCE (LIQ)	BOTTLE, GLASS
CEMENT, RUBBER	RAD06159	PROCESS	4.00	OUNCE (LIQ)	BOTTLE, GLASS
CEMENT, RUBBER	RAD06160	CONSUMED-	4.00	OUNCE (LIQ)	BOTTLE, GLASS
OIL, PHONE	RAD06161	CONSUMED-	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC

Location: T-43

Chemical	Container ID	Status	Quantity	Units	Container Description
OIL, BURR BLUE	RAD06162	EXCESS	100.00	MILLILITER	BOTTLE, GLASS

Location: T-48

Chemical	Container ID	Status	Quantity	Units	Container Description
ARGON	CI14488	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
CYCLOHEXANE	CI00978	CONSUMED	0.00	GRAM	BOTTLE, GLASS
LOCTITE	RAD06082	CONSUMED-	1.69	OUNCE (DRY)	TUBE, PLASTIC
POLYPHENYL ETHER	RAD06151	PROCESS	0.00	GALLON	BOTTLE, PLASTIC

Location: T-49

Chemical	Container ID	Status	Quantity	Units	Container Description
PH NINE	RAD06152	PROCESS	5.00	POUND	BOTTLE, PLASTIC
PH NINE	RAD06153	PROCESS	5.00	POUND	BOTTLE, PLASTIC
RTV	VI980067	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC

Location: T-50

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, CONQUEST	CI14495	CONSUMED	1.00	GALLON	BOTTLE, PLASTIC
PAINT	CI11269	DISPOSED	11.00	OUNCE (LIQ)	CAN, AEROSOL
PAINT	CI14496	DISPOSED	0.00	OUNCE (LIQ)	CAN, AEROSOL
RTV	VI980055	PROCESS	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV 100	VI980051	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV 100	VI980052	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV 100	VI980053	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV 100	VI980054	PROCESS	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980056	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980057	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980058	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980059	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980060	PROCESS	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980061	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980062	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980063	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980064	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980065	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC
RTV100	VI980066	CONSUMED-	10.10	OUNCE (LIQ)	TUBE, PLASTIC

Location: T-57

Chemical	Container ID	Status	Quantity	Units	Container Description
4 RING PPE 210	RAD06183	CONSUMED	0.25	GALLON	BOTTLE, PLASTIC
GASKET MASTER	RAD06190	CONSUMED-	2.00	OUNCE (DRY)	TUBE, SQUEEZE

GASKET PRIMER	RAD06189	CONSUMED-	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GREASE, HIGH VACUUM	RAD06186	CONSUMED	4.00	OUNCE (LIQ)	BOTTLE, PLASTIC
LEAK DETECTOR	RAD06185	DISPOSED	6.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OIL, LB400X	RAD06170	PROCESS	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06171	BULKED	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06172	PROCESS	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06173	PROCESS	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06174	BULKED	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06175	PROCESS	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06176	PROCESS	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06177	PROCESS	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06178	PROCESS	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06179	PROCESS	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06180	BULKED	1.00	GALLON	CAN, METAL
OIL, LB400X	RAD06181	PROCESS	1.00	GALLON	CAN, METAL
OIL, USED LB400X	RAD06166	CONSUMED	3.00	GALLON	RESERVOIR, OIL
OIL, USED LB400X	RAD06167	CONSUMED	3.00	GALLON	RESERVOIR, OIL
OIL, USED LB400X	RAD06168	CONSUMED	3.00	GALLON	RESERVOIR, OIL
OIL, USED LB400X	RAD06169	CONSUMED	3.00	GALLON	RESERVOIR, OIL
OIL, VACUUM PUMP	RAD06184	PROCESS	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OS-124 PLOYPHENYL	RAD60182	DISPOSED	1.00	GALLON	CAN, METAL
PST PIPE SEALANT	RAD06187	CONSUMED-	2.00	OUNCE (DRY)	TUBE, SQUEEZE
RC601	RAD06188	CONSUMED-	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC

Location: T-59

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, DEGREASER	CI14504	CONSUMED	1.00	LITER	BOTTLE, PLASTIC
CLEANER, GLASS	CI14500	CONSUMED-	16.00	OUNCE (LIQ)	BOTTLE, GLASS
FREON	CI14502	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
FURNITURE POLISH	CI14510	CONSUMED	0.00	OUNCE (LIQ)	CAN, AEROSOL
LIQUID WRENCH	CI14512	CONSUMED-	0.00	OUNCE (LIQ)	CAN, METAL
OIL, PUMP	CI14503	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OMIT PLUS	CI14511	CONSUMED	8.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	VI980068	CONSUMED	9.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-61

Chemical	Container ID	Status	Quantity	Units	Container Description
ARGON-HYDROGEN 96-4	CI14610	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN 96-4	CI14611	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
CEMENT	CI14599	CONSUMED-	2.00	OUNCE (LIQ)	CAN, METAL
HELIUM	CI14613	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
NEON	CI14614	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI14616	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
SAMPLE CYLINDERS	CI14600	CONSUMED-	1.00	EACH	BOTTLE, METAL
SAMPLE CYLINDERS	CI14601	CONSUMED-	1.00	EACH	BOTTLE, METAL
SAMPLE CYLINDERS	CI14602	CONSUMED-	1.00	EACH	BOTTLE, METAL
SAMPLE CYLINDERS	CI14603	CONSUMED-	1.00	EACH	BOTTLE, METAL
SAMPLE CYLINDERS	CI14604	CONSUMED-	1.00	EACH	BOTTLE, METAL
SAMPLE CYLINDERS	CI14605	CONSUMED-	1.00	EACH	BOTTLE, METAL
SAMPLE CYLINDERS	CI14606	CONSUMED-	1.00	EACH	BOTTLE, METAL

Location: T-63

Chemical	Container ID	Status	Quantity	Units	Container Description
CLEANER, GLASS	CI14590	CONSUMED-	0.50	GALLON	BOTTLE, PLASTIC
NITROGEN	CI14591	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
NOS	CI14588	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
NOS	CI14589	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
OXYGEN-NITROGEN	CI14596	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS

Location: T-76

Chemical	Container ID	Status	Quantity	Units	Container Description
ARGON-HYDROGEN 96-4	CI14582	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN 96-4	CI907513	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
ARGON-HYDROGEN 96-4	CI907522	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS

ARGON-HYDROGEN 96-4	CI907523	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS

Location: T-77

Chemical	Container ID	Status	Quantity	Units	Container Description
DETERGENT, DISH WASHING SOAP	RAD06077	CONSUMED-	12.00	OUNCE (LIQ)	BOTTLE, PLASTIC

Location: T-78

Chemical	Container ID	Status	Quantity	Units	Container Description
CEMENT PART A	CI11154	PROCESS	3.00	POUND	CAN, METAL
CEMENT PART B	CI11155	PROCESS	3.00	POUND	CAN, METAL
CHALK, MARKING	CI08002	CONSUMED-	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
CONDITIONER, PAINT	CI11165	PROCESS	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11188	CONSUMED-	1.00	LITER	BOTTLE, PLASTIC
GLUE, FAST-TACK	CI11138	PROCESS	17.00	OUNCE (LIQ)	BOTTLE, METAL
GREASE	CI11185	CONSUMED-	5.00	GALLON	BOTTLE, METAL
GREASE, LUBRAK	CI11176	CONSUMED-	1.00	LITER	CAN, CARDBOARD
GREASE, LUBRAK	CI11177	PROCESS	1.00	LITER	CAN, CARDBOARD
LACQUER THINNER	CI11143	CONSUMED-	1.00	GALLON	CAN, METAL
LACQUER THINNER	CI11151	CONSUMED-	1.00	GALLON	CAN, METAL
LIQUID WRENCH	CI08013	CONSUMED-	4.00	OUNCE (LIQ)	BOTTLE, METAL
MINERAL SPIRITS	CI066664	CONSUMED-	1.00	GALLON	CAN, METAL
OATLEY CLEANER	CI11069	PROCESS	32.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OIL, 3 IN 1	CI08008	CONSUMED-	3.00	OUNCE (LIQ)	BOTTLE, METAL
OIL, 3 IN 1	CI08009	PROCESS	3.00	OUNCE (LIQ)	BOTTLE, METAL
OIL, PUMP SEAL	CI08068	CONSUMED-	0.00	LITER	BOTTLE, PLASTIC
PAINT	RAD05753	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05775	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05783	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05785	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05786	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05788	CONSUMED-	1.00	GALLON	CAN, METAL
PAINT	RAD05789	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05790	CONSUMED-	1.00	GALLON	CAN, METAL
PAINT	RAD05791	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05794	PROCESS	1.00	GALLON	CAN, METAL
PAINT, ENAMEL	CI11156	PROCESS	0.13	GALLON	CAN, METAL
PAINT, PRIMER	CI11166	PROCESS	3.00	GALLON	CAN, METAL
PASTE, RUBY FLUID FLUX	RAD05843	PROCESS	8.00	OUNCE (DRY)	BOTTLE, PLASTIC
PST PIPE SEALANT	RAD05944	CONSUMED-	1.69	OUNCE (LIQ)	TUBE, PLASTIC
SIL-FLUX	CI08007	CONSUMED-	1.00	POUND	BOTTLE, PLASTIC
SLIC TITE	RAD05943	CONSUMED-	8.00	OUNCE (LIQ)	CAN, METAL
SOLDER 95/5	RAD05857	CONSUMED	1.00	POUND	
SOLDER PASTE	CI14216	PROCESS	8.00	OUNCE (DRY)	BOTTLE, PLASTIC
SPATTER PROOF	CI11066	PROCESS	13.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAY TAP HB-I	CI08067	PROCESS	4.00	OUNCE (LIQ)	CAN, METAL
SPRAYGRIP CHESTERTRON	CI11042	PROCESS	0.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-78A

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETYLENE	CI08034	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
ACETYLENE	CI97103	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
ANTI SEIZE C102	RAD05920	CONSUMED-	9.00	OUNCE (LIQ)	BOTTLE, PLASTIC
ANTI SEIZE C102	RAD05937	CONSUMED-	9.00	OUNCE (LIQ)	BOTTLE, PLASTIC
ANTI SEIZE C5-A	RAD05919	CONSUMED-	1.00	POUND	BOTTLE, PLASTIC
ANTI SEIZE C5-A	RAD05935	CONSUMED-	1.00	POUND	BOTTLE, PLASTIC
ANTI SEIZE C5-A	RAD05936	PROCESS	1.00	POUND	BOTTLE, PLASTIC
CHALK, BLUE	CI14206	CONSUMED-	8.00	OUNCE (DRY)	BOTTLE, PLASTIC
CHALK, BLUE	CI14207	CONSUMED-	8.00	OUNCE (DRY)	BOTTLE, PLASTIC
CHALK, BLUE	CI14211	CONSUMED-	8.00	OUNCE (DRY)	BOTTLE, PLASTIC
CLEANER, DEGREASER	CI11145	PROCESS	8.00	OUNCE (LIQ)	CAN, AEROSOL
DUCT SEALER #102	RAD05921	PROCESS	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05924	PROCESS	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05925	CONSUMED-	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05926	CONSUMED-	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05927	PROCESS	5.00	POUND	BOX, CARDBOARD

DUCT SEALER #102	RAD05928	PROCESS	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05929	CONSUMED-	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05930	PROCESS	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05931	CONSUMED-	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05932	PROCESS	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05933	CONSUMED-	5.00	POUND	BOX, CARDBOARD
DUCT SEALER #102	RAD05934	CONSUMED-	5.00	POUND	BOX, CARDBOARD
FORM A GASKET SEALANT	CI11063	PROCESS	11.00	OUNCE (DRY)	TUBE, SQUEEZE
FURNITURE POLISH	CI19030	CONSUMED-	17.00	OUNCE (LIQ)	CAN, AEROSOL
INK, TOOL MAKERS	CI11065	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
INK, TOOL MAKERS	CI19001	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
INK, TOOL MAKERS	CI19002	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
INK, TOOL MAKERS	CI19003	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
INK, TOOL MAKERS	CI19004	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
INK, TOOL MAKERS	CI19005	CONSUMED-	12.00	OUNCE (LIQ)	CAN, METAL
INK, TOOL MAKERS	CI19006	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
INK, TOOL MAKERS	CI19007	CONSUMED-	12.00	OUNCE (LIQ)	CAN, AEROSOL
INK, TOOL MAKERS	CI19033	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
KRYLON	CI19016	CONSUMED-	12.00	OUNCE (LIQ)	CAN, AEROSOL
LUBRICANT, ANTI-SEIZE	CI19018	PROCESS	1.00	POUND	CAN, METAL
LUBRICANT, ANTI-SIEZE	CI14209	CONSUMED-	16.00	OUNCE (LIQ)	BOTTLE, METAL
OXYGEN	CI14195	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
OXYGEN	CI950448	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
OXYGEN	CI97104	CONSUMED-	0.25	GALLON	CYLINDER, COMPRESSED GAS
SEAMFIL	RAD05922	PROCESS	3.00	OUNCE (LIQ)	TUBE, SQUEEZE
SPRAY TAP	CI11079	CONSUMED-	8.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAY TAP	CI11081	PROCESS	8.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAY TAP	CI14189	CONSUMED	8.00	OUNCE (LIQ)	BOTTLE, METAL
TRICHLOROETHANE	C11125	CONSUMED	12.00	OUNCE (LIQ)	CAN, AEROSOL
TRICHLOROETHANE	CI11125	CONSUMED-	454.00	GRAM	CAN, AEROSOL
TRICHLOROETHANE	CI11126	CONSUMED-	454.00	GRAM	CAN, AEROSOL

Location: T-78B

Chemical	Container ID	Status	Quantity	Units	Container Description
HELIUM	CI19040	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
HELIUM	CI19041	PROCESS	0.00	EACH	CYLINDER, COMPRESSED GAS

Location: T-79

Chemical	Container ID	Status	Quantity	Units	Container Description
ALCOHOL, ETHYL	CI14346	CONSUMED-	0.20	LITER	BOTTLE, PLASTIC
BUFFER SOLUTION	RAD05955	CONSUMED-	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
BUFFER SOLUTION	RAD05956	CONSUMED-	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
BUFFER SOLUTION	RAD05957	CONSUMED-	1.00	OUNCE (LIQ)	BOTTLE, PLASTIC
BUFFER SOLUTION	RAD5948	CONSUMED	1.00	LITER	BOTTLE, PLASTIC
DRY LUBE MOLY	RAD05953	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAY CLUR	RAD05954	CONSUMED-	11.50	OUNCE (LIQ)	CAN, AEROSOL

Location: T-7A

Chemical	Container ID	Status	Quantity	Units	Container Description
ANTIFREEZE	RAD06055	PROCESS	1.00	GALLON	BOTTLE, GLASS
ANTIFREEZE	RAD06056	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
ANTIFREEZE	RAD06057	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
APIEZON GREASE	RAD06074	PROCESS	25.00	GRAM	TUBE, SQUEEZE
CELVACENCE GREASE	RAD06020	PROCESS	8.00	OUNCE (DRY)	BOTTLE, PLASTIC
CLEANER, GLASS	RAD06042	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
CLEANER, WINDOW	RAD06043	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
COPPER, SHOT	RAD06064	PROCESS	5.00	POUND	BOTTLE, PLASTIC
CURING AGENT	RAD06044	PROCESS	0.13	GALLON	BOTTLE, METAL
DEUTERIUM	RAD06018	PROCESS	1.00	LITER	
ELECTROLYTE	RAD06070	PROCESS	200.00	MILLILITER	BOTTLE, GLASS
EPOXY CEMENT	RAD06007	PROCESS	0.25	GALLON	BOTTLE, METAL
ETHYLENE GLYCOL	RAD06049	PROCESS	1.00	LITER	BOTTLE, GLASS
ETHYLENE GLYCOL	RAD06050	PROCESS	1.00	LITER	BOTTLE, GLASS
ETHYLENE GLYCOL	RAD06051	PROCESS	1.00	LITER	BOTTLE, GLASS
ETHYLENE GLYCOL	RAD06052	PROCESS	1.00	LITER	BOTTLE, GLASS

