Rocky Flats Environmental Technology Site

PRE-DEMOLITION SURVEY REPORT (PDSR)

BUILDING 883 CLOSURE PROJECT

REVISION 0

January 27, 2005

Change Control:

Rev 1. Added Footnote #8 in Section 3 Summary Table - 1/31/05.
Rev 1. Corrected type on Page 4 of 10 – 1/31/05.
Rev 1. Corrected type on 883 First Floor Key Plan Map – 1/31/05.
Rev 1. Added isotopes on concern on Survey Unit 883012 Media Sample Results Table – 1/31/05.
Rev 1. Removed duplicate copy of Survey #883-04-S1306 in Attachment B-1, Post-Fixative (DOE Copy).
Rev 2. Added copy of Survey #883-04-S1306 in Attachment B-1, Post-Fixative (CDPHE Copy).
Rev 2. Added copy of B-Side, Room 112 floor, post-fixative removable rad survey in Attachment B-2, Post-Fixative LLW Surveys.
Rev 2. Added copy of B-Side, Salt Bath Pit, post-fixative removable rad survey in Attachment B-2, Post-Fixative LLW Surveys.

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PRE-DEMOLITION SURVEY REPORT (PDSR)

BUILDING 883 CLOSURE PROJECT

REVISION 0

January 27, 2005

Reviewed by: _____ Date: 1/27/05
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ABBREVIATIONS/ACRONYMS

ACM	Asbestos Containing Material
Be	Beryllium
CDPHE	Colorado Department of Public Health and the Environment
$DCGL_{EMC}$	Derived Concentration Guideline Level – elevated measurement comparison
$DCGL_W$	Derived Concentration Guideline Level – Wilcoxon Rank Sum Test
D&D	Decontamination and Decommissioning
DDCP	Decontamination and Decommissioning Characterization Protocol
DOE	U.S. Department of Energy
DPP	Decommissioning Program Plan
DQA	Data quality assessment
DQOs	Data quality objectives
EPA	U.S. Environmental Protection Agency
FDPM	Facility Disposition Program Manual
HVAC	Heating, ventilation, air conditioning
HSAR	Historical Site Assessment Report
HEUN	Highly Enriched Uranyl Nitrate
IHSS	Individual Hazardous Substance Site
IVT	Independent Verification Team
IWCP	Integrated Work Control Package
K-H	Kaiser-Hill
LBP	Lead-based paint
LLW	Low-level waste
MARSSIM	Multi-Agency Radiation Survey and Site Investigation Manual
MDA	Minimum detectable activity
MDC	Minimum detectable concentration
NORM	Naturally occurring radioactive material
NRA	Non-Rad-Added Verification
OSHA	Occupational Safety and Health Administration
PARCC	Precision, accuracy, representativeness, comparability and completeness
PCBs	Polychlorinated Biphenyls
PDS	Pre-Demolition Survey
QC	Quality Control
RCRA	Resource Conservation and Recovery Act
RFCA	Rocky Flats Cleanup Agreement
RFETS	Rocky Flats Environmental Technology Site
RFFO	Rocky Flats Field Office
RLC	Reconnaissance Level Characterization
RLCR	Reconnaissance Level Characterization Report
RSA	Removable Surface Activity
RSP	Radiological Safety Practices
SVOCs	Semi-volatile organic compounds
TCLP	Toxicity Characteristic Leaching Procedure
TSA	Total Surface Activity
VOCs	Volatile Organic Compounds

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EXECUTIVE SUMMARY

A Pre-Demolition Survey (PDS) was performed to enable compliant disposition and waste management of Building 883. Because this Type 2 Facility will be demolished, the characterization was performed in accordance with the Pre-Demolition Survey Plan (MAN-127-PDSP). Building surfaces characterized as part of this PDS included Building 883 remaining interior floors, walls, ceilings and equipment. Building 883 exterior was characterized in accordance with Pre-Demolition Survey Plan (MAN-127-PDSP) requirements as part of the Building 883 Cluster RLCR, completed October 17, 2001. The PDS of Building 879 has already been performed and documented in a stand-alone PDSR. Environmental media beneath and surrounding the building was not within the scope of this PDS and will be addressed in accordance with the Soil Disturbance Permit process and in compliance with RFCA.