ETHYLENE GLYCOL	RAD06053	PROCESS	1.00	LITER	BOTTLE, GLASS
ETHYLENE GLYCOL	RAD06054	PROCESS	1.00	LITER	BOTTLE, GLASS
FLUX, SAFETY SILVER	RAD06062	PROCESS	16.00	OUNCE (DRY)	BOTTLE, PLASTIC
FLUX, SAFETY SILVER	RAD06063	PROCESS	16.00	OUNCE (DRY)	BOTTLE, PLASTIC
FLUX, STAY CLEAN	RAD06008	PROCESS	32.00	OUNCE (LIQ)	BOTTLE, PLASTIC
FLUX, STAY CLEAN	RAD06009	PROCESS	32.00	OUNCE (LIQ)	BOTTLE, PLASTIC
FLUX, STAY CLEAN	RAD06010	PROCESS	32.00	OUNCE (LIQ)	BOTTLE, PLASTIC
GREASE, CRY-CON	RAD06066	PROCESS	2.00	OUNCE (DRY)	BOTTLE, GLASS
KRYLON SPRAY COATING	RAD06011	PROCESS	13.00	OUNCE (LIQ)	CAN, AEROSOL
KRYLON SPRAY COATING	RAD06012	PROCESS	13.00	OUNCE (LIQ)	CAN, AEROSOL
LEAK TEC	RAD06004	DISPOSED	4.00	OUNCE (LIQ)	BOTTLE, PLASTIC
LEAK TEC	RAD06005	PROCESS	4.00	OUNCE (LIQ)	BOTTLE, PLASTIC
LOCTITE SEALANT	RAD06021	PROCESS	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC
LOCTITE SEALANT	RAD06022	PROCESS	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC
LOCTITE SEALANT	RAD06023	PROCESS	2.00	OUNCE (LIQ)	BOTTLE, METAL
MEGATHERM201	RAD06069	PROCESS	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC
MOLECULAR SIEVE	RAD06039	PROCESS	1.00	POUND	BOTTLE, PLASTIC
MOLECULAR SIEVE	RAD06040	PROCESS	1.00	POUND	BOTTLE, METAL
NEVER SEEZE	RAD06019	PROCESS	10.00	OUNCE (LIQ)	BOTTLE, METAL
NEVER SEEZE	RAD06068	PROCESS	8.00	OUNCE (LIQ)	BOTTLE, METAL
OIL, 3 IN 1	RAD06075	PROCESS	3.00	OUNCE (LIQ)	BOTTLE, METAL
OIL, DUO SEAL	RAD06035	CONSUMED-	0.50	GALLON	BOTTLE, PLASTIC
OIL, HE200 VACUUM PUMP	RAD06036	CONSUMED-	1.00	LITER	BOTTLE, PLASTIC
OIL, VACUUM PUMP	RAD06028	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	RAD06029	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	RAD06030	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	RAD06031	PROCESS	0.50	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	RAD06032	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
PAINT, VARNISH CLEAR	RAD06045	PROCESS	0.13	GALLON	BOTTLE, METAL
PASTE, RUBY FLUID FLUX	RAD06076	PROCESS	8.00	OUNCE (DRY)	BOTTLE, PLASTIC
PROPANE	RAD06014	PROCESS	14.00	EACH	CYLINDER, COMPRESSED GAS
PROPANE	RAD06015	PROCESS	14.00	EACH	CYLINDER, COMPRESSED GAS
PROPANE	RAD06016	PROCESS	0.00	EACH	CYLINDER, COMPRESSED GAS
PROPANE	RAD06017	PROCESS	0.00	EACH	CYLINDER, COMPRESSED GAS
PST PIPE SEALANT	RAD06001	PROCESS	2.00	OUNCE (DRY)	TUBE, SQUEEZE
PST PIPE SEALANT	RAD06002	PROCESS	2.00	OUNCE (DRY)	TUBE, SQUEEZE
PST PIPE SEALANT	RAD06003	PROCESS	2.00	OUNCE (DRY)	TUBE, SQUEEZE
SANTOVAC 5	RAD06046	PROCESS	500.00	MILLILITER	BOTTLE, GLASS
SANTOVAC 5	RAD06047	PROCESS	100.00	MILLILITER	BOTTLE, GLASS
SANTOVAC 5	RAD06048	PROCESS	100.00	MILLILITER	BOTTLE, GLASS
SEALANT, HIGH VACUUM	RAD06058	PROCESS	16.00	OUNCE (DRY)	CAN, AEROSOL
SEALANT, HIGH VACUUM	RAD06059	PROCESS	16.00	OUNCE (DRY)	CAN, AEROSOL
SEALANT, HIGH VACUUM	RAD06060	PROCESS	16.00	OUNCE (DRY)	CAN, AEROSOL
SILVER GOOP	RAD06073	PROCESS	1.00	OUNCE (DRY)	TUBE, SQUEEZE
SOLDER	RAD06061	PROCESS	50.00	OUNCE (DRY)	BOX, CARDBOARD
SOLDER, STAY BRITE	RAD06071	PROCESS	16.00	OUNCE (DRY)	ROLL
SOLDER, STAY BRITE	RAD06072	PROCESS	16.00	OUNCE (DRY)	ROLL
TURPINE	RAD06013	PROCESS	5.00	GALLON	BOTTLE, METAL
WD-40	RAD06024	PROCESS	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	RAD06025	PROCESS	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	RAD06026	PROCESS	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	RAD06027	PROCESS	9.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-82

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETYLENE	CI08021	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
CORROSION INHIBITOR 547	RAD05808	CONSUMED	4.00	GALLON	DRUM, PLASTIC OTHER
CORROSION INHIBITOR 547	RAD05809	CONSUMED	5.00	GALLON	DRUM, PLASTIC OTHER
DEUTERIUM	CI12156	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS
DEUTERIUM	CI12171	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS
DEUTERIUM	CI14490	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS
DEUTERIUM	RAD05869	CONSUMED-	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS
DEUTERIUM	RAD05870	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS
DEUTERIUM	RAD05871	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS
DEUTERIUM	RAD05872	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS
DEUTERIUM	RAD05873	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS
DEUTERIUM	RAD05874	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS

DEUTERIUM	RAD05875	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS
DEUTERIUM	WM003651	PROCESS	0.60	KILOGRAM	CYLINDER, COMPRESSED GAS

Location: T-83

Chemical	Container ID	Status	Quantity	Units	Container Description
NITROGEN	CI08080	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI08081	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI08083	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI08089	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI971173	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI971175	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI971176	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI971177	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI971178	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI971179	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI971180	CONSUMED	0.00	EACH	CYLINDER, COMPRESSED GAS
NITROGEN	CI971182	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS

Location: T-84

Chemical	Container ID	Status	Quantity	Units	Container Description
PRIMER, PVC	CI08062	PROCESS	1.00	OUNCE (DRY)	BOTTLE, METAL

Location: T-86

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETYLENE	CI970256	CONSUMED-	1.00	EACH	CYLINDER, COMPRESSED GAS
ANTIFREEZE	RAD05811	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
OXYGEN	RM003070	CONSUMED-	1.00		CYLINDER, COMPRESSED GAS
THREAD CUTTING LUB	RAD05812	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
THREAD CUTTING LUB	RAD05813	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
THREAD CUTTING LUB	RAD05814	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
THREAD CUTTING LUB	RAD05815	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC
THREAD CUTTING LUB	RAD05816	CONSUMED-	1.00	GALLON	BOTTLE, PLASTIC

Location: T-87

Chemical	Container ID	Status	Quantity	Units	Container Description
LUBRICANT	CI13363	PROCESS	32.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OIL, INLAND 19	CI13359	PROCESS	0.50	GALLON	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI13355	PROCESS	1.00	LITER	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI13356	PROCESS	1.00	LITER	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI13357	PROCESS	16.00	OUNCE (LIQ)	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI13360	PROCESS	4.00	LITER	BOTTLE, PLASTIC
OIL, VACUUM PUMP	CI13362	PROCESS	4.00	LITER	BOTTLE, PLASTIC

Location: T-88

Chemical	Container ID	Status	Quantity	Units	Container Description
ACID, BENZOIC	RAD05877	PROCESS	5.00	POUND	BOX, CARDBOARD
ADHESIVE, SOUTHLAND 200	RAD02738	DISPOSED	5.00	GALLON	BOTTLE, PLASTIC
ALUMINUM OXIDE	RAD02718	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02719	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02720	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02721	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02722	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02723	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02724	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02725	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02726	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02727	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02728	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02729	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02730	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02731	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02732	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02733	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL

ALUMINUM OXIDE	RAD02734	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM OXIDE	RAD02735	DISPOSED	400.00	POUND	DRUM, STEEL 55-GAL
ALUMINUM SHOT	RAD02736	DISPOSED	2120.00	POUND	DRUM, STEEL 55-GAL
CARPET ADHESIVE FOR TERF	RAD02737	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
CATALYST, DEOXO	CI13335	CONSUMED-	0.00		DRUM
CATALYST, DEOXO	CI13336	CONSUMED-	0.00		DRUM
CATALYST, DEOXO	CI13337	CONSUMED-	0.00		DRUM
CATALYST, DEOXO	CI13338	CONSUMED-	0.00		DRUM
CATALYST, DEOXO	CI13353	CONSUMED-	80.00	POUND	DRUM, STEEL 15-GAL
COPPER	RAD05876	CONSUMED	20.00	POUND	BAG, OTHER
COPPER POWDER	CI13343	DISPOSED	1.00	POUND	BOTTLE, PLASTIC
CORROSION	RAD05883	CONSUMED-	5.00	OUNCE (LIQ)	CAN, METAL
DEALA OIL AX	CI13340	DISPOSED	55.00	GALLON	DRUM, STEEL 55-GAL
INSULATING RESIN	CI13341	CONSUMED	15.00	OUNCE (LIQ)	BOTTLE, METAL
MOLECULAR SIEVE	CI13331	CONSUMED-	300.00	POUND	BOTTLE, PLASTIC
MOLECULAR SIEVE	CI13332	CONSUMED-	300.00	POUND	DRUM, STEEL 55-GAL
MOLECULAR SIEVE	RAD05881	PROCESS	34.00	MILLILITER	BOTTLE, GLASS
OIL	CI13348	CONSUMED	5.00	GALLON	CAN, METAL
OIL, 22W	CI13344	DISPOSED	5.00	GALLON	CAN, METAL
PAINT	CI13342	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05878	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05879	PROCESS	1.00	GALLON	CAN, METAL
PERLITE INSULATION	CI13339	CONSUMED	30.00	GALLON	DRUM, STEEL 30-GAL
POOL REPAIR	RAD05882	DISPOSED	2.00	OUNCE (LIQ)	BOTTLE, PLASTIC

Location: T-88 MEZZA

Chemical	Container ID	Status	Quantity	Units	Container Description
MOLECULAR KIT	CI13350	DISPOSED	200.00	GRAM	BOTTLE, PLASTIC
OIL, PUMP	CI13345	DISPOSED	0.25	GALLON	BOTTLE, PLASTIC
OIL, PUMP	CI13346	DISPOSED	0.25	GALLON	BOTTLE, PLASTIC
OIL, PUMP	CI13347	DISPOSED	0.25	GALLON	BOTTLE, PLASTIC
OIL, PUMP	CI13349	DISPOSED	0.25	GALLON	BOTTLE, PLASTIC

Location: T-90

Chemical	Container ID	Status	Quantity	Units	Container Description
ABSORBENT	CI13384	DISPOSED	50.00	POUND	DRUM, STEEL 15-GAL
ADHESIVE	CI11068	PROCESS	0.13	GALLON	BOTTLE, METAL
ADHESIVE, 130	RAD05820	NOT FOUND	1.00	GALLON	CAN, METAL
ADHESIVE, 131	CI13380	PROCESS	1.00	GALLON	CAN, METAL
ADHESIVE, 137	RAD05821	CONSUMED-	1.00	GALLON	CAN, METAL
ADHESIVE, COVE BASE	CI11116	PROCESS	1.00	GALLON	
ADHESIVE, COVE BASE	CI11190	PROCESS	1.00	GALLON	CAN, METAL
ADHESIVE, COVE BASE	CI11191	CONSUMED	1.00	CUBIC CENTIM	CAN, METAL
ADHESIVE, COVE BASE	CI11192	CONSUMED-	1.00	GALLON	
ADHESIVE, COVE BASE	CI13368	CONSUMED-	1.00	GALLON	CAN, METAL
ADHESIVE, COVE BASE	CI13379	CONSUMED-	1.00	GALLON	CAN, METAL
ADHESIVE, ELMER'S GLUE ALL	RAD05817	PROCESS	1.00	GALLON	BOTTLE, PLASTIC
ADHESIVE, RUBATEX	CI11070	PROCESS	32.00	OUNCE (LIQ)	BOTTLE, PLASTIC
ADHESIVE, RUBATEX	CI11173	PROCESS	1.00	LITER	BOTTLE, METAL
ADHESIVE, SPRAY	CI11181	PROCESS	11.00	OUNCE (LIQ)	CAN, AEROSOL
ANTIFREEZE	CI11117	DISPOSED	1.00	GALLON	
ANTIFREEZE	CI11118	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
BELT DRESSING	CI11095	PROCESS	12.00	OUNCE (LIQ)	CAN, AEROSOL
BIRD X REPELLENT	RAD05942	DISPOSED	10.00	OUNCE (DRY)	TUBE, OTHER
DRYLOCK	RAD05824	PROCESS	1.00	POUND	BOX, CARDBOARD
DRYLOCK	RAD05826	PROCESS	1.00	POUND	
FLUX, STAY CLEAN	CI11044	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11045	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11046	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11048	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11049	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11050	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11053	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11054	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11055	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11056	DISPOSED	1.00	LITER	BOTTLE, PLASTIC

FLUX, STAY CLEAN	CI11058	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11059	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
FLUX, STAY CLEAN	CI11060	DISPOSED	1.00	LITER	BOTTLE, PLASTIC
GLUE, FAST-TACK	CI11131	DISPOSED	17.00	OUNCE (LIQ)	BOTTLE, METAL
GLUE, FAST-TACK	CI11132	DISPOSED	17.00	OUNCE (LIQ)	BOTTLE, METAL
GLUE, FAST-TACK	CI11133	DISPOSED	17.00	OUNCE (LIQ)	BOTTLE, METAL
GLUE, FAST-TACK	CI11134	CONSUMED	17.00	OUNCE (LIQ)	BOTTLE, METAL
GLUE, FAST-TACK	CI11135	CONSUMED	17.00	OUNCE (LIQ)	BOTTLE, METAL
GLUE, FAST-TACK	CI11136	DISPOSED	17.00	OUNCE (LIQ)	BOTTLE, METAL
GLUE, FAST-TACK	CI11137	CONSUMED	17.00	OUNCE (LIQ)	BOTTLE, METAL
GUM, ACOUSTIC	RAD05829	CONSUMED-	50.00	POUND	BAG, PLASTIC
INDUSTRIAL PROTECTIVE COATIN	RAD05938	PROCESS	16.00	OUNCE (LIQ)	CAN, METAL
MASTERKOTE GROTE	RAD05833	CONSUMED	50.00	POUND	
OIL, 600-W	CI11182	CONSUMED	5.00	GALLON	CAN, METAL
OIL, 600-W	CI11183	PROCESS	5.00	GALLON	CAN, METAL
OIL, DUO SEAL	CI11184	CONSUMED	1.00	GALLON	BOTTLE, PLASTIC
OIL, DUO SEAL	CI17073	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
OIL, DUO SEAL	RAD05803	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
OIL, DUO SEAL	RAD05804	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
OIL, DUO SEAL	RAD05806	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
OIL, PUMP	CI11082	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
OIL, PUMP	CI11083	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
OIL, PUMP	CI11084	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
OIL, PUMP	CI11085	DISPOSED	1.00	GALLON	BOTTLE, PLASTIC
PAINT	RAD05755	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05757	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05758	CONSUMED	1.00	GALLON	CAN, METAL
PAINT	RAD05759	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05760	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05761	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05762	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05763	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05764	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05765	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05766	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05767	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05768	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05770	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05771	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05772	CONSUMED	1.00	GALLON	CAN, METAL
PAINT	RAD05773	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05798	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD05799	CONSUMED-	1.00	GALLON	CAN, METAL
PAINT	RAD06223	CONSUMED-	1.00	GALLON	CAN, METAL
PAINT	RAD06226	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06227	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06228	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06229	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06231	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06232	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06234	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06236	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06237	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06238	CONSUMED	1.00	GALLON	CAN, METAL
PAINT	RAD06239	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06241	CONSUMED-	1.00	GALLON	CAN, METAL
PAINT	RAD06242	CONSUMED-	1.00	GALLON	CAN, METAL
PAINT	RAD06243	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06246	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06248	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06249	PROCESS	1.00	GALLON	CAN, METAL
PAINT	RAD06250	PROCESS	1.00	GALLON	CAN, METAL
PAINT, MRO	CI14200	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
PAINT, MRO	CI14201	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
PAINT, MRO	CI14204	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
PAINT, REMOVER	CI11139	CONSUMED-	1.00	LITER	CAN, METAL
PAINT, SPRAY	CI11144	PROCESS	0.25	OUNCE (LIQ)	CAN, METAL
PAINT, SPRAY	CI11159	CONSUMED-	17.00	OUNCE (LIQ)	CAN, AEROSOL

PAINT, SPRAY	CI11160	CONSUMED-	17.00	OUNCE (LIQ)	CAN, AEROSOL
PAINT, SPRAY	CI11161	PROCESS	17.00	OUNCE (LIQ)	CAN, AEROSOL
PAINT, SPRAY	RAD06216	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
PLASTER	CI13383	DISPOSED	100.00	POUND	DRUM, STEEL 15-GAL
PLASTER	RAD05834	DISPOSED	10.00	POUND	BAG, PLASTIC
PLASTER	RAD05835	PROCESS	10.00	POUND	BAG, PLASTIC
PRIMER, PVC	CI11067	PROCESS	32.00	OUNCE (LIQ)	BOTTLE, METAL
PROPANE	CI11108	PROCESS	14.00	EACH	CYLINDER, COMPRESSED GAS
PROPANE	CI11110	PROCESS	14.00	EACH	CYLINDER, COMPRESSED GAS
PROPANE	RAD06213	PROCESS	14.00	EACH	CYLINDER, COMPRESSED GAS
PROPANE	RAD06214	CONSUMED-	14.00	EACH	CYLINDER, COMPRESSED GAS
ROCKLIKE	RAD05948	CONSUMED	5.00	GALLON	BUCKET, PLASTIC
SACKCRETE	RAD05831	PROCESS	40.00	POUND	
SPRAY MARKER	RAD06215	CONSUMED-	16.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAYGRIP CHESTERTRON	CI11036	PROCESS	8.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAYGRIP CHESTERTRON	CI11037	CONSUMED	8.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAYGRIP CHESTERTRON	CI11038	PROCESS	8.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAYGRIP CHESTERTRON	CI11039	CONSUMED	8.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAYGRIP CHESTERTRON	CI11040	CONSUMED	8.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAYGRIP CHESTERTRON	CI11041	PROCESS	8.00	OUNCE (LIQ)	CAN, AEROSOL
SPRAYGRIP CHESTERTRON	CI11043	PROCESS	8.00	OUNCE (LIQ)	CAN, AEROSOL
VASOLINE	RAD05849	CONSUMED-	3.00	OUNCE (DRY)	BOTTLE, PLASTIC
WD-40	CI08006	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI08010	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI08012	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	RAD05939	CONSUMED-	9.00	OUNCE (LIQ)	CAN, METAL
ZEROL-150	RAD05807	PROCESS	1.00	GALLON	CAN, METAL

Location: T-99

Chemical	Container ID	Status	Quantity	Units	Container Description
ARGON	CI971223	PROCESS	0.00	EACH	CYLINDER, COMPRESSED GAS
BUFFER SOLUTION	RAD06083	CONSUMED-	50.00	MILLILITER	BOTTLE, PLASTIC
BUFFER SOLUTION	RAD06084	CONSUMED-	50.00	MILLILITER	BOTTLE, PLASTIC
DARRICIDE 707	CI970671	CONSUMED-	3.00	GALLON	DRUM, PLASTIC OTHER
FERROQURST	CI970617	CONSUMED-	2.00	GALLON	DRUM, PLASTIC OTHER
GAS LEAK DETECTOR	RAD06086	CONSUMED-	8.00	OUNCE (LIQ)	BOTTLE, PLASTIC
TAP MAGIC	RAD06091	CONSUMED-	0.13	GALLON	CAN, METAL
TAPMATIC	RAD06090	CONSUMED-	0.13	GALLON	CAN, METAL
TORR SEAL BASE RESIN	RAD06088	CONSUMED-	4.00	OUNCE (DRY)	TUBE, SQUEEZE
TORR SEAL HARDENER	RAD06089	CONSUMED-	2.00	OUNCE (DRY)	TUBE, SQUEEZE
TRICHLOROETHANE	CI11127	PROCESS	16.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI11163	PROCESS	0.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI11196	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI11200	CONSUMED-	9.00	OUNCE (LIQ)	CAN, AEROSOL
WD-40	CI14210	CONSUMED	9.00	OUNCE (LIQ)	CAN, AEROSOL

Location: T-DOCK

Chemical	Container ID	Status	Quantity	Units	Container Description
ACETYLENE	CI964139	CONSUMED	1.00	EACH	CYLINDER, COMPRESSED GAS
OXYGEN	CI964140	PROCESS	1.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980046	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980047	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980048	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS
P-10 GAS	CI980049	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS

Location: T-DOCK 1

Chemical	Container ID	Status	Quantity	Units	Container Description
P-10 GAS	CI972979	CONSUMED-	0.00	EACH	CYLINDER, COMPRESSED GAS

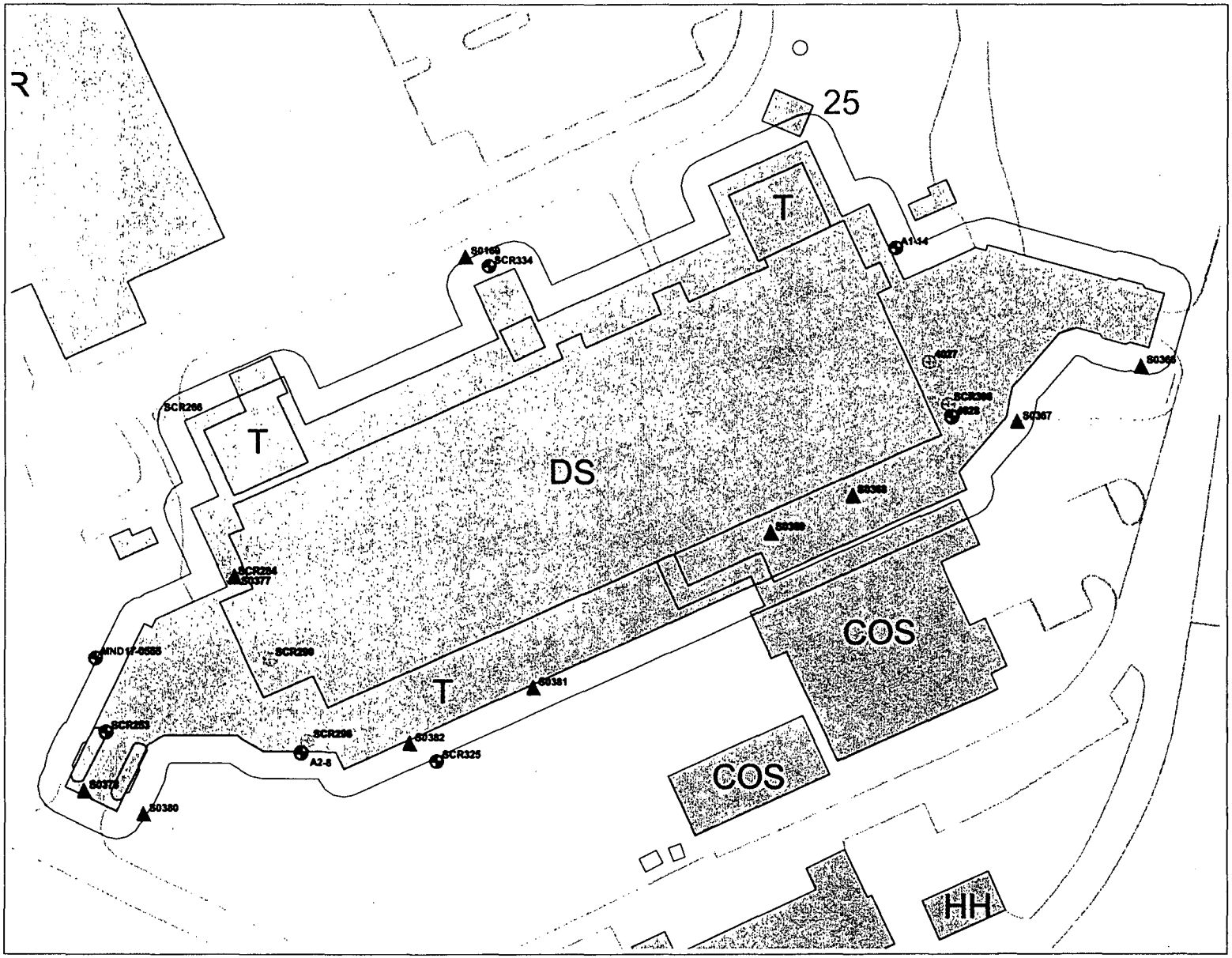
Location: T-DOCK 2

Chemical	Container ID	Status	Quantity	Units	Container Description
ASPHALT	VI980089	CONSUMED-	54.00	GALLON	CAN, METAL

Appendix L

Soil Sampling, Vicinity

T Building Historical Sample Locations within 15 Feet



Sample Detect
Sample Nondetect

50 0 50 100 150 200 Feet

MOUND
Environmental Restoration Geographic Information System

e:\cad_proj\T_BLDG\esr\tbldg15ft102802.apr

10/28/02

T Building Detects

Location_name	Sample_id	Collection	Value_name	Measured_va	units	Detection_li	Chem_c	Start	End	Lab	Da	Project_c	Media	Comments
4028	4028-0007.5	19940421	1,1,2-Trichloro-1,2,2-Trifluoroethane	49480.5000	PPB		ORVOA	7.5	7.5			SVROU2	Other	
4028	4028-0005.0	19940421	1,1,2-Trichloro-1,2,2-Trifluoroethane	25974.0000	PPB		ORVOA	5.0	5.0			SVROU2	Other	
A2-8	3008-0005	19930910	Aluminum	8330.0000	MG/KG		INORG	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Aluminum	7820.0000	MG/KG		INORG	4.5	6.5			MND16	Soil	
MND17-0555	0555-5012	19950424	Antimony	22.4970	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Antimony	21.0420	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5004	19950424	Antimony	17.2050	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Antimony	5.8470	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Arsenic	44.0510	MG/KG	100.0000	INORG	4.0	8.0			MND17	Soil	2
MND17-0555	0555-5001	19950424	Arsenic	21.3970	MG/KG	100.0000	INORG	0.0	0.5			MND17	Soil	2
MND17-0555	0555-5012	19950424	Arsenic	13.5280	MG/KG	100.0000	INORG	8.0	12.0			MND17	Soil	2
MND17-0555	0555-5004	19950424	Arsenic	8.0250	MG/KG	100.0000	INORG	0.5	4.0			MND17	Soil	
A1-14	2014-0005	19930831	Arsenic	6.0000	MG/KG		INORG	4.5	6.5		J	MND16	Soil	
A2-8	3008-0005	19930910	Arsenic	5.2000	MG/KG		INORG	4.0	6.0		J	MND16	Soil	
MND17-0555	0555-5004	19950424	Barium	248.4900	MG/KG	2000.0000	INORG	0.5	4.0			MND17	Soil	2
MND17-0555	0555-5008	19950424	Barium	248.3300	MG/KG	2000.0000	INORG	4.0	8.0			MND17	Soil	2
MND17-0555	0555-5012	19950424	Barium	247.7100	MG/KG	2000.0000	INORG	8.0	12.0			MND17	Soil	2
MND17-0555	0555-5001	19950424	Barium	240.9600	MG/KG	2000.0000	INORG	0.0	0.5			MND17	Soil	2
A1-14	2014-0005	19930831	Barium	56.2000	MG/KG		INORG	4.5	6.5			MND16	Soil	
A2-8	3008-0005	19930910	Barium	52.2000	MG/KG		INORG	4.0	6.0			MND16	Soil	
A2-8	3008-0005	19930910	Benzo(b)fluoranthene	210.0000	UG/KG		ORSVO	4.0	6.0	J	J	MND16	Soil	
A1-14	2014-0005	19930831	Beryllium	0.5000	MG/KG		INORG	4.5	6.5	B		MND16	Soil	
A2-8	3008-0005	19930910	Beryllium	0.4700	MG/KG		INORG	4.0	6.0	B		MND16	Soil	
MND17-0555	0555-5008	19950424	Cadmium	43.5440	MG/KG	20.0000	INORG	4.0	8.0			MND17	Soil	2
MND17-0555	0555-5012	19950424	Cadmium	8.6422	MG/KG	20.0000	INORG	8.0	12.0			MND17	Soil	2
MND17-0555	0555-5001	19950424	Cadmium	-11.2310	MG/KG	20.0000	INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5004	19950424	Cadmium	-24.6200	MG/KG	20.0000	INORG	0.5	4.0			MND17	Soil	
A2-8	3008-0005	19930910	Calcium	114000.0000	MG/KG		INORG	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Calcium	106000.0000	MG/KG		INORG	4.5	6.5			MND16	Soil	
MND17-0555	0555-5012	19950424	Calcium	88920.0000	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Calcium	82424.0000	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Calcium	77825.0000	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5004	19950424	Calcium	66203.0000	MG/KG		INORG	0.5	4.0			MND17	Soil	
A2-8	3008-0005	19930910	Chromium	13.3000	MG/KG		INORG	4.0	6.0		J	MND16	Soil	
A1-14	2014-0005	19930831	Chromium	11.8000	MG/KG		INORG	4.5	6.5		J	MND16	Soil	
MND17-0555	0555-5008	19950424	Chromium-HI	-41.6510	MG/KG	100.0000	INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5004	19950424	Chromium-HI	-55.7160	MG/KG	100.0000	INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Chromium-HI	-77.0600	MG/KG	100.0000	INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5012	19950424	Chromium-HI	-169.6700	MG/KG	100.0000	INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Chromium-LO	78.8860	MG/KG		INORG	0.0	0.5			MND17	Soil	

Location_name	Sample_id	Collection	Value_name	Measured_va	units	Detection_li	Chem_c	Start	End	Lab	Da	Project_c	Media	Comments
MND17-0555	0555-5004	19950424	Chromium-LO	75.3310	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Chromium-LO	-1.3346	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Chromium-LO	-93.0350	MG/KG		INORG	4.0	8.0			MND17	Soil	
A1-14	2014-0005	19930831	Cobalt	7.5000	MG/KG		INORG	4.5	6.5	B		MND16	Soil	
A2-8	3008-0005	19930910	Cobalt	7.2000	MG/KG		INORG	4.0	6.0	B		MND16	Soil	
MND17-0555	0555-5008	19950424	Cobalt	-49.1760	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5004	19950424	Cobalt	-84.9600	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Cobalt	-174.7300	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Cobalt	-185.6900	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5008	19950424	Copper	27.1910	MG/KG		INORG	4.0	8.0			MND17	Soil	2
A2-8	3008-0005	19930910	Copper	14.3000	MG/KG		INORG	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Copper	13.5000	MG/KG		INORG	4.5	6.5			MND16	Soil	
MND17-0555	0555-5012	19950424	Copper	9.6985	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5004	19950424	Copper	-4.2055	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Copper	-36.7290	MG/KG		INORG	0.0	0.5			MND17	Soil	
A2-8	3008-0005	19930910	Fluoranthene	210.0000	UG/KG		ORSVO	4.0	6.0	J	J	MND16	Soil	
MND17-0555	0555-5008	19950424	Iron	28960.0000	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Iron	27606.0000	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Iron	23759.0000	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5004	19950424	Iron	21312.0000	MG/KG		INORG	0.5	4.0			MND17	Soil	
A1-14	2014-0005	19930831	Iron	16100.0000	MG/KG		INORG	4.5	6.5			MND16	Soil	
A2-8	3008-0005	19930910	Iron	16100.0000	MG/KG		INORG	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Lead	9.9000	MG/KG		INORG	4.5	6.5		J	MND16	Soil	
A2-8	3008-0005	19930910	Lead	9.5000	MG/KG		INORG	4.0	6.0			MND16	Soil	
MND17-0555	0555-5004	19950424	Lead	7.9306	MG/KG	100.0000	INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Lead	-0.5064	MG/KG	100.0000	INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Lead	-3.1495	MG/KG	100.0000	INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Lead	-3.9824	MG/KG	100.0000	INORG	0.0	0.5			MND17	Soil	
A1-14	2014-0005	19930831	Magnesium	40500.0000	MG/KG		INORG	4.5	6.5			MND16	Soil	2
A2-8	3008-0005	19930910	Magnesium	39700.0000	MG/KG		INORG	4.0	6.0			MND16	Soil	
MND17-0555	0555-5001	19950424	Manganese	539.6600	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5004	19950424	Manganese	506.7700	MG/KG		INORG	0.5	4.0			MND17	Soil	
A2-8	3008-0005	19930910	Manganese	434.0000	MG/KG		INORG	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Manganese	340.0000	MG/KG		INORG	4.5	6.5		J	MND16	Soil	
MND17-0555	0555-5012	19950424	Manganese	119.3600	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Manganese	64.4930	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Mercury	-0.2488	MG/KG	4.0000	INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5004	19950424	Mercury	-3.1243	MG/KG	4.0000	INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Mercury	-17.0940	MG/KG	4.0000	INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Mercury	-30.9290	MG/KG	4.0000	INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5004	19950424	Molybdenum	3.2318	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Molybdenum	0.4122	MG/KG		INORG	4.0	8.0			MND17	Soil	

Location_name	Sample_id	Collection	Value_name	Measured_va	units	Detection_li	Chem_c	Start	End	Lab	Da	Project_c	Media	Comments
MND17-0555	0555-5001	19950424	Molybdenum	-0.4722	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5012	19950424	Molybdenum	-1.2176	MG/KG		INORG	8.0	12.0			MND17	Soil	
A2-8	3008-0005	19930910	Neptunium-237	0.0270	PCI/G	0.0400	RAD	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Neptunium-237	-0.1300	PCI/G	0.0010	RAD	4.5	6.5			MND16	Soil	
MND17-0555	0555-5001	19950424	Nickel	49.4750	MG/KG		INORG	0.0	0.5			MND17	Soil	2
MND17-0555	0555-5008	19950424	Nickel	12.9740	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5004	19950424	Nickel	-12.2970	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Nickel	-18.5790	MG/KG		INORG	8.0	12.0			MND17	Soil	
A2-8	3008-0005	19930910	pH	7.1000	STD UNIT		OTHER	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	pH	6.4000	STD UNIT		OTHER	4.5	6.5			MND16	Soil	
SCR253	90073031	19900730	Plutonium-238	39.0000	PCI/G		RAD	0.0	0.0			SCRDAT	Soil	12
SCR334	8802174	19880217	Plutonium-238	31.0000	PCI/G		RAD	1.0	1.0			SCRDAT	Soil	12
SCR334	8802162	19880216	Plutonium-238	29.0000	PCI/G		RAD	2.0	2.0			SCRDAT	Soil	12
SCR253	90073032	19900730	Plutonium-238	28.0000	PCI/G		RAD	0.0	0.0			SCRDAT	Soil	12
SCR253	90072711	19900726	Plutonium-238	27.0000	PCI/G		RAD	0.0	0.0			SCRDAT	Soil	12
SCR334	8802161	19880216	Plutonium-238	27.0000	PCI/G		RAD	2.5	2.5			SCRDAT	Soil	12
SCR334	8802102	19880210	Plutonium-238	27.0000	PCI/G		RAD	2.0	2.0			SCRDAT	Soil	12
SCR325	8801291	19880129	Plutonium-238	27.0000	PCI/G		RAD	2.0	2.0			SCRDAT	Soil	12
SCR253	9007282	19900728	Plutonium-238	25.0000	PCI/G		RAD	2.0	2.0			SCRDAT	Soil	12
SCR253	90073033	19900730	Plutonium-238	25.0000	PCI/G		RAD	0.0	0.0			SCRDAT	Soil	12
S0377	6260	19840801	Plutonium-238	4.0200	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	2
S0366	3062	19831001	Plutonium-238	1.4100	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	2
S0368	6230	19840801	Plutonium-238	1.2200	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	2
S0380	3072	19831001	Plutonium-238	0.6600	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	2
S0378	6262	19840801	Plutonium-238	0.2600	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	2
A2-8	3008-0005	19930910	Plutonium-238	0.2200	PCI/G	0.5900	RAD	4.0	6.0			MND16	Soil	2
S0369	6229	19840801	Plutonium-238	0.1500	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	2
S0367	6225	19840801	Plutonium-238	0.1200	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	
S0381	3071	19831001	Plutonium-238	0.1200	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	
S0169	8424	19841101	Plutonium-238	0.0500	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	
S0382	3070	19831001	Plutonium-238	0.0200	PCI/G	0.0100	RAD	0.0	0.0			RSS	Soil	
A1-14	2014-0005	19930831	Plutonium-238	-0.1400	PCI/G	0.5700	RAD	4.5	6.5			MND16	Soil	
A1-14	2014-0005	19930831	Plutonium-239/240	0.0680	PCI/G	0.4200	RAD	4.5	6.5			MND16	Soil	
A2-8	3008-0005	19930910	Plutonium-239/240	0.0500	PCI/G	0.4500	RAD	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Plutonium-242	0.1900	PCI/G	0.5500	RAD	4.5	6.5			MND16	Soil	
A2-8	3008-0005	19930910	Plutonium-242	0.1000	PCI/G	0.1800	RAD	4.0	6.0			MND16	Soil	
MND17-0555	0555-5008	19950424	Potassium	34529.0000	MG/KG		INORG	4.0	8.0			MND17	Soil	2
MND17-0555	0555-5012	19950424	Potassium	33641.0000	MG/KG		INORG	8.0	12.0			MND17	Soil	2
MND17-0555	0555-5001	19950424	Potassium	23352.0000	MG/KG		INORG	0.0	0.5			MND17	Soil	2
MND17-0555	0555-5004	19950424	Potassium	20203.0000	MG/KG		INORG	0.5	4.0			MND17	Soil	2
A1-14	2014-0005	19930831	Potassium	1650.0000	MG/KG		INORG	4.5	6.5			MND16	Soil	
A2-8	3008-0005	19930910	Potassium	1640.0000	MG/KG		INORG	4.0	6.0			MND16	Soil	