The PDS encompassed both radiological and chemical characterization to enable compliant disposition and waste management pursuant to the D&D Characterization Protocol (MAN-077-DDCP). The characterization built upon physical, chemical and radiological hazards identified in the facility-specific Historical Site Assessment Report and Reconnaissance Level Characterization Report for the Building 883 Cluster.

PDS results indicated that RCRA/CERCLA constituents do not exist in excess of the PDSP unrestricted release limits. However, PCBs do exist in excess of the PDSP unrestricted release limits in two locations (the A-Side USI Pit and the East Annex Pit 4) and will be managed as Low Level Waste-Beryllium-PCB remediation waste. PCB-containing fluorescent light ballast and hazardous waste items (e.g., mercury thermostats, fluorescent light bulbs, mercury vapor light bulbs, mercury-containing gauges, circuit boards, leaded glass, and lead-acid batteries) were previously removed from the building and do not impact demolition activities.

Asbestos abatement was conducted in most areas of Building 883 prior to the PDS. Friable and non-friable asbestos containing building materials were removed per CDPHE, Regulation No. 8, Part B, *Emission Standards for Asbestos*. The only remaining asbestos in the building at the time of this report generation, is the exterior transite wall paneling on the A-Side and Room 111 walls, and a non-friable asphaltic coating on structural members of Rooms 106 and 108. These transite walls will be removed upon DOE and CDPHE approval, but before demolition of the building.

PDS results indicate that radiological contaminates exist in excess of the PDSP (Pre-Demolition Survey Plan) unrestricted release limits and fixatives were used to immobilize loose radiological contamination. Therefore, the entire remaining portions of the building will be managed as Low Level Waste (LLW)-PCB Bulk Product Waste during demolition. These LLW areas are discussed in detail on Section 3. Although there were a few areas of Building 883 that met the PDSP unrestricted release limits, most of these areas (i.e., Office area and C-Side walls and ceiling, and Room 212) have already been demolished (demolition was approved via RFCA Contact Records).

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Fixatives were used to immobilize loose beryllium contamination. All post-fixative beryllium sample results were below the investigative level of 0.1 $\mu g/100cm^2$.

Based upon this PDSR, Building 883 can be demolished and the waste managed as LLW-PCB Bulk Product Waste, or LLW-PCB remediation waste, as applicable. None of the concrete will be used for on-site backfill. Under-slab utilities and piping systems shall be managed as radioactive and beryllium waste during demolition. To ensure that the facility remains free of further contamination and PDS data remain valid, Level 2 Isolation Controls have been established and the area posted accordingly.

1 INTRODUCTION

A Pre-Demolition Survey (PDS) was performed to enable compliant disposition and waste management of Building 883. Because this Type 2 Facility will be demolished, the characterization was performed in accordance with the Pre-Demolition Survey Plan (MAN-127-PDSP). Building surfaces characterized as part of this PDS included Building 883 interior floors, walls, ceilings and equipment. Building 883 exterior was characterized in accordance with Pre-Demolition Survey Plan (MAN-127-PDSP) requirements as part of Buildings 883 and 879 RLCR, completed October 17, 2001. Environmental media beneath and surrounding Building 883 was not within the scope of this PDS and will be addressed in accordance with the Soil Disturbance Permit process and in compliance with RFCA.

As part of the Rocky Flats Environmental Technology Site (RFETS) Closure Project, numerous facilities will be removed, among these is Building 883. The location of this facility is shown in Attachment A, *Facility Location Map*. Attachment A also includes Key Floor Plan Maps showing Room Groups 1-9, and the major area divisions (i.e., A-Side, B-Side, C-Side, North Side, Center Area, East Annex, Office Area, and Basement). This facility no longer supports the RFETS mission and will be removed to reduce Site infrastructure, risks and/or operating costs.

Before this Type 2 Facility can be demolished, the Data Quality Objectives (DQOs) for a Pre-Demolition Survey (PDS) must be satisfied; this document presents the PDS results for Building 883. The PDS was conducted pursuant to the Decontamination and Decommissioning Characterization Protocol (MAN-077-DDCP) and the Pre-Demolition Survey Plan for D&D Facilities (MAN-127-PDSP). The PDS is built upon physical, chemical and radiological hazards identified in the facility-specific Historical Site Assessment Report and Reconnaissance Level Characterization Report for Buildings 883 and 879, dated October 17, 2001, Revision 0.