Location_name	Sample_id	Collection	Value_name	Measured_va	units	Detection_li	Chem_c	Start	End	Lab	Da	Project_c	Media	Comments
A2-8	3008-0005	19930910	Pyrene	210.0000	UG/KG		ORSVO	4.0	6.0	J	J	MND16	Soil	
MND17-0555	0555-5008	19950424	Rubidium	124.4100	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Rubidium	109.6000	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Rubidium	88.1400	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5004	19950424	Rubidium	84.6160	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5004	19950424	Selenium	-19.7880	MG/KG	20.0000	INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Selenium	-24.9280	MG/KG	20.0000	INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5008	19950424	Selenium	-29.3610	MG/KG	20.0000	INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Selenium	-34.9060	MG/KG	20.0000	INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Silver	30.8212	MG/KG	100.0000	INORG	8.0	12.0			MND17	Soil	2
MND17-0555	0555-5004	19950424	Silver	13.9874	MG/KG	100.0000	INORG	0.5	4.0			MND17	Soil	2
MND17-0555	0555-5008	19950424	Silver	11.6360	MG/KG	100.0000	INORG	4.0	8.0			MND17	Soil	2
MND17-0555	0555-5001	19950424	Silver	-11.6465	MG/KG	100.0000	INORG	0.0	0.5			MND17	Soil	
A1-14	2014-0005	19930831	Sodium	150.0000	MG/KG		INORG	4.5	6.5	B		MND16	Soil	
A2-8	3008-0005	19930910	Sodium	142.0000	MG/KG		INORG	4.0	6.0	B		MND16	Soil	
MND17-0555	0555-5012	19950424	Strontium	196.9700	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Strontium	185.1400	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Strontium	172.1300	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5004	19950424	Strontium	148.5000	MG/KG		INORG	0.5	4.0			MND17	Soil	
A2-8	3008-0005	19930910	Thorium-228	0.3100	PCI/G	0.2900	RAD	4.0	6.0			MND16	Soil	1
A1-14	2014-0005	19930831	Thorium-228	0.2900	PCI/G	0.1800	RAD	4.5	6.5			MND16	Soil	1
A1-14	2014-0005	19930831	Thorium-230	0.8600	PCI/G	0.2000	RAD	4.5	6.5			MND16	Soil	1
A2-8	3008-0005	19930910	Thorium-230	0.8400	PCI/G	0.2900	RAD	4.0	6.0			MND16	Soil	1
SCR325	88021110	19880211	Thorium-232	2.0000	PCI/G		RAD	2.0	2.0			SCRDAT	Soil	123
A1-14	2014-0005	19930831	Thorium-232	0.5400	PCI/G	0.1500	RAD	4.5	6.5			MND16	Soil	1
A2-8	3008-0005	19930910	Thorium-232	0.2400	PCI/G	0.1900	RAD	4.0	6.0			MND16	Soil	1
MND17-0555	0555-5001	19950424	Tin	8.4639	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5008	19950424	Tin	-35.3670	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Tin	-35.5600	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5004	19950424	Tin	-38.0040	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Titanium	3304.1000	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Titanium	3000.8000	MG/KG		INORG	8.0	12.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Titanium	2546.5000	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5004	19950424	Titanium	2442.7000	MG/KG		INORG	0.5	4.0			MND17	Soil	
4028	4028-0007.5	19940421	Total VOC's	49480.5000	PPB		ORVOA	7.5	7.5			SVROU2	Other	
4028	4028-0005.0	19940421	Total VOC's	25974.0000	PPB		ORVOA	5.0	5.0			SVROU2	Other	
S0380	3072	19831001	Tritium	3.5200	PCI/ML		RAD	0.0	0.0			RSS	Soil	
S0382	3070	19831001	Tritium	3.4300	PCI/ML		RAD	0.0	0.0			RSS	Soil	
A1-14	2014-0005	19930831	Uranium-234	0.9200	PCI/G	0.2900	RAD	4.5	6.5			MND16	Soil	
A2-8	3008-0005	19930910	Uranium-234	0.6600	PCI/G	0.0900	RAD	4.0	6.0			MND16	Soil	
A2-8	3008-0005	19930910	Uranium-235	0.0450	PCI/G	0.0700	RAD	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Uranium-235	-0.0090	PCI/G	0.2400	RAD	4.5	6.5			MND16	Soil	

Location_name	Sample_id	Collection	Value_name	Measured_va	units	Detection_li	Chem_c	Start	End	Lab	Da	Project_c	Media	Comments
A1-14	2014-0005	19930831	Uranium-238	0.9500	PCI/G	0.2600	RAD	4.5	6.5			MND16	Soil	
A2-8	3008-0005	19930910	Uranium-238	0.6400	PCI/G	0.0800	RAD	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Vanadium	18.1000	MG/KG		INORG	4.5	6.5			MND16	Soil	
A2-8	3008-0005	19930910	Vanadium	15.9000	MG/KG		INORG	4.0	6.0			MND16	Soil	
MND17-0555	0555-5001	19950424	Zinc	72.2760	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5012	19950424	Zinc	51.9110	MG/KG		INORG	8.0	12.0			MND17	Soil	
A2-8	3008-0005	19930910	Zinc	49.3000	MG/KG		INORG	4.0	6.0			MND16	Soil	
A1-14	2014-0005	19930831	Zinc	45.5000	MG/KG		INORG	4.5	6.5		J	MND16	Soil	
MND17-0555	0555-5004	19950424	Zinc	39.8370	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5008	19950424	Zinc	12.9060	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5004	19950424	Zirconium	200.3700	MG/KG		INORG	0.5	4.0			MND17	Soil	
MND17-0555	0555-5001	19950424	Zirconium	173.1700	MG/KG		INORG	0.0	0.5			MND17	Soil	
MND17-0555	0555-5008	19950424	Zirconium	142.2300	MG/KG		INORG	4.0	8.0			MND17	Soil	
MND17-0555	0555-5012	19950424	Zirconium	113.4800	MG/KG		INORG	8.0	12.0			MND17	Soil	

*Comments

1	Exceeds the 10-6 Risk-Based Guide Value
2	Exceeds the OU9 Soil Background Value
3	Exceeds screening level
5	Exceeds MCL
6	Exceeds the Guide Value based on the hazard index

Lab and data qualifiers are defined on the pages immediately following the non-detects table in this appendix.
Comparison values for results with comments are provided on the "Comparisons for Soil Analytical Results" table at the end of this appendix.

T Building Nondetects

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
A1-14	2014-0005	19930831	1,1,1-Trichloroethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,1,1-Trichloroethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,1,2,2-Tetrachloroethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,1,2,2-Tetrachloroethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,1,2-Trichloroethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,1,2-Trichloroethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,1-Dichloroethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,1-Dichloroethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,1-Dichloroethene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,1-Dichloroethene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	1,2,4-Trichlorobenzene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,2,4-Trichlorobenzene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,2-Dichlorobenzene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,2-Dichlorobenzene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	1,2-Dichloroethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,2-Dichloroethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,2-Dichloroethene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,2-Dichloroethene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,2-Dichloropropane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,2-Dichloropropane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,3-cis-Dichloropropene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,3-cis-Dichloropropene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	1,3-Dichlorobenzene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,3-Dichlorobenzene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	1,3-trans-Dichloropropene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1,3-trans-Dichloropropene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	1,4-Dichlorobenzene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1,4-Dichlorobenzene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	1-chloro-4-phenoxybenzene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	1-chloro-4-phenoxybenzene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	2,2'-oxybis(1-chloropropane)	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2,2'-oxybis(1-chloropropane)	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	2,4,5-Trichlorophenol	3700.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	2,4,5-Trichlorophenol	3700.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	2,4,6-Trichlorophenol	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2,4,6-Trichlorophenol	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	2,4-Dichlorophenol	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2,4-Dichlorophenol	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
A2-8	3008-0005	19930910	2,4-Dimethylphenol	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2,4-Dimethylphenol	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	2,4-Dinitrophenol	3700.0000	UG/KG		ORSVO	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	2,4-Dinitrophenol	3700.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	2,4-Dinitrotoluene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2,4-Dinitrotoluene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	2,6-Dinitrotoluene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2,6-Dinitrotoluene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	2-Butanone	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	2-Butanone	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	2-Chloronaphthalene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2-Chloronaphthalene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	2-Chlorophenol	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2-Chlorophenol	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	2-Hexanone	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	2-Hexanone	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	2-Methylnaphthalene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2-Methylnaphthalene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	2-Methylphenol	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2-Methylphenol	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	2-Nitroaniline	3700.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	2-Nitroaniline	3700.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	2-Nitrophenol	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	2-Nitrophenol	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	3,3'-Dichlorobenzidine	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	3,3'-Dichlorobenzidine	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	3-Nitroaniline	3700.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	3-Nitroaniline	3700.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	4,6-Dinitro-o-Cresol	3700.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	4,6-Dinitro-o-Cresol	3700.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	4-Bromophenyl-phenyl Ether	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	4-Bromophenyl-phenyl Ether	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	4-Chloro-3-methylphenol	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	4-Chloro-3-methylphenol	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	4-Chloroaniline	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	4-Chloroaniline	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	4-Methyl-2-pentanone	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	4-Methyl-2-pentanone	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	4-Methylphenol	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	4-Methylphenol	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
A1-14	2014-0005	19930831	4-Nitroaniline	3700.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	4-Nitroaniline	3700.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	4-Nitrophenol	3700.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	4-Nitrophenol	3700.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	Acenaphthene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Acenaphthene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Acenaphthylene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Acenaphthylene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	Acetone	69.0000	UG/KG		ORVOA	4.5	6.5		UJ	MND16
A2-8	3008-0005	19930910	Acetone	44.0000	UG/KG		ORVOA	4.0	6.0	B	UJ	MND16
A1-14	2014-0005	19930831	Americium-241	0.1100	PCI/G	0.1100	RAD	4.5	6.5	U		MND16
A2-8	3008-0005	19930910	Americium-241	0.0500	PCI/G	0.0500	RAD	4.0	6.0	U		MND16
A2-8	3008-0005	19930910	Anthracene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Anthracene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	Antimony	8.3000	MG/KG		INORG	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Antimony	8.3000	MG/KG		INORG	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	Aroclor-1016	37.0000	UG/KG		ORPPB	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Aroclor-1016	36.0000	UG/KG		ORPPB	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Aroclor-1221	73.0000	UG/KG		ORPPB	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Aroclor-1221	72.0000	UG/KG		ORPPB	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Aroclor-1232	37.0000	UG/KG		ORPPB	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Aroclor-1232	36.0000	UG/KG		ORPPB	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Aroclor-1242	37.0000	UG/KG		ORPPB	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Aroclor-1242	36.0000	UG/KG		ORPPB	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Aroclor-1248	37.0000	UG/KG		ORPPB	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Aroclor-1248	36.0000	UG/KG		ORPPB	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Aroclor-1254	37.0000	UG/KG		ORPPB	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Aroclor-1254	36.0000	UG/KG		ORPPB	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Aroclor-1260	37.0000	UG/KG		ORPPB	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Aroclor-1260	36.0000	UG/KG		ORPPB	4.5	6.5	U	UJ	MND16
A1-14	2014-0005	19930831	Benzene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Benzene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	Benzo(a)anthracene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Benzo(a)anthracene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Benzo(a)pyrene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Benzo(a)pyrene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	Benzo(b)fluoranthene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Benzo(g,h,i)perylene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Benzo(g,h,i)perylene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Benzo(k)fluoranthene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
A1-14	2014-0005	19930831	Benzo(k)fluoranthene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Bis(2-chloroethoxy)methane	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Bis(2-chloroethoxy)methane	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Bis(2-chloroethyl)ether	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Bis(2-chloroethyl)ether	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Bis(2-ethylhexyl)phthalate	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Bis(2-ethylhexyl)phthalate	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	Bromodichloromethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Bromodichloromethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Bromoform	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Bromoform	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Bromomethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Bromomethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	Butyl Benzyl Phthalate	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Butyl Benzyl Phthalate	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	Cadmium	1.1000	MG/KG		INORG	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Cadmium	1.1000	MG/KG		INORG	4.0	6.0	U	UJ	MND16
A2-8	3008-0005	19930910	Carbazole	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Carbazole	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	Carbon Disulfide	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Carbon Disulfide	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Carbon Tetrachloride	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Carbon Tetrachloride	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Chlorobenzene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Chlorobenzene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Chloroethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Chloroethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Chloroform	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Chloroform	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Chloromethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Chloromethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A2-8	3008-0005	19930910	Chrysene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Chrysene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Cyanide	5.5000	MG/KG		INORG	4.0	6.0	U	UJ	MND16
A1-14	2014-0005	19930831	Cyanide	1.1000	MG/KG		INORG	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Dibenz(a,h)anthracene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Dibenz(a,h)anthracene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Dibenzofuran	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Dibenzofuran	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	Dibromochloromethane	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
A2-8	3008-0005	19930910	Dibromochloromethane	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Dichloromethane (Methylene Chloride	26.0000	UG/KG		ORVOA	4.5	6.5	B	UJ	MND16
A2-8	3008-0005	19930910	Dichloromethane (Methylene Chloride	11.0000	UG/KG		ORVOA	4.0	6.0	B	UJ	MND16
A2-8	3008-0005	19930910	Diethyl Phthalate	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Diethyl Phthalate	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Dimethyl Phthalate	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Dimethyl Phthalate	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Di-n-butyl Phthalate	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Di-n-butyl Phthalate	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Di-n-octyl Phthalate	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Di-n-octyl Phthalate	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	Ethylbenzene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Ethylbenzene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Fluoranthene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Fluorene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Fluorene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Hexachlorobenzene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Hexachlorobenzene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Hexachlorobutadiene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Hexachlorobutadiene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Hexachlorocyclopentadiene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Hexachlorocyclopentadiene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Hexachloroethane	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Hexachloroethane	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Indeno(1,2,3-cd)pyrene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Indeno(1,2,3-cd)pyrene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Isophorone	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Isophorone	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Mercury	0.0400	MG/KG		INORG	4.0	6.0	U	UJ	MND16
A1-14	2014-0005	19930831	Mercury	0.0100	MG/KG		INORG	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Naphthalene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Naphthalene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Nitrobenzene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Nitrobenzene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	N-Nitroso-di-n-propylamine	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	N-Nitroso-di-n-propylamine	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	N-Nitrosodiphenylamine	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	N-Nitrosodiphenylamine	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A1-14	2014-0005	19930831	Pentachlorophenol	3700.0000	UG/KG		ORSVO	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Pentachlorophenol	3700.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
A2-8	3008-0005	19930910	Phenanthrene	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Phenanthrene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Phenol	730.0000	UG/KG		ORSVO	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Phenol	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16
MND17-0555	0555-5012	19950424	Plutonium-238	25.0000	PCI/G	25.0000	RAD	8.0	12.0	U		MND17
MND17-0555	0555-5001	19950424	Plutonium-238	25.0000	PCI/G	25.0000	RAD	0.0	0.5	U		MND17
MND17-0555	0555-5004	19950424	Plutonium-238	25.0000	PCI/G	25.0000	RAD	0.5	4.0	U		MND17
MND17-0555	0555-5008	19950424	Plutonium-238	25.0000	PCI/G	25.0000	RAD	4.0	8.0	U		MND17
SCR253	9007276	19900726	Plutonium-238	24.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR266	8802234	19880222	Plutonium-238	24.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802172	19880217	Plutonium-238	24.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8802119	19880211	Plutonium-238	24.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8802112	19880206	Plutonium-238	24.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR253	9007274	19900726	Plutonium-238	23.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802171	19880217	Plutonium-238	23.0000	PCI/G		RAD	1.5	1.5	U		SCRDATA
SCR253	9007278	19900726	Plutonium-238	21.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR334	8802178	19880217	Plutonium-238	21.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802177	19880217	Plutonium-238	21.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR334	8802118	19880211	Plutonium-238	20.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802173	19880217	Plutonium-238	20.0000	PCI/G		RAD	1.5	1.5	U		SCRDATA
SCR325	8802061	19880206	Plutonium-238	20.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	90073127	19900731	Plutonium-238	19.0000	PCI/G		RAD	4.0	4.0	U		SCRDATA
SCR253	90073129	19900731	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR253	90073030	19900730	Plutonium-238	19.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR253	90073029	19900730	Plutonium-238	19.0000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR334	88021112	19880211	Plutonium-238	19.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8802113	19880206	Plutonium-238	19.0000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR290	92012116	19920121	Plutonium-238	18.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	88021010	19880210	Plutonium-238	18.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8802065	19880206	Plutonium-238	18.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8801302	19880130	Plutonium-238	18.0000	PCI/G		RAD	7.0	7.0	U		SCRDATA
SCR325	8801307	19880130	Plutonium-238	18.0000	PCI/G		RAD	7.0	7.0	U		SCRDATA
SCR396	8802238	19880223	Plutonium-238	18.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	90072710	19900726	Plutonium-238	17.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802092	19880209	Plutonium-238	17.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802091	19880209	Plutonium-238	17.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8802064	19880206	Plutonium-238	17.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	90073130	19900731	Plutonium-238	16.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR325	8802063	19880206	Plutonium-238	16.0000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR253	9007284	19900728	Plutonium-238	15.0000	PCI/G		RAD	3.0	3.0	U		SCRDATA