1.1 Purpose

The purpose of this report is to communicate and document the results of the Building 883 PDS effort. A PDS is performed prior to building demolition to define the pre-demolition radiological and chemical conditions of the facility. The pre-demolition conditions are compared with the release limits for radiological and non-radiological contaminants. PDS results will enable project personnel to make final disposition decisions, develop related worker health and safety controls, and estimate waste volumes by waste types.

1.2 Scope

This report presents the pre-demolition radiological and chemical conditions of Building 883. Environmental media beneath and surrounding the facilities are not within the scope of this PDSR and will be addressed in accordance with the Soil Disturbance Permit process and in compliance with RFCA.

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
REGULATORY CONTACT RECORD

Date/Time: 3/9/05

Site Contact(s): Doug Schlagel
Phone: x4175

Regulatory Contact: Cheryl Turcotte
Phone: 303.312.6210

Agency: USEPA, Region VIII, EPCRA Program

Purpose of Contact: Determine requirement to submit CY2005 Tier II Report

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Discussion
Contacted Ms. Turcotte to determine applicability of Tier II Reporting Requirements to RFETS. While Tier II information is largely used for emergency response (and would not provide beneficial information after Site closure), Tier II information is also required to be made available to the public via EPCRA. Thus, a Tier II report for CY05 activities must be submitted to maintain full compliance with EPCRA. Early submittal of the CY05 report (using CY04 forms) with an explanation of circumstances (e.g., Site has closed, chemicals no longer stored on site) upon collection of all required data is acceptable with USEPA.

Contact Record Prepared By: Doug Schlagel

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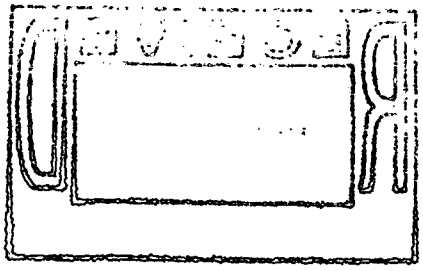

1.3 Data Quality Objectives

The Data Quality Objectives (DQOs) used in designing this PDS were the same DQOs identified in the Pre-Demolition Survey Plan for D&D Facilities (MAN-127-PDSP). Refer to section 2.0 of MAN-127-PDSP for these DQOs. The LLW radiological survey Data Quality Objectives (DQOs) were met by following Radiological Safety Practice procedures 3-PRO-165-07.02, *Contamination Monitoring Requirements*, and PRO-267-RSP-09.05, *Radiological Characterization for Surface Contaminated Objects*.

2 HISTORICAL SITE ASSESSMENT

A Facility-specific Historical Site Assessment (HSA) and Reconnaissance Level Characterization (RLC) was conducted to understand the facility history and related hazards. The HSA consisted of facility walk-downs, interviews and document review, including review of the Historical Release Report, and were used to design the RLC. The Building 883 RLC was performed in October 2001, as part of the Buildings 883 and 879 RLCR (refer to *Reconnaissance Level Characterization Report for Buildings 883 and 879,* dated October 17, 2001, Revision 0). Based on the RLC results, asbestos, beryllium and radiological contamination were identified, and Building 883 was classified as a Type 2 Facility. Therefore, a PDS characterization was required before demolition of the facility. The HSA and RLC results were used to identify PDS data gaps and needs, and to develop radiological and chemical PDS characterization packages. HSA and RLC documentation are located in the RISS Characterization Project files.

3 RADIOLOGICAL CHARACTERIZATION AND HAZARDS

Low Level Waste Discussion

Radiological contamination was identified during the RLC, as well, as during the in-process stripout and decontamination phases in Building 883. Thus, extensive stripout and decontamination was required prior to the PDS. Most of the potentially contaminated equipment and system piping were removed from the building prior to PDS, except for the HPM Press bases, the Loewy Press bases, and supply ducting. Fixed radiological contamination could not be decontaminated below the PDS unrestricted release criteria without compromising the structural integrity of the building or was too difficult to decontaminate. The radiological contamination was embedded into the concrete and metal cracks and joints such that if the decontamination effort chased the contamination into the cracks and joints, the structural integrity of the walls would be compromised to the point of being unsafe for human occupancy.

Therefore, the entire building will be removed and managed as LLW-PCB Bulk Product Waste during demolition. Remaining concrete and metal surfaces were decontaminated in order to remove as much removable contamination as practical, pre-fixative surveys were performed, then fixatives were applied to immobilize any remaining loose contamination. The building was then re-surveyed (post-fixative surveys) for waste disposal and LLW demolition planning purposes. The pre and post-fixative surveys were performed per Radiological Safety Practice procedures 3-PRO-165-07.02, *Contamination Monitoring Requirements*, and PRO-267-RSP-09.05, *Radiological Characterization for*

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Surface Contaminated Objects. Although there were a few areas of Building 883 that met the PDSP unrestricted release limits (i.e., Office area and C-Side walls & ceiling, Room 212), most of those areas have already been demolished (demolition was approved via RFCA Contact Records). These clean areas were surveyed using the normal PDS survey unit package process and the data is included in this report.

No removable radiological contamination existed above the unrestricted release criteria after decontamination and fixative application. Appropriate controls will be incorporated into the demolition work packages to control these hazards during demolition. The in-process waste disposal and LLW demolition planning surveys are contained in Attachments B-1 through B-8, *LLW Surveys*, and suffice as the PDS radiological surveys for these areas of the building. The surfaces that will be removed and managed as LLW include the remaining floor, wall and ceiling surfaces of the A-Side, B-Side, C-Side, North Side, Middle Area, East Annex, Basement, and Office Area.

The following table summarizes the highest pre-fixative and post-fixative levels found in the LLW areas:

883 Area	**Pre-Fixative Fixed Point Survey Results** (dpm/100cm^2 β)	**Pre-Fixative Removable Survey Results** (dpm/100cm^2 β)	**Post-Fixative Fixed Point Survey Results** (dpm/100cm^2 β)	**Post-Fixative Removable Survey Results** (dpm/100cm^2 β)
A-Side	6,200,000	32,994	5,855,000	<1,000
B-Side	6,586,364	86,207	N/A	<1,000
C-Side	360,000	<1,000	N/A	<1,000
North Side	523,250	1,500	N/A	<1,000
Middle Area	175,000	1,500	60,000	<1,000
East Annex	1,250,000	<1,000	N/A	<1,000
Basement Area	638,032	8,444	965,000	<1,000
Office Area	40,000	<1,000	N/A	<1,000

Table Footnotes:

1. Post-fixative fixed-point survey results were not necessary or required in most cases.
2. In some cases, pre-fixative fixed-point survey results were not collected in all areas (i.e., A-side Room 105 and 103 floors, Erie Press Pit, Salt Bath Pit, East Air Tunnel, some Room 110 overhead, and some basement overhead areas). However, post-fixative fixed-point survey results were collected in these areas and are representative of what the pre-fixative fixed-point survey results would have shown because the beta attenuation through fixative is minimal for depleted uranium.
3. In some case the post-fixative swipes were >1,000 dpm/100cm^2, however additional fixatives were applied and further follow up swipes were performed at the same locations. These additional follow up swipes are contained in the same LLW Survey attachments in Attachments B1-B8. All final post-fixative swipes were <1,000 dpm/100cm^2.
4. In some areas fixatives were not necessary or were not applied because the pre-fixative surveys were <1,000 dpm/100cm^2 removable.
5. For some removable surveys, the survey maps are the corresponding beryllium maps since the beryllium swipes were also analyzed for radiological contaminates.
6. For some of the 1st floor North Side LLW surveys of Rooms 128 and 129 were merged together with Rooms 106, 107 and 108 surveys because the common walls of these five rooms were removed making one large room.

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Table Footnotes Continued:

7. There were no post-fixative fixed-point or removable surveys of the East Annex because all areas were <1,000 dpm/100cm^2 by disk swipe prior to fixative application. The post-decon surveys are on the same pre-fixative survey forms in Attachment B-6. Some surveys show large area wipes that are >1,000 dpm/wipe, however corresponding disk swipes were <1,000 dpm/100cm^2.
8. Some of the post-fixative surveys in the Basement were collected at the original pre-fixative locations, as well as some new locations. Therefore, some of the new post-fixative survey locations were higher than the pre-fixative locations.