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
SCR325	8801294	19880129	Plutonium-238	15.0000	PCI/G		RAD	6.0	6.0	U		SCRDATA
SCR253	9007283	19900728	Plutonium-238	14.0000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR253	90073028	19900730	Plutonium-238	14.0000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR334	8802106	19880210	Plutonium-238	14.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8802066	19880206	Plutonium-238	14.0000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR266	8802233	19880222	Plutonium-238	13.0000	PCI/G		RAD	1.5	1.5	U		SCRDATA
SCR325	8802068	19880206	Plutonium-238	13.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8802067	19880206	Plutonium-238	13.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	9007273	19900726	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR253	9007275	19900726	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR290	92012115	19920121	Plutonium-238	12.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR325	8801303	19880130	Plutonium-238	12.0000	PCI/G		RAD	8.0	8.0	U		SCRDATA
SCR325	8801308	19880130	Plutonium-238	12.0000	PCI/G		RAD	8.0	8.0	U		SCRDATA
SCR284	9201068	19920106	Plutonium-238	11.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802187	19880218	Plutonium-238	11.0000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR325	8801301	19880130	Plutonium-238	11.0000	PCI/G		RAD	6.0	6.0	U		SCRDATA
SCR325	8801306	19880130	Plutonium-238	11.0000	PCI/G		RAD	6.0	6.0	U		SCRDATA
SCR266	8802235	19880222	Plutonium-238	10.0000	PCI/G		RAD	2.5	2.5	U		SCRDATA
SCR266	9109195	19910919	Plutonium-238	10.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR284	92011322	19920113	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92022615	19920226	Plutonium-238	10.0000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR284	92041510	19920415	Plutonium-238	10.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802105	19880210	Plutonium-238	10.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	88013010	19880130	Plutonium-238	10.0000	PCI/G		RAD	7.5	7.5	U		SCRDATA
SCR325	8801305	19880130	Plutonium-238	10.0000	PCI/G		RAD	7.5	7.5	U		SCRDATA
SCR253	9007277	19900726	Plutonium-238	9.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	9007279	19900726	Plutonium-238	9.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR253	9007281	19900728	Plutonium-238	9.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR284	92010610	19920106	Plutonium-238	9.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9204158	19920415	Plutonium-238	9.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR325	88021110	19880211	Plutonium-238	9.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR284	9201064	19920106	Plutonium-238	8.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	91123110	19911231	Plutonium-238	8.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR284	9204159	19920415	Plutonium-238	8.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	88020810	19880208	Plutonium-238	8.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802095	19880209	Plutonium-238	8.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR253	90073128	19900731	Plutonium-238	7.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR266	9109194	19910919	Plutonium-238	7.0000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR284	92011310	19920113	Plutonium-238	7.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR296	9201095	19920109	Plutonium-238	7.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
SCR334	8802189	19880218	Plutonium-238	7.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802109	19880210	Plutonium-238	7.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8802111	19880206	Plutonium-238	7.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8802062	19880206	Plutonium-238	7.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR266	9109196	19910919	Plutonium-238	6.0000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR284	9112319	19911231	Plutonium-238	6.0000	PCI/G		RAD	5.0	5.0	U		SCRDATA
SCR284	9201137	19920113	Plutonium-238	6.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR290	92012118	19920121	Plutonium-238	6.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802117	19880211	Plutonium-238	6.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR334	8802101	19880210	Plutonium-238	6.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR284	92022616	19920226	Plutonium-238	5.0000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR334	88021111	19880211	Plutonium-238	5.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8801304	19880130	Plutonium-238	5.0000	PCI/G		RAD	9.0	9.0	U		SCRDATA
SCR325	8801309	19880130	Plutonium-238	5.0000	PCI/G		RAD	9.0	9.0	U		SCRDATA
SCR396	8802237	19880223	Plutonium-238	5.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR266	9109197	19910919	Plutonium-238	4.0000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR284	9201067	19920106	Plutonium-238	4.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9201065	19920106	Plutonium-238	4.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92011311	19920113	Plutonium-238	3.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802175	19880217	Plutonium-238	3.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802188	19880218	Plutonium-238	2.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR334	8802089	19880208	Plutonium-238	2.0000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8801293	19880129	Plutonium-238	2.0000	PCI/G		RAD	5.0	5.0	U		SCRDATA
SCR284	9112316	19911231	Plutonium-238	1.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9112318	19911231	Plutonium-238	1.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92010611	19920106	Plutonium-238	1.0000	PCI/G		RAD	4.5	4.5	U		SCRDATA
SCR284	92022614	19920226	Plutonium-238	1.0000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR266	8802236	19880222	Plutonium-238	0.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR284	9201069	19920106	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9201066	19920106	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9112317	19911231	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92011312	19920113	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92011321	19920113	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9201138	19920113	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9201139	19920113	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR290	92012117	19920121	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR296	9201096	19920109	Plutonium-238	0.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802176	19880217	Plutonium-238	0.0000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR334	8802096	19880209	Plutonium-238	0.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
A1-14	2014-0005	19930831	Pyrene	720.0000	UG/KG		ORSVO	4.5	6.5	U	U	MND16

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
A1-14	2014-0005	19930831	Selenium	0.2200	MG/KG		INORG	4.5	6.5	U	UJ	MND16
A2-8	3008-0005	19930910	Selenium	0.2200	MG/KG		INORG	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Silver	1.3000	MG/KG		INORG	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Silver	1.3000	MG/KG		INORG	4.0	6.0	U	UJ	MND16
A1-14	2014-0005	19930831	Styrene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Styrene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Sulfide	10.0000	MG/KG		ANION	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Sulfide	10.0000	MG/KG		ANION	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Tetrachloroethene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Tetrachloroethene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Thallium	2.2000	MG/KG		INORG	4.5	6.5	U	R	MND16
A2-8	3008-0005	19930910	Thallium	2.2000	MG/KG		INORG	4.0	6.0	U	U	MND16
MND17-0555	0555-5012	19950424	Thorium-232	5.0000	PCI/G	5.0000	RAD	8.0	12.0	U		MND17
MND17-0555	0555-5001	19950424	Thorium-232	5.0000	PCI/G	5.0000	RAD	0.0	0.5	U		MND17
MND17-0555	0555-5004	19950424	Thorium-232	5.0000	PCI/G	5.0000	RAD	0.5	4.0	U		MND17
MND17-0555	0555-5008	19950424	Thorium-232	5.0000	PCI/G	5.0000	RAD	4.0	8.0	U		MND17
S0169	8424	19841101	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
S0368	6230	19840801	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
S0367	6225	19840801	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
S0366	3062	19831001	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
S0369	6229	19840801	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
S0382	3070	19831001	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
S0381	3071	19831001	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
S0380	3072	19831001	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
S0378	6262	19840801	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
S0377	6260	19840801	Thorium-232	2.0000	PCI/G	2.0000	RAD	0.0	0.0	U		RSS
SCR253	90073031	19900730	Thorium-232	1.8000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR325	8801294	19880129	Thorium-232	1.8000	PCI/G		RAD	6.0	6.0	U		SCRDATA
SCR325	8802112	19880206	Thorium-232	1.8000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR253	90073032	19900730	Thorium-232	1.7000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR266	8802233	19880222	Thorium-232	1.7000	PCI/G		RAD	1.5	1.5	U		SCRDATA
SCR284	91123110	19911231	Thorium-232	1.7000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802109	19880210	Thorium-232	1.7000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8801303	19880130	Thorium-232	1.7000	PCI/G		RAD	8.0	8.0	U		SCRDATA
SCR325	8801308	19880130	Thorium-232	1.7000	PCI/G		RAD	8.0	8.0	U		SCRDATA
SCR253	90072711	19900726	Thorium-232	1.6000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802161	19880216	Thorium-232	1.6000	PCI/G		RAD	2.5	2.5	U		SCRDATA
SCR334	8802162	19880216	Thorium-232	1.6000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802118	19880211	Thorium-232	1.6000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	88021010	19880210	Thorium-232	1.6000	PCI/G		RAD	2.0	2.0	U		SCRDATA

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
SCR325	8802119	19880211	Thorium-232	1.6000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8801302	19880130	Thorium-232	1.6000	PCI/G		RAD	7.0	7.0	U		SCRDATA
SCR325	8801307	19880130	Thorium-232	1.6000	PCI/G		RAD	7.0	7.0	U		SCRDATA
SCR253	90073033	19900730	Thorium-232	1.5000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR253	90073028	19900730	Thorium-232	1.5000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR325	8802066	19880206	Thorium-232	1.5000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR325	8802068	19880206	Thorium-232	1.5000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8802067	19880206	Thorium-232	1.5000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR396	8802238	19880223	Thorium-232	1.5000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	90073129	19900731	Thorium-232	1.4000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	88021112	19880211	Thorium-232	1.4000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802187	19880218	Thorium-232	1.4000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR325	8802111	19880206	Thorium-232	1.4000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8802062	19880206	Thorium-232	1.4000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8802064	19880206	Thorium-232	1.4000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	90073127	19900731	Thorium-232	1.3000	PCI/G		RAD	4.0	4.0	U		SCRDATA
SCR253	90073128	19900731	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR253	90073130	19900731	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR253	9007274	19900726	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR253	9007273	19900726	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR253	9007278	19900726	Thorium-232	1.3000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	90073030	19900730	Thorium-232	1.3000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802117	19880211	Thorium-232	1.3000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR334	8802092	19880209	Thorium-232	1.3000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802095	19880209	Thorium-232	1.3000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8802113	19880206	Thorium-232	1.3000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR325	8802063	19880206	Thorium-232	1.3000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR325	8802065	19880206	Thorium-232	1.3000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	88013010	19880130	Thorium-232	1.3000	PCI/G		RAD	7.5	7.5	U		SCRDATA
SCR325	8801305	19880130	Thorium-232	1.3000	PCI/G		RAD	7.5	7.5	U		SCRDATA
SCR325	8801304	19880130	Thorium-232	1.3000	PCI/G		RAD	9.0	9.0	U		SCRDATA
SCR325	8801309	19880130	Thorium-232	1.3000	PCI/G		RAD	9.0	9.0	U		SCRDATA
SCR253	90073029	19900730	Thorium-232	1.2000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR266	8802234	19880222	Thorium-232	1.2000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR284	9112317	19911231	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9201065	19920106	Thorium-232	1.2000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92022615	19920226	Thorium-232	1.2000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR334	8802188	19880218	Thorium-232	1.2000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR334	8802174	19880217	Thorium-232	1.2000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR334	8802091	19880209	Thorium-232	1.2000	PCI/G		RAD	1.0	1.0	U		SCRDATA

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
SCR325	8801293	19880129	Thorium-232	1.2000	PCI/G		RAD	5.0	5.0	U		SCRDATA
SCR325	8802061	19880206	Thorium-232	1.2000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR396	8802237	19880223	Thorium-232	1.2000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	90072710	19900726	Thorium-232	1.1000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR253	9007275	19900726	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR253	9007277	19900726	Thorium-232	1.1000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	9007276	19900726	Thorium-232	1.1000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR253	9007282	19900728	Thorium-232	1.1000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR284	9112318	19911231	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92010611	19920106	Thorium-232	1.1000	PCI/G		RAD	4.5	4.5	U		SCRDATA
SCR334	8802189	19880218	Thorium-232	1.1000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802102	19880210	Thorium-232	1.1000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802105	19880210	Thorium-232	1.1000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR325	8801291	19880129	Thorium-232	1.1000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR325	8801301	19880130	Thorium-232	1.1000	PCI/G		RAD	6.0	6.0	U		SCRDATA
SCR325	8801306	19880130	Thorium-232	1.1000	PCI/G		RAD	6.0	6.0	U		SCRDATA
SCR253	9007281	19900728	Thorium-232	1.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR253	9007284	19900728	Thorium-232	1.0000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR266	9109197	19910919	Thorium-232	1.0000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR284	9201068	19920106	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92011312	19920113	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92011322	19920113	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR290	92012115	19920121	Thorium-232	1.0000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802171	19880217	Thorium-232	1.0000	PCI/G		RAD	1.5	1.5	U		SCRDATA
SCR334	8802175	19880217	Thorium-232	1.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802172	19880217	Thorium-232	1.0000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR253	9007279	19900726	Thorium-232	0.9000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR253	9007283	19900728	Thorium-232	0.9000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR266	8802235	19880222	Thorium-232	0.9000	PCI/G		RAD	2.5	2.5	U		SCRDATA
SCR284	92010610	19920106	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9201137	19920113	Thorium-232	0.9000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802176	19880217	Thorium-232	0.9000	PCI/G		RAD	3.0	3.0	U		SCRDATA
SCR334	8802178	19880217	Thorium-232	0.9000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802101	19880210	Thorium-232	0.9000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR284	9201069	19920106	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92011321	19920113	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9201139	19920113	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR296	9201095	19920109	Thorium-232	0.8000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	88021111	19880211	Thorium-232	0.8000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR334	8802177	19880217	Thorium-232	0.8000	PCI/G		RAD	1.0	1.0	U		SCRDATA

Location_nam	Sample_id	Collection_	Value_name	Measured_valu	Value_un	Detection	Chem_cl	Start_	End_	Lab_	Data	Project_cod
SCR266	8802236	19880222	Thorium-232	0.7000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR266	9109195	19910919	Thorium-232	0.7000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR284	9201066	19920106	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9112316	19911231	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9112319	19911231	Thorium-232	0.7000	PCI/G		RAD	5.0	5.0	U		SCRDATA
SCR284	9201064	19920106	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92011310	19920113	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92022616	19920226	Thorium-232	0.7000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR290	92012116	19920121	Thorium-232	0.7000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802173	19880217	Thorium-232	0.7000	PCI/G		RAD	1.5	1.5	U		SCRDATA
SCR266	9109196	19910919	Thorium-232	0.6000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR284	9201067	19920106	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9201138	19920113	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92022614	19920226	Thorium-232	0.6000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR284	9204159	19920415	Thorium-232	0.6000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	8802106	19880210	Thorium-232	0.6000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802096	19880209	Thorium-232	0.6000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR266	9109194	19910919	Thorium-232	0.5000	PCI/G		RAD	0.5	0.5	U		SCRDATA
SCR284	92011311	19920113	Thorium-232	0.5000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	92041510	19920415	Thorium-232	0.5000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR296	9201096	19920109	Thorium-232	0.5000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR334	88020810	19880208	Thorium-232	0.5000	PCI/G		RAD	2.0	2.0	U		SCRDATA
SCR334	8802089	19880208	Thorium-232	0.5000	PCI/G		RAD	1.0	1.0	U		SCRDATA
SCR290	92012117	19920121	Thorium-232	0.4000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR290	92012118	19920121	Thorium-232	0.4000	PCI/G		RAD	0.0	0.0	U		SCRDATA
SCR284	9204158	19920415	Thorium-232	0.3000	PCI/G		RAD	0.0	0.0	U		SCRDATA
A1-14	2014-0005	19930831	Toluene	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Toluene	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
4027	4027-0005.0	19940421	Total VOC's	1607.0000	PPB	1607.0000	ORVOA	5.0	5.0		U	SVROU2
A1-14	2014-0005	19930831	Trichloroethylene (TCE)	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Trichloroethylene (TCE)	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
4027	4027-0005.0	19940421	Trichlorofluoromethane	1607.0000	PPB	1607.0000	ORVOA	5.0	5.0		U	SVROU2
A1-14	2014-0005	19930831	Vinyl Chloride	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Vinyl Chloride	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16
A1-14	2014-0005	19930831	Xylenes, Total	11.0000	UG/KG		ORVOA	4.5	6.5	U	U	MND16
A2-8	3008-0005	19930910	Xylenes, Total	11.0000	UG/KG		ORVOA	4.0	6.0	U	U	MND16

Appendix L

Soil Sampling, Vicinity

LABORATORY DATA QUALIFIERS (LABQUAL)

The following qualifiers will be applied to the organic analysis results by the laboratory in accordance with CLP SOW direction:

ORGANICS

U	Indicates compound was analyzed for but not detected. The associated sample quantitation limit will be the CRQL, corrected for dilution and for percent moisture.
J	Indicates an estimated value. This flag is used under the following circumstances: 1) when estimating a concentration for tentatively identified compounds (TICs) assuming a 1:1 response, 2) when the qualitative data indicated the presence of a compound that meets the volatile, semivolatile, and pesticide/Aroclor identification criteria, and the result is less than the CRQL but greater than zero.
N	Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where identification is based on a mass spectral library search.
P	Used for pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns.
C	Applies to pesticide results where the identification has been confirmed by GC/MS.
B	Used when the analyte is found in the associated blank as well as in the sample. This flag must be used for a TIC as well as for a positively identified target compound.
E	Identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis.
D	Identifies all compounds identified in an analysis at a secondary dilution factor.
A	Indicates that a TIC is a suspected aldol-condensation product.

INORGANICS

B	Indicates that the reported value was obtained from a reading that was less than the CRDL but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates that the analyte was analyzed for but not detected.
E	Indicates the reported value is estimated because of the presence of interferences.
M	Duplicate injection precision was not met.
N	Spiked sample recovery not within control limits.
S	Reported value was determined by the Method of Standard Additions (MSA).
W	Post-digestion spike for Furnace AA analysis is out of control limits, while sample absorbency is less than 50% of spike absorbency.
•	Duplicate analysis not within control limits.
+	Correlation coefficient for the MSA is less than 0.995.

DATA QUALIFIER CODES (DATAQUAL)

ORGANICS AND INORGANICS

U	The material was analyzed for, but was not detected. The associated numerical value is the sample quantitation limit.
J	The associated numerical value is an estimated quantity.
R	The data are unusable (compound may or may not be present). Resampling and reanalysis is necessary for verification.
N	Presumptive evidence of the presence of the material.
NJ	Presumptive evidence of the presence of the material at an estimated quantity.
UJ	The material was analyzed for, but was not detected. The sample quantitation limit is an estimated quantity.

SUB-QUALIFIER CODES

ORGANICS

D	Duplicates
B	Qualified due to blank
C	Qualified due to calibration
H	Holding time exceeded
K	Qualified due to surrogate recovery
L	Qualified due to Laboratory Control Sample
S	Qualified due to matrix spike recovery
I	Qualified due to internal standard
N	Tentative identification (only for TICs)
P	Pesticide/PCB results have >25 percent difference on two different columns
+	Positive bias (added after subqualifier)
-	Negative bias (added after subqualifier)

INORGANICS

D	Duplicates
B	Qualified due to blank
C	Qualified due to calibration
H	Holding time exceeded
L	Qualified due to Laboratory Control Sample
S	Qualified due to matrix spike recovery
I	Qualified due to interference
+	Positive bias (added after subqualifier)
-	Negative bias (added after subqualifier)
Examples of final qualification might be J-C, UJ-S(+), UJ-BC(-), etc.	

The subqualifiers have been included to clarify any reports you may use. The subqualifiers have been captured when it was included in the electronic data submitted by the contractor. Most of the data in MEIMS does not include them.

The above data was extracted from the OU9 Site Wide Quality Assurance Project Plan, pages 9-16 and Appendix H page 3-1. It was updated from the Methods Compendium.

Comparisons for Soil Analytical Results

10-6 Risk-Based Guideline Values			
107-06-2	1,2-Dichloroethane	3.20E+00	MG/KG
118-96-7	2,4,6-Trinitrotoluene	1.91E+02	MG/KG
72-55-9	4,4'-DDE	9.00E+00	MG/KG
50-29-3	4,4'-DDT	9.00E+00	MG/KG
309-00-2	Aldrin	1.80E-01	MG/KG
5103-71-9	Alpha Chlordane	8.50E+00	MG/KG
12672-29-6	Aroclor-1248	3.85E-01	MG/KG
11096-82-5	Aroclor-1260	3.85E-01	MG/KG
7440-38-2	Arsenic	1.20E+03	MG/KG
71-43-2	Benzene	8.90E+00	MG/KG
56-55-3	Benzo(a)anthracene	4.10E+00	MG/KG
50-32-8	Benzo(a)pyrene	4.10E-01	MG/KG
205-99-2	Benzo(b)fluoranthene	4.10E+00	MG/KG
207-08-9	Benzo(k)fluoranthene	4.10E+01	MG/KG
7440-41-7	Beryllium	7.00E-01	MG/KG
319-85-7	Beta-BHC	1.65E+00	MG/KG
117-81-7	Bis(2-ethylhexyl)phthalate	2.15E+02	MG/KG
75-27-4	Bromodichloromethane	4.80E+01	MG/KG
75-25-2	Bromoform	3.75E+02	MG/KG
7440-43-9	Cadmium	1.00E+04	MG/KG
56-23-5	Carbon Tetrachloride	4.60E+00	MG/KG
67-66-3	Chloroform	3.10E+00	MG/KG
7440-47-3	Chromium	1.50E+03	MG/KG
218-01-9	Chrysene	4.10E+02	MG/KG
53-70-3	Dibenz(a,h)anthracene	4.10E-01	MG/KG
124-48-1	Dibromochloromethane	3.55E+01	MG/KG
75-09-2	Dichloromethane	3.95E+02	MG/KG
60-57-1	Dieldrin	1.85E-01	MG/KG
5103-74-2	Gamma Chlordane	8.50E+00	MG/KG
58-89-9	Gamma-BHC (Lindane)	2.30E+00	MG/KG
76-44-8	Heptachlor	0.66	MG/KG
1024-57-3	Heptachlor Epoxide	0.33	MG/KG
193-39-5	Indeno(1,2,3-cd)pyrene	4.10E+00	MG/KG
78-59-1	Isophorone	3.15E+03	MG/KG
86-30-6	N-Nitrosodiphenylamine	6.00E+02	MG/KG
87-86-5	Pentachlorophenol	2.50E+01	MG/KG
121-82-4	RDX	2.70E+01	MG/KG
79-01-6	Trichloroethene	4.10E+01	MG/KG
7440-41-7	1,1,1,2-Tetrachloroethane	1.10E-02	MG/L
7440-38-2	1,1,2,2-Tetrachloroethane	1.40E-03	MG/L
7440-34-8	Actinium-227	4.50E-01	PCI/G
14596-10-2	Americium-241	6.30E+00	PCI/G
13982-38-2	Bismuth-207	1.60E-01	PCI/G
10045-97-3	Cesium-137	3.40E-01	PCI/G
10198-40-0	Cobalt-60	7.00E-02	PCI/G
14255-04-0	Lead-210	6.20E-01	PCI/G

13981-16-3	Plutonium-238	6.10E+00	PCI/G
15117-48-3	Plutonium-239	5.50E+00	PCI/G
PU239/240	Plutonium-240	6.10E+00	PCI/G
13966-00-2	Potassium-40	1.42E+00	PCI/G
14331-85-2	Protactinium-231	3.90E-01	PCI/G
13982-63-3	Radium-226	9.00E-02	PCI/G
10098-97-2	Strontium-90	9.40E+00	PCI/G
14274-82-9	Thorium-228	1.10E-01	PCI/G
14269-63-7	Thorium-230	9.00E-02	PCI/G
7440-29-1	Thorium-232	7.00E-02	PCI/G
10028-17-8	Tritium	2.35E+04	PCI/G
13968-55-3	Uranium-233	9.68E-01	PCI/G
13966-29-5	Uranium-234	1.05E+01	PCI/G
15117-96-1	Uranium-235	1.60E+00	PCI/G
24678-82-8	Uranium-238	1.00E-01	PCI/G
14596-10-2	Americium-241	4.90E-01	PCI/L
14331-79-4	Bismuth-210	2.20E+01	PCI/L
15262-20-1	Radium-228	3.30E-01	PCI/L
13967-73-2	Strontium-85	1.10E+02	PCI/L
10098-97-2	Strontium-90	3.90E+00	PCI/L
15623-47-9	Thorium-227	4.00E+00	PCI/L
14274-82-9	Thorium-228	6.90E-01	PCI/L
14269-63-7	Thorium-230	1.20E-01	PCI/L
7440-29-1	Thorium-232	3.10E-01	PCI/L
24678-82-8	Uranium-238+D	2.02E-01	PCI/L
	OU9 Soil Background Values		
72-54-8	4,4'-DDD	4.2	MG/KG
72-55-9	4,4'-DDE	4.3	MG/KG
50-29-3	4,4'-DDT	13	MG/KG
309-00-2	Aldrin	ND	MG/KG
5103-71-9	Alpha Chlordane	ND	MG/KG
319-84-6	Alpha-BHC	ND	MG/KG
7429-90-5	Aluminum	19000	MG/KG
14596-10-2	Americium-241	ND	MG/KG
12672-29-6	Aroclor-1248	ND	MG/KG
11097-69-1	Aroclor-1254	58	MG/KG
11096-82-5	Aroclor-1260	ND	MG/KG
7440-38-2	Arsenic	8.6	MG/KG
7440-39-3	Barium	180	MG/KG
7440-41-7	Beryllium	1.3	MG/KG
319-85-7	Beta-BHC	ND	MG/KG
7440-69-9	Bismuth	ND	MG/KG
13982-38-2	Bismuth-207	ND	MG/KG
14331-79-4	Bismuth-210m	ND	MG/KG
7440-43-9	Cadmium	2.1	MG/KG
7440-70-2	Calcium	310000	MG/KG
7440-47-3	Chromium	20	MG/KG
7440-48-4	Cobalt	19	MG/KG

7440-50-8	Copper	26	MG/KG
57-12-5	Cyanide	ND	MG/KG
60-57-1	Dieldrin	ND	MG/KG
959-98-8	Endosulfan I	ND	MG/KG
1031-07-8	Endosulfan Sulfate	ND	MG/KG
72-20-8	Endrin	ND	MG/KG
7421-93-4	Endrin Aldehyde	ND	MG/KG
53494-70-5	Endrin Ketone	ND	MG/KG
5103-74-2	Gamma Chlordane	ND	MG/KG
58-89-9	Gamma-BHC (Lindane)	ND	MG/KG
76-44-8	Heptachlor	ND	MG/KG
1024-57-3	Heptachlor Epoxide	ND	MG/KG
77-47-4	Hexachlorocyclopentadiene	ND	MG/KG
7439-89-6	Iron	35000	MG/KG
7439-92-1	Lead	48	MG/KG
7439-93-2	Lithium	26	MG/KG
7439-95-4	Magnesium	40000	MG/KG
7439-96-5	Manganese	1400	MG/KG
7439-97-6	Mercury	ND	MG/KG
72-43-5	Methoxychlor	30	MG/KG
7439-98-7	Molybdenum	27	MG/KG
7440-02-0	Nickel	32	MG/KG
7440-09-7	Potassium	1900	MG/KG
7782-49-2	Selenium	ND	MG/KG
7440-22-4	Silver	1.7	MG/KG
7440-23-5	Sodium	240	MG/KG
7440-28-0	Thallium	0.46	MG/KG
7440-31-5	Tin	20	MG/KG
7440-62-2	Vanadium	25	MG/KG
7440-66-6	Zinc	140	MG/KG
7440-34-8	Actinium-227	1.10E-01	PCI/G
10045-97-3	Cesium-137	0.42	PCI/G
14255-04-0	Lead-210	1.20E+00	PCI/G
13981-16-3	Plutonium-238	0.13	PCI/G
15117-48-3	Plutonium-239	1.80E-01	PCI/G
PU239/240	Plutonium-240	1.80E-01	PCI/G
13966-00-2	Potassium-40	37	PCI/G
14331-85-2	Protactinium-231	1.10E-01	PCI/G
13982-63-3	Radium-226	2	PCI/G
10098-97-2	Strontium-90	0.72	PCI/G
14274-82-9	Thorium-228	1.5	PCI/G
14269-63-7	Thorium-230	1.9	PCI/G
7440-29-1	Thorium-232	1.4	PCI/G
10028-17-8	Tritium	1.6	PCI/G
13966-29-5	Uranium-234	1.1	PCI/G
15117-96-1	Uranium-235	0.11	PCI/G
24678-82-8	Uranium-238	1.2	PCI/G

Core Team Determined Screening Levels			
7439-92-1	Lead	400	MG/KG
7440-34-8	Actinium-227	5.60E-01	PCI/G
14596-10-2	Americium-241	6.3	PCI/G
13982-38-2	Bismuth-207	0.175	PCI/G
10045-97-3	Cesium-137	0.76	PCI/G
10198-40-0	Cobalt-60	7.00E-02	PCI/G
14255-04-0	Lead-210	1.80E+00	PCI/G
13981-16-3	Plutonium-238	55	PCI/G
14331-85-2	Protactinium-231	4.00E+00	PCI/G
13982-63-3	Radium-226	2.1	PCI/G
14274-82-9	Thorium-228	1.61	PCI/G
14269-63-7	Thorium-230	2	PCI/G
7440-29-1	Thorium-232	1.47	PCI/G
15117-96-1	Uranium-235	1.7	PCI/G
24678-82-8	Uranium-238+D	1.3	PCI/G
	Maximum Contaminant Level for Drinking Water		
71-55-6	1,1,1-Trichloroethane	0.2	MG/L
79-00-5	1,1,2-Trichloroethane	0.005	MG/L
75-35-4	1,1-Dichloroethene	0.007	MG/L
120-82-1	1,2,4-Trichlorobenzene	0.07	MG/L
156-59-2	1,2-cis-Dichloroethene	0.07	MG/L
106-93-4	1,2-Dibromoethane	0.00005	MG/L
95-50-1	1,2-Dichlorobenzene	0.6	MG/L
107-06-2	1,2-Dichloroethane	0.005	MG/L
78-87-5	1,2-Dichloropropane	0.005	MG/L
156-60-5	1,2-trans-Dichloroethene	0.01	MG/L
106-46-7	1,4-Dichlorobenzene	0.075	MG/L
95-95-4	2,4,5-Trichlorophenol	0.05	MG/L
94-75-7	2,4-D	0.07	MG/L
7440-36-0	Antimony	0.0006	MG/L
7440-38-2	Arsenic	0.05	MG/L
7440-39-3	Barium	2	MG/L
71-43-2	Benzene	0.005	MG/L
50-32-8	Benzo(a)pyrene	0.002	MG/L
7440-41-7	Beryllium	0.004	MG/L
117-81-7	bis(2-ethylhexyl)phthalate	0.006	MG/L
75-27-4	Bromodichloromethane	0.008	MG/L
75-25-2	Bromoform	0.008	MG/L
7440-43-9	Cadmium	0.005	MG/L
56-23-5	Carbon Tetrachloride	0.005	MG/L
57-74-9	Chlordane	0.002	MG/L
108-90-7	Chlorobenzene	0.1	MG/L
67-66-3	Chloroform	0.008	MG/L
7440-47-3	Chromium	0.1	MG/L
7440-50-8	Copper	1.3	MG/L
57-12-5	Cyanide	0.2	MG/L
96-12-8	Dibromochloropropane	0.0002	MG/L

75-09-2	Dichloromethane (Methylene Chloride)	0.005	MG/L
88-85-7	Dinoseb	0.007	MG/L
1746-01-6	Dioxin	0.00000003	MG/L
72-20-8	Endrin	0.002	MG/L
100-41-4	Ethylbenzene	0.07	MG/L
16984-48-8	Flouride	4	MG/L
58-89-9	Gamma-BHC (Lindane)	0.0002	MG/L
76-44-8	Heptachlor	0.0004	MG/L
1024-57-3	Heptachlor Epoxide	0.0002	MG/L
118-74-1	Hexachlorobenzene	0.001	MG/L
77-47-4	Hexachlorocyclopentadiene	0.05	MG/L
7439-92-1	Lead	0.015	MG/L
7439-97-6	Mercury	0.002	MG/L
72-43-5	Methoxychlor	0.04	MG/L
7440-02-0	Nickel	0.1	MG/L
NO3	Nitrate	10	MG/L
14797-65-0	Nitrite	1	MG/L
87-86-5	Pentachlorophenol	0.001	MG/L
7782-49-2	Selenium	0.05	MG/L
100-42-5	Styrene	0.1	MG/L
127-18-4	Tetrachloroethene	0.005	MG/L
7440-28-0	Thallium	0.002	MG/L
108-88-3	Toluene	1	MG/L
8001-35-2	Toxaphene	0.003	MG/L
79-01-6	Trichloroethene	0.005	MG/L
75-01-4	Vinyl Chloride	0.002	MG/L
1330-20-7	Xylenes, Total	10	MG/L
7440-34-8	Actinium-227	0.4	PCI/L
14596-10-2	Americium-241	1.2	PCI/L
13982-38-2	Bismuth-207	1200	PCI/L
10045-97-3	Cesium-137	120	PCI/L
10198-40-0	Cobalt-60	400	PCI/L
13981-16-3	Plutonium-238	1.6	PCI/L
13982-63-3	Radium-226	4	PCI/L
10098-97-2	Strontium-90	40	PCI/L
14274-82-9	Thorium-228	16	PCI/L
14269-63-7	Thorium-230	12	PCI/L
7440-29-1	Thorium-232	2	PCI/L
10028-17-8	Tritium	20000	PCI/L
13968-55-3	Uranium-233	20	PCI/L
13966-29-5	Uranium-234	20	PCI/L
15117-96-1	Uranium-235	24	PCI/L
24678-82-8	Uranium-238	24	PCI/L
	Guideline Values based on the Hazard Index		
76-13-1	1,1,2-Trichloro-1,2,2triflouroethane	7.00E+04	MG/KG
75-34-3	1,1-Dichloroethane	7.80E+00	MG/KG
120-82-1	1,2,4-Trichlorobenzene	2.04E+04	MG/KG
156-59-2	1,2-cis-Dichloroethene	2.13E+03	MG/KG

156-60-5	1,2-trans-Dichloroethene	4.30E+03	MG/KG
99-65-0	1,3-Dinitrobenzene	2.00E+02	MG/KG
118-96-7	2,4,6-Trinitrotoluene	1.00E+03	MG/KG
78-93-3	2-Butanone	9.30E+03	MG/KG
95-57-8	2-Chlorophenol	1.06E+03	MG/KG
108-10-1	2-Methyl-4-pentanone	7.00E+02	MG/KG
50-29-3	4,4'-DDT	1.10E+02	MG/KG
106-44-5	4-Methylphenol	1.10E+03	MG/KG
67-64-1	Acetone	2.10E+04	MG/KG
309-00-2	Aldrin	6.4	MG/KG
5103-71-9	Alpha Chlordane	110	MG/KG
7429-90-5	Aluminum	210000	MG/KG
120-12-7	Anthracene	6.40E+04	MG/KG
7440-36-0	Antimony	8.50E+01	MG/KG
11097-69-1	Aroclor-1254	4.30E+00	MG/KG
7440-38-2	Arsenic	6.40E+01	MG/KG
7440-39-3	Barium	1.50E+04	MG/KG
65-85-0	Benzoic Acid	8.50E+05	MG/KG
7440-41-7	Beryllium	1.10E+03	MG/KG
117-81-7	Bis(2-ethylhexyl)phthalate	4.30E+03	MG/KG
75-27-4	Bromodichloromethane	4.30E+03	MG/KG
75-25-2	Bromoform	4.30E+03	MG/KG
85-68-7	Butyl Benzyl Phthalate	4.30E+04	MG/KG
7440-43-9	Cadmium	2.10E+02	MG/KG
75-15-0	Carbon Disulfide	2.80E+02	MG/KG
56-23-5	Carbon Tetrachloride	1.50E+02	MG/KG
75-00-3	Chloroethane	1.60E+02	MG/KG
67-66-3	Chloroform	2.10E+03	MG/KG
7440-47-3	Chromium	1.10E+03	MG/KG
18540-29-9	Chromium-VI	6.39E+02	MG/KG
7440-50-8	Copper	7.90E+03	MG/KG
57-12-5	Cyanide	4.30E+03	MG/KG
53-70-3	Dibenz(a,h)anthracene	4.08E-02	MG/KG
124-48-1	Dibromochloromethane	4.30E+03	MG/KG
75-09-2	Dichloromethane	1.00E+03	MG/KG
60-57-1	Dieldrin	1.10E+01	MG/KG
84-74-2	Di-n-butyl Phthalate	2.10E+04	MG/KG
117-84-0	Di-n-octyl Phthalate	4.30E+03	MG/KG
959-98-8	Endosulfan I	1300	MG/KG
33213-65-9	Endosulfan II	1300	MG/KG
100-41-4	Ethylbenzene	4.80E-01	MG/KG
86-73-7	Flourene	8.50E+03	MG/KG
206-44-0	Fluoranthene	8.50E+03	MG/KG
5103-74-2	Gamma Chlordane	110	MG/KG
58-89-9	Gamma-BHC (Lindane)	64	MG/KG
76-44-8	Heptachlor	110	MG/KG
1024-57-3	Heptachlor Epoxide	2.8	MG/KG
110-54-3	Hexane	9.10E+01	MG/KG
193-39-5	Indeno(1,2,3-cd)pyrene	4.08E-01	MG/KG

78-59-1	Isophorone	4.30E+04	MG/KG
7439-96-5	Manganese	2.70E+04	MG/KG
7439-97-6	Mercury	6.40E+01	MG/KG
72-43-5	Methoxychlor	1100	MG/KG
7440-02-0	Nickel	4.30E+03	MG/KG
87-86-5	Pentachlorophenol	6.40E+03	MG/KG
108-95-2	Phenol	1.30E+05	MG/KG
129-00-0	Pyrene	6.40E+03	MG/KG
7782-49-2	Selenium	1100	MG/KG
7440-22-4	Silver	1.10E+03	MG/KG
127-18-4	Tetrachloroethene	2.10E+03	MG/KG
7440-28-0	Thallium	17	MG/KG
7440-31-5	Tin	130000	MG/KG
108-88-3	Toluene	2.50E+02	MG/KG
75-69-4	Trichlorofluoromethane	7.30E+02	MG/KG
7440-62-2	Vanadium	1.50E+03	MG/KG
1330-20-7	Xylenes, Total	4.30E+05	MG/KG
7440-66-6	Zinc	6.40E+04	MG/KG
7440-41-7	1,1,1,2-Tetrachloroethane	2.90E-01	MG/L
7440-38-2	1,1,2,2-Tetrachloroethane	2.50E-01	MG/L
71-55-6	1,1,1-Trichloroethane	1.80E+00	MG/L
76-13-1	1,1,2-Trichloro-1,2,2triflouroethane	2.50E+03	MG/L
7429-90-5	Aluminum	100	MG/L
7440-42-8	Boron	9.00E+00	MG/L
18540-29-9	Chromium-VI	3.00E-01	MG/L
7440-48-4	Cobalt	6	MG/L
7440-50-8	Copper	4.00E+00	MG/L
7439-98-7	Molybdenum	0.5	MG/L
7782-49-2	Selenium	0.5	MG/L
7440-28-0	Thallium	0.008	MG/L
7440-31-5	Tin	60	MG/L
2691-41-0	HMX	1.10E+04	UG/KG
121-82-4	RDX	6.40E+04	UG/KG

Appendix M

Occurrence Reports

This section provides an overview of the operational history of the T Building with regards to safety-related occurrences. A total of 78 occurrences have been reported to DOE since the reporting system was initiated at MCP in 1991. Fifteen of the occurrences were classified as "unusual" and the remainder were "off-normal" events.

OCCURRENCE REPORTS

This section provides an overview of the operational history of the T Building with regards to safety-related occurrences. A total of 78 occurrences have been reported to DOE since the reporting system was initiated at MCP in 1991. Fifteen of the occurrences were determined to be "unusual" and the remainder were "off-normal" events.