PDS Discussion

Building 883 was characterized for radiological hazards per the PDSP and RSPs. Radiological characterization was performed to define the nature and extent of radioactive materials that may be present on the facility surfaces. Measurements were performed to evaluate the contaminants of concern. Based upon a review of the RLC, historical and process knowledge, building walk-downs, and MARSSIM guidance, a Radiological Characterization Plan was developed during the planning phase that describes the minimum survey requirements (refer to the RISS Characterization Project files for the Building 883 Radiological Characterization Plan). Based on RLC data, and historical and process knowledge, transuranic activity was not a concern inside building 883, therefore, the 883 PDS was performed to the uranium PDS unrestricted release criteria.

As discussed above, the LLW areas were surveyed using the RSPs. The clean areas of 883 were surveyed using the PDSP radiological survey unit package process. PDS radiological survey unit packages that were implemented in Building 883 are as follows:
:

- 883005 - Rooms 138 and 139, walls and ceiling (floors and one meter up walls from floor are LLW)
- 883008 - Room 144, walls and ceiling (floors are LLW)
- 883009 – Room 137, walls and ceiling (floors are LLW).
- 883011 – South Office Rooms, all surfaces.
- 883012 – North Office Rooms , all surfaces (Room 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A are LLW)
- 883015 – Room 212, all surfaces

Note: - the RLCR office area maps show rooms 117 and 101 twice, the PDS maps have been changed to show one room 117 as 119, and one room 119 as 119a in order to clarify between the duplicate room numbers.

The Building 883 PDS survey unit packages were developed in accordance with Radiological Safety Practices (RSP) 16.01, *Radiological Survey/Sampling Package Design, Preparation, Control, Implementation and Closure*. Total surface activity (TSA), removable surface activity (RSA), and scan measurements were collected in accordance with RSP 16.02 *Radiological Surveys of Surfaces and Structures*. Radiological survey data were verified, validated and evaluated in accordance with RSP 16.04, *Radiological Survey/Sample Data Analysis*. Quality control measures were implemented relative to the survey process in accordance with RSP 16.05, *Radiological Survey/Sample Quality Control*. Individual radiological survey unit packages are maintained in the RISS Characterization Project files.

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PDS radiological survey data, statistical analysis results, survey locations, and radiological scan maps are presented in Attachment B-9, *PDS Radiological Data Summary and Survey Maps*.

All TSA, RSA and scan survey results in survey units 883005, 883008, 883009, 883011, 883012 and 883015 were less than the applicable PDS uranium DCGL values. As noted on the survey unit maps, portions of the floors in these areas were not included in the survey unit boundaries and will be managed as LLW. Refer to surveys in Attachments B1-B8 for LLW surveys of these floors. As discussed above, most of the Office areas and C-Side met unrestricted release limits and most of these areas have already been demolished. The remaining Office areas will be demolished with the rest of the building LLW areas and managed as LLW-PCB Bulk Product Waste.

Paint (media) samples were not collected in Survey Units 883005, 883008, 883009, 883011 because there were either no painted surfaces in these survey units, or the paint was factory installed paint (e.g., metal roof decking), therefore paint (media) samples were not required. For Survey Unit 883012, only those surfaces that were painted were sampled (7 grid locations – all samples were less than DCGL values), which was adequate sample coverage for the area. Survey Unit 883015 was a Class 3 area, therefore no paint samples were required per the PDSP.

Building 883 exterior was characterized in accordance with the Pre-Demolition Survey Plan (MAN-127-PDSP) requirements as part of the Building 883 Cluster RLCR completed October 17, 2001. All of the exterior surveys performed during the Building 883 Cluster RLCR were less than the applicable PDS uranium DCGL values. To ensure the facility remains free of further contamination and PDS data remain valid, Level 2-Isolation Controls have been established and the areas posted accordingly.

4 CHEMICAL CHARACTERIZATION AND HAZARDS

Building 883 was characterized for chemical hazards per the PDSP. Chemical characterization was performed to determine the nature and extent of chemical contamination that may be present on, or in Building 883. Based upon a review of historical and process knowledge, visual inspections, and PDSP DQOs, additional sampling needs were determined. A Chemical Characterization Plan was developed during the planning phase that describes sampling requirements and the justification for the sample locations and estimated number of samples. The contaminants of concern were asbestos, beryllium, metals, RCRA/CERCLA constituents and polychlorinated biphenyls (PCBs). Refer to Attachment C, *Chemical Summary Data and Sample Maps*, for details on sample results and sample locations. Isolation control postings are displayed on affected structures to ensure no hazardous materials are introduced.