Unusual category reports for T Building:

April 6, 1998: Demolition Activities Resulting in Unanalyzed Seismic Event

A storage magazine, located directly above T Building, was being demolished in January 1998 using a hydraulic jackhammer. The vibrations produced were transmitted into the T Building structure and internal systems such as TERF. When the vibrations were felt by T Building management, the demolition activities were stopped. The effects of the vibrations were investigated in a USQD. The effects of the vibrations were found to be minimal. There was no (direct) disruption in T Building or TERF operations, no facility or systems damage, and no personnel injuries. However, the failure frequency of equipment important to safety may have been increased and the activity was outside the AB for T Building. As such, the USQD was determined to be a USQ (positive finding) (BWO01-1998-06).

February 16, 1998: Violation of Operational Controls for Tritium Monitoring Systems

The data-logging computer for radiation monitoring systems was found off-line. The computer was immediately rebooted and the system restored to service. The system was determined to have been off-line since approximately 2317 hours on February 7, 1998. A critique of the event determined that the operation of the "data gathering system" was a required daily surveillance of the OCs manual that was implemented on December 5, 1997. This OC is no longer required.

February 4, 1998: Violation of Operational Controls for Alpha Continuous Air Monitoring (CAMs)

Alpha CAMs were removed from service. The removal of the CAMs was reviewed using the USQ process. The USQ determination was negative based upon current conditions within the facility; however, it was not recognized that this change in condition constituted a change to new OCs that were implemented on December 5, 1997. This OC was reworded to allow removal of unwarranted systems.

August 12, 1997: Violation of T Building Final Safety Analysis Report (FSAR)

After the Radiological Control Technicians (RCTs) moved out of their office in Room T-38, the operations management failed to recognize the need to man Room T-38 until the Contractor-Operational Readiness Review (C-ORR) for TERF. At that time, a technician was assigned to perform those duties. However, when that person went on extended leave, the room was no longer manned full time due to limited resources. Operations management again failed to man Room T-38 full time as stated by the FSAR. A new interim authorization basis (BIO) that was submitted to DOE for approval in April 1997 no longer states that Room T-38 is manned. As corrective actions, a long-term plan for manning Room T-38 was developed and implemented and a backward looking USQ on the operations without manning Room T-38 full time was performed.

March 20-21, 1995: Discovery of Limiting Condition for Operation (LCO) Violations

As a result of the SW/R Complex LCO non-compliance findings, surveillance requirements for T Building were reviewed. Six instances of non-compliance were related to: (1) function test frequency for criticality monitors and alarms, (2) smoke detector test frequency for "alarm by zone", (3) "wet alarm check valves" test frequency for fire suppression system, (4) Nuclear Criticality Safety training requirements for all employees as it relates to emergency procedures and those employees who handle, store, or transport fissile materials. Appropriate corrective actions for each noncompliance were identified and completed.

September 27, 1994: Activation of ECS

During maintenance work to replace a thermocouple that was screw-mounted in a thermal well in a doubly contained tritium storage tank, the room tritium alarm sounded and the tritium concentration level in the room activated the ECS. The thermocouple thermal flange was replaced and secured as soon as possible. No personnel contamination nor personnel uptakes occurred; however, there was a release to the environment of less than 0.5 Ci of tritium. The approved procedure was found to be flawed and was revised to disallow maintenance when the tank contained tritium inventory.

February 14, 1994: Activation of ECS

The activation of the ECS was caused by the release of several very small amounts of tritium (0.04 Ci total) over short periods of time during a venting operation for a tritiated water storage tank into a closed piping system. The setpoint for the activation of the ECS in the T-63 laboratory was found to be much lower than it is in other tritium areas in the T Building. The ECS activation setpoint for T-63 was raised to 5,000 $\mu Ci/m^3$ on the duct level (no room level activation). There were no personnel exposures or contamination, but 0.04 Ci of tritium were released to the atmosphere.

September 28, 1993 : Activation of ECS

The ECS was activated during a calibration of the tritium monitoring system. The ECS monitor was accidentally bumped during the calibration and this caused an electrical spike that activated the ECS. Calibration procedures were modified to avert future bumping of the monitor. No environmental release or personnel exposures resulted.

July 10, 1993: Activation of ECS

The activation of ECS resulted from an ambient electrical disturbance because of: a) the local weather conditions, i.e., a local "lightning storm"; b) there were no operators conducting any processes in the potentially affected T Building areas; and c) the tritium processing areas were in the weekend shutdown condition. Installation of an uninterruptible power source (UPS) for the tritium ionization monitors was completed on April 21, 1994 to overcome the electrical power transients.

April 25, 1993: Activation of ECS

The activation of ECS was again caused by an ambient electrical disturbance because of the local weather conditions, i.e., a local "lightning storm," like the incident that occurred on July 16, 1992. There were no environmental, safety, or productivity impacts from the occurrence.

March 7, 1993: Activation of ECS

A failure of the power supply for the ECS tritium monitor caused the system to activate. The ECS was deactivated and electrical repairs made to the monitor. There were no environmental releases or personnel exposures caused by the incident.

September 18, 1992: Inadvertent Activation of ECS

The direct cause for the inadvertent activation of ECS was determined to be the high humidity content of the air introduced into the building at the beginning of a semiannual preventive maintenance operation for the air conditioning system. The moisture in the air condensed inside the tritium air monitors caused them to read very erratically and this triggered the activation of the ECS.

July 16, 1992: Activation of ECS

The ECS was activated due to an ambient electrical disturbance because of the local weather condition, a "lightning storm". The electrical system design deficiency in the tritium ionization monitors was found to be the source of the problem and was to be corrected by installing a commercially available UPS that is not affected by electrical transients. There were no environmental releases nor personnel exposures caused by the incident.

March 27, 1991: Missing Acorn

During a routine inventory of the T-36 vault, a classified (SRD) Acorn assembly was determined to be missing. The missing Acorn was subsequently found in the receiving area of the machine shop in a transport container thought to be empty. It was determined that the loss of control of the Acorn assembly was caused by failure of the custodian of the part to follow prescribed accountability procedures. The employee was formally reprimanded and the need for more formality of operation was reemphasized.

November 16, 1990: Curtailment of Tritium Operations due to disablement of the ECS

T Building tritium processing was curtailed by Contractor initiative after it was discovered that the emergency containment exhaust duct was blocked by the presence of water in the duct tunnel. An estimated 12,000 gal of water was involved and the water was slightly contaminated at the level of 6 μCi/L of tritium. Less than 2 μCi/L of water is the DOE discharge guideline. No environmental release, personnel exposure of injury occurred. The fractured sewer line that contributed to the accumulation of water in the duct tunnel was replaced and the underground vent hole in the head house was plugged with concrete.

Off-normal occurrences that occurred after April 1998 through October 2002 are summarized in the following table.

Off-Normal Occurrences for T Building

Occurrence Number	Date	Description	Impact on Safety-Related System
BWO01-1998-007	5/13/98	Redundant electrical power feed for TERF wired incorrectly.	None. Event involved redundant power feed and did not have a direct impact on TERF operability.
BWO01-1998-008	6/4/98	Tritium monitor signal lead severed during safe-shutdown activities.	None. Tritium stack monitors are not safety-related systems.
BWO01-1998-009	6/16/98	Unauthorized modification of room tritium monitoring system.	None. The room was in safe-shutdown and the monitors were no longer required.
BWO01-1998-011	9/29/98	Tritium inventory difference.	None. The amount of the inventory error was within the inventory limits established in the BIO.
BWO01-1999-0011	6/15/99	Tritium contamination discovered on worker's shoe.	None. Event involved accidental removal of a shoe cover.
BWO01-1999-0017	8/25/99	Unsatisfactory testing for OCs surveillance test.	Event involved inadequate definition of OCs and surveillance requirements. Corrective action was taken as a result of a Red Team review (see Section 4.2).
BWO01-1999-0021	10/2/99	Smoke alarm activated (T Building ventilation system).	None. Event involved bearing failure in a ventilation system blower. System was shutdown until repairs could be made. Areas that did not meet pressure differential requirements were placed in minimum safe condition.
BWO01-2000-0002	3/22/00	Failure to perform LCO Surveillance Within Specified Frequency	Event involved failure to perform the required testing of the TERF combustible gas monitor with the weekly time limit specified for the surveillance testing. Corrective actions were taken to prevent this from occurring in the future.
BWO01-2000-0001	3/09/00	Suspect and Counterfeit Bolts Discovered on spare TERF Compressor	A suspect counterfeit bolt was discovered on the TERF Compressor during an inspection for such items. The bolt was replaced.
BWO01-2000-0004	3/30/00	Loss of Polonium-210 Sealed Sources	Two low level commercially available sealed were not accounted for during an inventory. Source were disposed of during safe shutdown cleanup activities.
BWO01-2000-0007	5/25/00	Radioactive Contamination Discovered Outside a Controlled Area in Building 61	Fixed plutonium 238 was discovered on a voltmeter in Building 61. The meter had been sent to Building 61 from T Building. The voltmeter was disposed of in LSA waste.

Off-Normal Occurrences for T Building

Occurrence Number	Date	Description	Impact on Safety-Related System
BWO01-2000-0011	8/08/00	Degradation of Technical (T) Building Exhaust System Operability due to East Stack Fan Shutdown	Due to miscommunication personnel in T Building believed that the East Stack Fan was operating during the daily check of the exhaust fans when it was not. An additional indicator of operability was installed on the East Stack Fan Motor.
BWO01-2000-0017	11/27/00	Smoke Alarm Actuated in T Building	Smoke Detectors actuated from smoke resulting from burning grease on S-11 Air Supply Unit due to hot bearing. S-11 blower was replaced with a new unit.
BWO01-2001-0002	4/26/01	Low Level Contamination Discovered Outside a Controlled Area.	Low level Plutonium 238 was discovered on an electrical motor mounting base which had been removed from the T Building West Exhaust Stack Fan House. The mounting base was disposed of in LSA waste.
BWO01-2001-0007	8/23/01	Actuation of High Alarm on Tritium Monitoring System in T Building Room 59.	The high-level room alarm was actuated in room 59 when workers were removing a helium line special precautions were not taken because tritium was not expected to be in the line. There were no measurable personnel uptakes from the event. Corrective Actions were taken to prevent this from reoccurring.
BWO01-2001-0008	9/26/01	Tritium Contamination Discovered on Workers Hands	Worker was discovered to have tritium contamination on his hands after working in T-50. No source of the contamination was identified and since there was no exposure associated with this event, no further investigation was performed.
BWO01-2002-0001	2/7/02	Skin & Clothing Contamination Discovered Upon Exiting Tritium Areas (Roll-up)	Two events occurred where personnel exiting High Contamination Areas were discovered to have low levels of tritium on their skin and/or clothes. A new procedure was put into place that prevents events like this from having to be reported.
BWO01-2002-0002	2/16/02	Contaminated Lead Bricks Reported by Oak Ridge NMR	Four lead bricks in a shipment of 920 brick from T Building and Building 38 were discovered to have contamination on them when they were surveyed at Oak Ridge after being free released from Mound. Corrective Actions were taken to not free release any lead bricks from Mound in the future.

Off-Normal Occurrences for T Building

Occurrence Number	Date	Description	Impact on Safety-Related System
BWO01-2002-0005	5/31/02	Tritium Personnel Skin Contaminations (Roll-up)	Three events occurred where personnel exiting High Contamination Areas were discovered to have low levels of tritium on their skin and/or clothes. A new procedure was put into place that prevents events like this from having to be reported.
BWO01-2002-0007	7/01/02	Tritium Personnel Clothing Contamination	Worker put his foot out to catch a piece of pipe that he was removing as part of safe shutdown activities outside the east end of T Building. The contaminated pipe got tritium contamination on the workers pants leg. Corrective Actions were put into place that will prevent this from reoccurring in the future.
BWO01-2002-0008	8/28/02	Precautionary Evacuation of T Building	Building was evacuated after a pressurized argon line was cut into by a pipefitter removing inert gas lines in the crawlspace above T-227. Pipefitter did not perform LOTO as he was required to do. Pipefitter and supervision were counseled on event to prevent it from reoccurring in the future.

OH-MB-BWO-BWO01-2000-0002 Final Report

Occurrence Report

Tritium Facilities

(Name of Facility)

Tritium Activities

(Facility Function)

Mound Plant Babcock and Wilcox of Ohio, Inc.

(Laboratory, Site, or Organization)

Name: ALLISON, JERRY L
Title: TRITIUM FACILITY MANAGER **Telephone No.:** (937) 865-4533

(Facility Manager/Designee)

Name: ALLISON, JERRY L
Title: BUILDING MGR SW/R TRITIUM COMPLEX **Telephone No.:** (513) 865-4533

(Originator/Transmitter)

Name: ALLISON, JERRY L. **Date:** 05/01/2000

(Authorized Classifier (AC))

1. **Occurrence Report Number:** OH-MB-BWO-BWO01-2000-0002

   Failure to Perform LCO Surveillance Within Specified Frequency

2. **Report Type and Date:** Final

	Date	Time
Notification:	03/22/2000	15:12 (MTZ)
Initial Update:	05/01/2000	10:21 (MTZ)
Latest Update:	05/01/2000	10:21 (MTZ)
Final:	06/16/2000	06:03 (MTZ)

3. **Occurrence Category:** Off-Normal

4. **Number of Occurrences:** 1 **Original OR:**

5. **Division or Project:** BWXT of Ohio

6. Secretarial Office: EM - Environmental Management

7. System, Bldg., or Equipment: TERF Combustion Gas Monitor, T Building Room 242

8. UCNI?: No

9. Plant Area: Main Hill Area

10. Date and Time Discovered: 03/22/2000 08:00 (ETZ)

11. Date and Time Categorized: 03/22/2000 08:30 (ETZ)

12. DOE Notification:

13. Other Notifications:

Date	Time	Person Notified	Organization
03/22/2000	08:30 (ETZ)	Fred Holbrook	DOE/MEMP

14. Subject or Title of Occurrence:

Failure to Perform LCO Surveillance Within Specified Frequency

15. Nature of Occurrence:

01) Facility Condition
G. Oversight Activities

16. Description of Occurrence:

On Wednesday, March 22, 2000 at approximately 0800 hours (ETZ) it was discovered that the Limiting Conditions for Operations (LCO)surveillance requirement for Technical (T) Building, Tritium Effluent Reduction Facility (TERF)was not being performed at the prescribed frequency. The T Building Basis of Interim Operations (BIO) surveillance requirement for TERF includes a weekly function check of a Combustion Gas Monitor.

When an assessment of the TERF logbook and LCO checksheets was completed by the Department of Energy (DOE) Facility Representative, it was determined that the suveillance was being conducted at least one time within a given week except for two times during Sept/Oct 1999. The BIO describes weekly as every seven days with a +/- 25 percent grace period. The misunderstanding by TERF personnel of the definition of the term "weekly" resulted in surveillances that were outside the grace period for times in the September/October 1999 timeframe. These occurrences happened when the operator who normally conducts the surveillance was off-site.

TERF's weekly checksheets did not indicate on what date the surveillance for the combustible gas monitor was performed. The day of the performance of the surveillance was determined by the entry

in the TERF logbook.

All the T Building LCO surveillances were being tracked on the T Building Plan-of-the-Day except the TERF combustible gas monitor surveillances.

A survey of personnel performing LCO surveillances was conducted by Facility Management personnel on the understanding of surveillance time intervals and permissible grace periods. The results of those surveys indicated that there was still a small percentage of people who still did not understand the time intervals associated with the performance of LCOs.

17. Operating Conditions of Facility at Time of Occurrence:

Not Applicable

18. Activity Category:

03 - Normal Operations

19. Immediate Actions Taken and Results:

No immediate actions were required to maintain the facility as operational. A critique and further evaluation were performed.

20. Direct Cause:

5) Training Deficiency
E. Inadequate Presentation or Materials

21. Contributing Cause(s):

3) Personnel Error
A. Inattention to Detail

3) Personnel Error
C. Communication Problem

22. Root Cause:

6) Management Problem
F. Other Management Problem

23. Description of Cause:

The Direct Cause of this event was a training deficiency due to inadequate presentation or materials. The meaning of surveillance requirement for every seven days was not presented in a manner that made it clear that just performing the surveillance once in any given seven day period was not acceptable.

There were two Contributing Causes to this event. The first was a personnel error due to communication problem. The TERF operators failed to formally discuss and conduct an exchange and turnover of responsibility to conduct the combustible gas monitor surveillance on Mondays. The second contributing cause was a personnel error due to inattention to detail. When the LCO surveillance tracking part of the plan-of-the-week was developed, the surveillance requirement for the combustible gas monitor was overlooked.

The Root Cause of this event was a management problem under the other management problem category. Line management did not reinforce the LCO surveillance training by performing assessments and questioning personnel (verifying that the LCO was met by time period required) on their understanding of surveillance time periods with the TERF personnel.

24. Evaluation (by Facility Manager/Designee):

When the TERF operator who normally performs the LCO surveillance was off site in the September/October time period, another operator failed to performed the surveillance. This happened because the TERF personnel had a misunderstanding believing the surveillance could be performed anytime the following week.

25. Is Further Evaluation Required?: No

26. Corrective Actions

(* = Date added/revised since final report was approved.)

1.	Facility Management to conduct survey of personnel on knowledge oand meaning of the surveillance time intervals and grace periods	
	Target Completion Date: 04/15/2000	**Completion Date:** 04/15/2000
2.	Modify TERF LCO/Round sheet to indicate actual date actions performed.	
	Target Completion Date: 03/31/2000	**Completion Date:** 03/31/2000
3.	Modify operation procedures MD-70772 and MD-22147 to reflect proper surveillance time intervals and job responsibility turnovers.	
	Target Completion Date: 05/15/2000	**Completion Date:** 05/02/2000
4.	Conduct training at "All Hands" Tritium Project monthly meeting on surveillance intervals and grace periods.	
	Target Completion Date: 05/04/2000	**Completion Date:** 05/02/2000
5.	Add the TERF Combustible Gas Monitor surveillance to the Plan-of-the-Week so that Facility Management also tracks due dates.	
	Target Completion Date: 03/24/2000	**Completion Date:** 03/24/2000

27. Impact on Environment, Safety and Health:

None

28. Programmatic Impact:

None

29. Impact on Codes and Standards:

None

30. Lessons Learned:

To meet the requirements of any given surveillance, it must be performed within the time intervals specified. When the meaning of the time period is not properly understood, then the possibility exists that the person performing the surveillance will end up performing it outside the permissible time period. Line management must assure that everyone performing surveillances fully understands the time periods in which they must be performed and monitors the actual performance fo the surveillance.