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4.1 Asbestos

Prior to the PDS, asbestos abatement was conducted in most areas of Building 883. Friable and non-friable asbestos containing building materials were removed per CDPHE, Regulation No. 8, Part B, *Emission Standards for Asbestos*. The only remaining asbestos in the building at the time of this report generation, is the exterior transite wall paneling on the A-Side and Room 111, and a non-friable asphaltic coating on structural members of Rooms 106 and 108. All remaining transite wall panels will be removed upon DOE and CDPHE approval, but before demolition of the building. On this basis, no additional asbestos bulk sampling was performed as part of the PDS.

4.2 Beryllium (Be)

During the in-process stripout and decontamination phase of the Building 883 project, all areas containing loose beryllium contamination were either decontaminated to below the unrestricted release limit of 0.2 $\mu g/100cm^2$ or had fixatives applied to immobilize loose beryllium to levels below the unrestricted release limit of 0.2 $\mu g/100cm^2$. Beryllium dispersion levels having been fixed to meet the PDS release limit included, six results from the east and west air tunnels and one from the top of a duct ranging between 1.0 and 2.12 $\mu g/100cm^2$, approximately twenty results ranging from > 0.1 to <1.0 $\mu g/100cm^2$ from the east and west air tunnels, and approximately twenty three results from limited spaces, such as wall and floor surfaces, also ranging from >0.1 to < 1.0 $\mu g/100cm^2$. Since Building 883 was on the list of Known Beryllium Areas, both random and biased PDS sampling was required.

Once the areas were pressure-washed and isolated from adjacent work areas, random and biased pre-fixative beryllium PDS wipes were collected and analyzed. If the pre-fixative wipe results were above 0.1 $\mu g/100cm^2$, either the surfaces were cleaned again and subsequent successful wipes were obtained, or fixatives were applied and then post-fixative wipes were collected to ensure the areas were below the unrestricted release limit of 0.2 $\mu g/100cm^2$.

Random and biased beryllium wipe samples were collected in Building 883 in accordance with the PDSP and the *Beryllium Characterization Procedure,* PRO-536-BCPR, Revision 0, September 9, 1999. All final "as left" beryllium PDS wipe results were less than the site action levels of 0.1 $\mu g/100cm^2$ and the unrestricted release limit of 0.2 $\mu g/100cm^2$. All demolition debris from the 883 will be managed as LLW-PCB Bulk Product Waste. Detailed the pre and post fixative PDS beryllium laboratory wipe data and location maps are contained in Attachment C-1, *Beryllium Results Table and Sample Location Maps.*

4.3 RCRA/CERCLA Constituents [including metals and volatile organic compounds (VOCs)]

Based on the *Reconnaissance Level Characterization Report for the Building 883 Cluster*, dated October 17, 2001, and personnel interviews, facility walk-downs and a review of historical WEMS/WSRIC processes, Building 883 had the potential of RCRA/CERCLA contamination. In September 2004, two samples and a duplicate were taken from pits in the east annex, and in December 2004, nine (9) samples were taken throughout the rest of the building and analyzed for metals, VOCs and SVOCs. All results were less than the regulatory limits confirming Building 883 is not contaminated by RCRA/CERCLA constituents. The laboratory sample data and location maps are contained in Attachment C-2, *RCRA/CERCLA Data Summaries and Sample Maps.*

The building may have contained some RCRA regulated items, such as mercury thermostats, fluorescent light bulbs, mercury vapor light bulbs, mercury containing gauges, circuit boards, and lead-acid batteries. However, these items have been removed and managed in accordance with the Colorado Hazardous Waste Act.

4.4 Polychlorinated Biphenyls (PCBs)

Based on the HSAR for the Building 883, personnel interviews, facility walk- downs and a review of historical WSRIC processes, Building 883 did house machinery containing PCB oil or hydraulic fluid. As part of the removal of equipment from the pits, oil was drained from several machines and containerized. A sampling plan was devised to check oil-stained areas beneath the equipment, or in pits. Eleven concrete core samples (plus 1 duplicate) were collected and analyzed. All results but two were below 10.0 ppm; sample location #7 (A-Side USI Pit) was 670 ppm PCB, and sample location #10 (East Annex Pit 4) was 1,710 ppm PCB (combined Aroclors of 1,000 ppm and 710 ppm). Therefore, these pits will be managed as PCB remediation waste. All of the USI Pit (including walls and the floor) will be removed and disposed of as LLW-PCB Remediation waste. Only the floor and 6 inches of the bottom walls in Pit 4 will be disposed of as LLW-PCB Remediation waste.