31. Similar Occurrence Report Numbers:

1. OH-MB-BWO-BWO01-1999-0016
2. OH-MB-BWO-BWO01-1999-0017

32. User-defined Field #1:

33. User-defined Field #2:

34. DOE Facility Representative Input:

35. DOE Program Manager Input:

36. Approvals:

Approved by: ALLISON, JERRY L, Facility Manager/Designee
Date: 05/01/2000
Telephone No.: (937) 865-4533

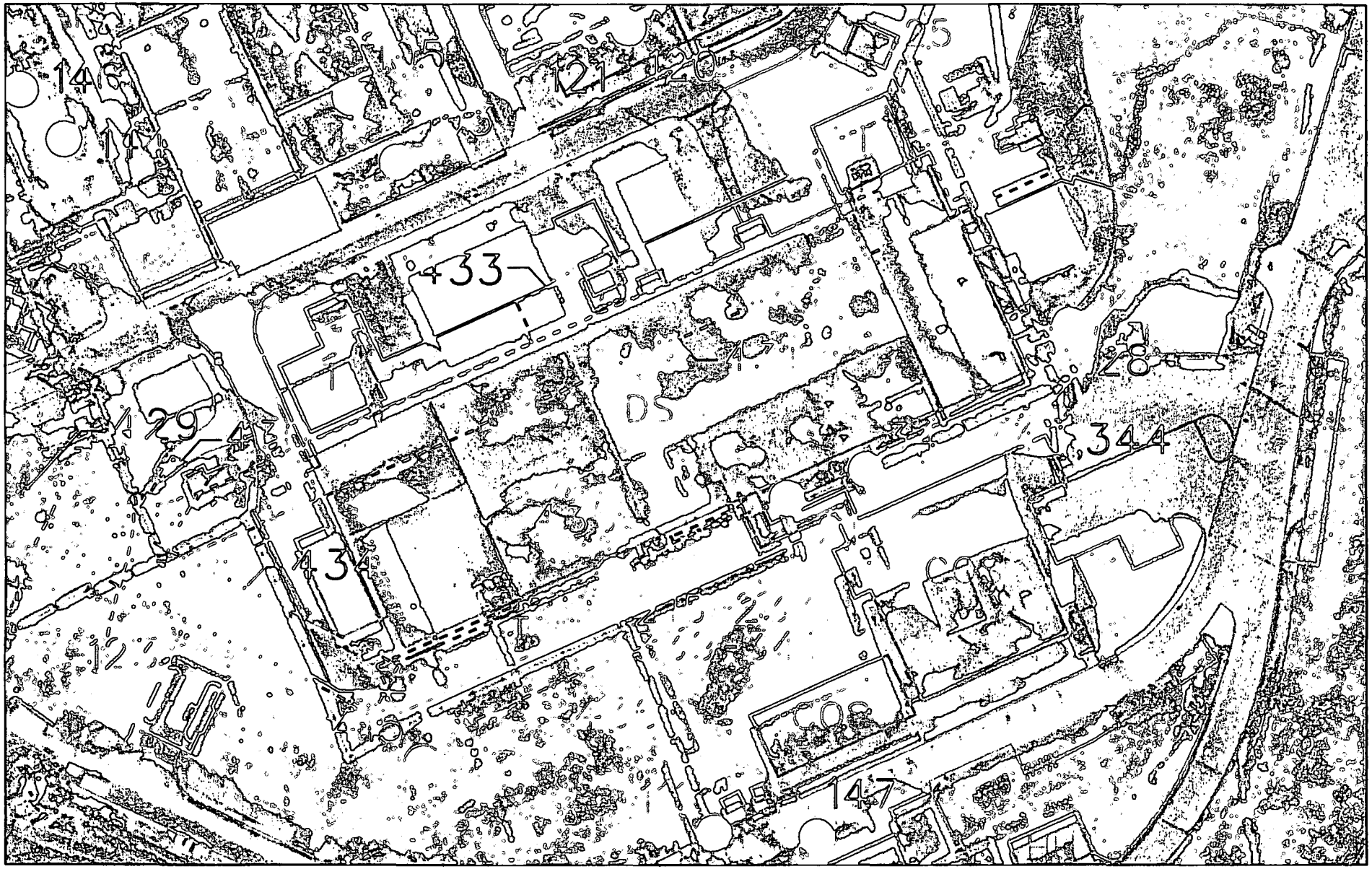
Approved by: HOLBROOK, FRED B, Facility Representative/Designee
Date: 06/16/2000
Telephone No.: (513) 865-4677

Approved by: Approval delegated to FR
Date: 06/16/2000
Telephone No.:

Appendix N

PRS Information

Recommendation sheets are not generated for PRSs requiring Further Assessment. Accordingly, there is no recommendation sheet for twenty-seven PRSs associated with the building (See Table 3) included herein. There are recommendation sheets for the sixteen PRSs in proximity to T Building (See Table 4) included herein.



PRS Point

PRS Area

PRS Line

MOUND

Environmental Restoration Geographic Information System

Figure 2:
T Building and Vicinity

UNCLASSIFIED

vicinity.dgn

SYE

ER-GIS

STATUS MD-REL-00/00/00

MSTATION / .1

	10/28/02		SSF					
	DATE		BY					

MOUND PLANT
PRS 103
SOIL CONTAMINATION - E BUILDING

RECOMMENDATION:

This soils location was identified as a Potential Release Site (PRS) because of the detection of Volatile Organic Compounds (VOCs) during the Mound Reconnaissance Sampling soil gas survey. The compounds identified were trichloroethane (111-TCA), trichloroethene (TCE), and toluene.

Calculations were performed converting the 10^{-6} Risk Based Guideline Values (given in mg contaminant per kg soil) to corresponding 10^{-6} Risk Based Guideline Values for soil gas concentrations (parts contaminant per parts soil gas). The results of the calculation showed that the 111-TCA detection was approximately 25,000 times less than guideline criteria, TCE approximately 10 times less than guideline criteria and toluene 1,800 times less than guideline criteria. Additionally, Pu-238 and Th-232 were at concentrations below their respective guideline criteria of 25 pCi/g and 5 pCi/g.

Therefore, since the VOC soil gas detections establishing this soils location as a PRS have been shown not to be evidence of contamination above guideline criteria and since there is no additional evidence of contamination, PRS 103 requires <u>NO FURTHER ASSESSMENT</u>.

CONCURRENCE:

DOE/MB: Arthur W. Kleinrath, Remedial Project Manager — 8/20/96 (date)

USEPA: Timothy J. Fischer, Remedial Project Manager — 8/20/96 (date)

OEPA: Brian K. Nickel, Project Manager — 8/24/96 (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from ~~9/15/96~~ 9/16/96 to 10/15/96

☒ No comments were received during the comment period.

☐ Comment responses can be found on page _____ of this package.

MOUND PLANT
PRS 105
FORMER SOLVENT STORAGE SITE
E BUILDING SHED

RECOMMENDATION:

Potential Release Site (PRS) 105 is a remediated soils location that was the former location of the E Building Solvent Storage Shed. This area was identified as a PRS due to the shed's use as a short term storage area for both fresh and spent solvents. The compounds of concern were identified as trichloroethene (TCE), ethanol, and methanol.

In 1988, the shed's structure, concrete floor and underlying soil was removed (soil was excavated to approximately a 4 foot depth). Subsequent verification sampling found no evidence of any organics in the soil in excess of the 10^{-6} Risk Based Guideline Values. A 1994 quantitative soil gas study and a 1984 radiological study, near PRS 105, also found no evidence of contamination in excess of guideline criteria.

Therefore, since the removal verification results found no remaining evidence of contamination from operations at the E Building Storage Shed and since no additional history or lab evidence of contamination exists at this PRS, PRS 105 requires <u>NO FURTHER ASSESSMENT</u>.

CONCURRENCE:

DOE/MB: Arthur W. Kleinrath, Remedial Project Manager — 8/20/96 (date)

USEPA: Timothy J. Fischer, Remedial Project Manager — 8/20/96 (date)

OEPA: Brian K. Nickel, Project Manager — 8/20/96 (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from 9/15/96 to 10/15/96

☒ No comments were received during the comment period.

☐ Comment responses can be found on page _____ of this package.

EXECUTIVE SUMMARY

The Mound Plant is a 306-acre Department of Energy (DOE) research and development facility on the border of the City of Miamisburg in Montgomery County, Ohio. The facility historically studied the chemical and metallurgical properties of various radiological materials in support of DOE. Past releases of radioactive materials have occurred at the facility. The USEPA placed the Mound Plant on the National Priority List (NPL) by publication in the Federal Register on November 21, 1989.

Monitoring Well 0034 is one of over 400 Potential Release Sites (PRSs) at the Mound facility. The well was installed in May 1976 for tritium monitoring. It is 20 feet deep and has a 3-foot steel well screen seated in weathered shale. Groundwater sampling in this well prior to 1980 was for tritium only, and measured 16,000 to 91,000 pCi/L. In 1986, an oily substance was discovered in the well. Based on this apparent release of petroleum hydrocarbons, a removal action was undertaken to mitigate potential petroleum hydrocarbon exposure in the environment.

Contaminant characterization groundwater and wipe sampling identified the oily material as a polychlorinated biphenyl (PCB)-free lubricating oil. Verification groundwater sampling did not detect the presence of benzene, toluene, ethyl benzene or xylenes. Verification soil sampling detected very low concentrations of toluene and ethyl benzene between 16 and 20 feet below land surface (BLS). Very low concentrations of o-xylene were reported between 6 and 21 feet BLS, but the laboratory tentatively identified this as styrene, which co-elutes with o-xylene. Concentrations of total petroleum hydrocarbons (TPH), ranging from 18.9 to 440 ppm were reported for samples between the ground surface and 21 feet BLS.

The State of Ohio Fire Marshall Bureau of Underground Storage Tank Regulation (BUSTR) has set four action levels for TPH in soil based on site characteristics. The Work Plan for PRS 111 closure originally proposed an action level of 380 ppm (Category 1), which is the most conservative action level. Based upon further evaluation using BUSTR scoring criteria, it was determined that the appropriate cleanup level was 904 ppm (Category 3).The TPH concentrations measured during abandonment of Well 0034 fall below action levels for a Category 3 site. The action levels for benzene, toluene, ethyl benzene and xylenes were not exceeded in any sample.

The removal action chosen for this PRS was well abandonment. This was completed by overdrilling, removal of the well casing, and then grouting the hole. Well casing materials were steam cleaned, and screening analysis was performed to insure that the material was not contaminated. The well materials were then taken off site by a Mound Plant waste disposal contractor. Approximately one cubic yard of soil cuttings generated during overdrilling were spread in the vicinity of the former well.

Arthur W. Kleinrath, Remedial Project Manager
U.S. Department of Energy
Miamisburg Environmental Management Project

Timothy J. Fischer, Remedial Project Manager
U.S. Environmental Protection Agency

Brian K. Nickel, Project Manager
Ohio Environmental Protection Agency

MOUND PLANT

PRS #118, 119, 120, 121

RECOMMENDATION:

Potential Release Sites (PRSs) 118, 119, 120 and 121 are specified as associated with M Building. PRS 118 is identified as M Building related soils, and PRSs 119 and 120 are identified as building sumps resident in, and potentially impacting these soils. PRS 121 is identified as vapor degreasers resident within the building. The demolition of M Building included the removal of the degreasers and the sumps, and soil characterization activities designed to determine the potential presence and levels of residual PRS contamination.

The Core Team has determined that PRSs 118, 119, 120, and 121 have been adequately addressed through the M Building demolition process. In addition, after reviewing the post-demolition characterization results, the Core Team has determined that the soil in the M Building area is protective of human health and the environment for industrial use.

Therefore, PRSs 118, 119, 120, and 121require NO FURTHER ASSESSMENT.

Concurrence:

DOE/MEMP _____ _____
Robert S. Rothman, Remedial Project Manager (date)

USEPA: _____ 2/22/01
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: _____ _____
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from _____ to _____

☐ No comments were received during the comment period.

☐ Comment responses can be found on page _____ of this package.

MOUND PLANT
PRS #123

RECOMMENDATION:

PRS 123 was identified as a result of a December 1970 waste line break. Several radionuclides (including Cobalt-60) are present in the soils at PRS 123 at a greater than 1 in 10,000 (10^{-4}) risk level.

Therefore, a RESPONSE ACTION is recommended for PRS 123.

CONCURRENCE:

DOE/MEMP: _____ 9/18/00
Robert S. Rothman, Remedial Project Manager (date)

USEPA: _____ 9/18/00
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: _____ 9/18/00
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from _____ to _____

☐ No comments were received during the comment period.

☐ Comment responses can be found on page _____ of this package.

R

Original

REV B

MOUND PLANT RECOMMENDATION

DS BUILDING

Background:

DS Building is a 47,810 square foot single story concrete building with a built up membrane roof and three penthouses. It was constructed in 1965 and served as the Metrology Lab and Explosive Testing Facility. PRS 128, the DS Building Solvent Storage Shed, is also considered as part of this facility.

Recommendation:

After thorough review of the environmental data and the Building Data Package, the Core Team agrees that no environmental concerns are associated with DS Building. Because of the presence of PRS 122 (radioactive waste lines) located underneath DS Building, the Core Team has determined that it is not appropriate to transfer DS Building at this time. After PRS 122 is evaluated as NFA or clean up has been completed, title transfer for DS Building can occur. However, the Core Team feels that DS Building is protective of human health and the environment for the purpose of leasing for commercial/industrial use.

Concurrence:

DOE/MEMP: Sam Cheng 4/16/98
Sam Cheng, D&D Team Leader (date)

USEPA: Timothy J. Fischer 4/23/98
Timothy J. Fischer, Remediation Project Manager (date)

OEPA: Brian K. Nickel 4/16/98
Brian K. Nickel, Project Manager (date)

9. RECOMMENDATION

This decision document represents the selected removal action for Buildings R, SW, 68 Slab and 58, developed in accordance with CERCLA as amended by SARA, and not inconsistent with the NCP. This decision is based on the administrative record for the site.

Conditions at the site meet the NCP Section 300.415 (b)(2) criteria for a removal and we recommend initiation of the response action.

Approved:

Art Kleinrath, On Scene Coordinator	DOE/MEMP	10/18/2000 Date
Timothy J. Fischer, Remedial Project Manager	USEPA	11/16/00 Date
Brain K. Nickel, Project Manager	OEPA	10/18/00 Date

Seven Potential Release Sites (PRSs) (PRS 142, 143, 144, 145, 146, 327, and 328) are associated with Building R. The PRSs and a brief description are listed in Table 2.1. These PRSs are included in the removal action.

Figure 2.2 is a photograph of Building R.

Table 2.1 PRSs Associated with Building R

PRS	Description	Comments
142	Building SW/R Solid Radioactive Waste Compactor	
143	Building SW/R/T Stack Diesel Fuel Storage Tank (Tank 117)	
144	R Building Sanitary Waste Collection Tank (Tank 120)	
145	Room R-128 Alpha Waste Water Tank (Tank 19)	
146	R Building Rooms 121, 144, 146, and 148 entombed drains	Sealed in concrete in building floor drains.
327	R-111 Calorimetry Bath (Tank 255)	
328	R-111 Calorimetry Bath (Tank 256)	

Building 68 was a one-story structure constructed in 1979 of pre-fabricated metal with a metal roof. The Building 68 structure was demolished as part of the E Building demolition project in May, 2000. (See E Building Action Memo, Final, April 2000.) Following the demolition of the Building 68 structure, the slab was left to be used as an equipment staging area for the Buildings R/SW demolition project. The total area of the Building 68 slab is approximately 1,990 square feet. Following completion of the R/SW demolition, the Building 68 slab will be removed along with the R and SW building slabs.

Figure 2.3 is a photograph of the former location of Building 68 (slab).

MOUND PLANT
PRS 147
SOIL CONTAMINATION - HH BUILDING

RECOMMENDATION:

Potential Release Site (PRS) 147 was initially identified as a result of the Soil Gas Survey which detected toluene levels ranging from 5 to 23,142 parts per billion (ppb). Of the four (4) samples collected in the area of PRS 147, none were above the calculated soil gas guideline value for toluene of 414,600 ppb. This means that the level of toluene contamination present in soil at PRS 147 cannot adversely affect the quality of groundwater at a potential drinking water source through leaching. No detection of toluene was indicated in the downgradient seep #602, which is approximately 250 feet from PRS 147. Therefore, PRS 147 requires NO FURTHER ASSESSMENT.

CONCURRENCE:

DOE/MB: Arthur W. Kleinrath, Remedial Project Manager — 3/12/96 (date)

USEPA: Timothy J. Fischer, Remedial Project Manager — 3/11/96 (date)

OEPA: Brian K. Nickel, Project Manager — 3/14/96 (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from ~~4/15/96~~ 3/15/96 to ~~5/15/96~~ 4/01/96.

☒ No comments were received during the comment period.

☐ Comment responses can be found on page_____ of this package.

MOUND PLANT
PRS #429, 430, 431, 432, 433

RECOMMENDATION:

PRSs 429, 430, 431, 432, & 433 were identified because the underground line segments carried radioactively contaminated effluent from T Building operations to the Waste Disposal building (WD). Several radionuclides (including Cobalt-60) are present in the waste lines at a greater than 1 in 10,000 (10^{-4}) risk level.

Therefore, a RESPONSE ACTION is recommended for PRSs 429, 430, 431, 432, & 433.

CONCURRENCE:

DOE/MEMP: _____ 9/18/00
Robert S. Rothman, Remedial Project Manager (date)

USEPA: _____ 9/18/00
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: _____ 9/18/00
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from _____ to _____

☐ No comments were received during the comment period.

☐ Comment responses can be found on page _____ of this package.

R

MOUND PLANT
PRS #434, 435, 436

RECOMMENDATION:

PRSs 434, 435 and 436 were identified because the underground line segments carried radioactively contaminated effluent from T Building operations to the Waste Disposal building (WD). Several radionuclides (including Cobalt-60) are present in the waste lines at a greater than 1 in 10,000 (10^{-4}) risk level.

Therefore, a RESPONSE ACTION is recommended for PRSs 434, 435, & 436.

CONCURRENCE:

DOE/MEMP: _____ 9/18/00
Robert S. Rothman, Remedial Project Manager (date)

USEPA: _____ 9/18/00
Timothy J. Fischer, Remedial Project Manager (date)

OEPA: _____ 9/18/00
Brian K. Nickel, Project Manager (date)

SUMMARY OF COMMENTS AND RESPONSES:

Comment period from _____ to _____

☐ No comments were received during the comment period.

☐ Comment responses can be found on page _____ of this package.

R

Appendix O

Work Plan

Not applicable for buildings to be transferred to MMCIC.