Based on the age of Building 883, paints used on the facility may contain PCBs, therefore, painted surfaces will be managed as PCB Bulk Product Waste. The PDS PCB laboratory sample data and location maps are contained in Attachment C-3, *PCB Data Summaries and Sample Maps*.

5 PHYSICAL HAZARDS

Physical hazards associated with Building 883 consists of those common to standard industrial environments, and include hazards associated with energized systems, utilities, and trips and falls. There are several below-grade pits, air tunnels and basement where heavy demolition equipment could fall through. The HPM Press bases and Loewy Press bases will remain in the building during demolition and will be removed after the super-structure debris is removed. A majority of the exterior transite wall paneling has been removed and thus a majority of the building is already open to the environment. The facility has been relatively well maintained and is in good physical condition, therefore, does not present hazards associated with building deterioration. Physical hazards are controlled by the Site Occupational Safety and Industrial Hygiene Program, which is based on OSHA regulations, DOE orders, and standard industry practices.

6 DATA QUALITY ASSESSMENT

Data used in making management decisions for decommissioning of Building 883, and consequent waste management, is of adequate quality to support the decisions documented in this report. The data presented in this report (Attachments B and C) were

verified and validated relative to DOE quality requirements, applicable EPA guidance, and original project DQOs.

In summary, the Verification and Validation (V&V) process corroborates that the following elements of the characterization process are adequate:

- the *number* of samples and surveys;
- the *types* of samples and surveys;
- the sampling/survey process as implemented "in the field"; and
- the laboratory analytical process, relative to accuracy and precision considerations.

Details of the DQA are provided in Attachment D.

7 DECOMMISSIONING WASTE TYPES AND VOLUME ESTIMATES

The demolition and disposal of Building 883 will generate a variety of wastes. Estimated waste types and waste volumes are presented below. All remaining surfaces will be managed as LLW-PCB Bulk Product Waste. The East Annex Pit 4 and the A-Side USI Pit will be managed as LLW-PCB remediation waste. PCB ballast and hazardous waste items have been removed and managed pursuant to Site PCB and waste management procedures. Building 883 concrete will not be used as onsite backfill.

WASTE TYPES AND VOLUME ESTIMATES

Facility	Concrete (cu ft)	Wood (cu ft)	Metal (cu ft)	Corrugated Sheet Metal (cu ft)	Wall Board (cu ft)	ACM (cu ft)	Other Waste (cu ft)
883	102,300	0	11,650	0	0	2	LLW-PCB remediation waste – 4,122

8 FACILITY CLASSIFICATION AND CONCLUSIONS

Based on the analysis of radiological, chemical and physical hazards, Building 883 is ready for demolition. The PDS for Building 883 was performed in accordance with the DDCP and PDSP, all PDSP DQOs were met, and all data satisfied the PDSP DQA criteria. The LLW radiological survey Data Quality Objectives (DQOs) were met by following Radiological Safety Practice procedures 3-PRO-165-07.02, *Contamination Monitoring Requirements*, and PRO-267-RSP-09.05, *Radiological Characterization for Surface Contaminated Objects*. Environmental media beneath and surrounding the facilities will be addressed at a future date in accordance with the Soil Disturbance Permit process and in compliance with RFCA.

PDS results indicated that RCRA/CERCLA constituents do not exist in excess of the PDSP unrestricted release limits. However, PCBs do exist in excess of the PDSP unrestricted release limits in two locations (A-Side USI Pit and East Annex Pit 4) and will be managed as LLW-PCB remediation waste. PCB-containing fluorescent light ballast and hazardous waste items (e.g., mercury thermostats, fluorescent light bulbs, mercury vapor light bulbs, mercury-containing gauges, circuit boards, leaded glass, and lead-acid batteries) were previously removed from the building and do not impact demolition activities.

Asbestos abatement was conducted in most areas of Building 883 prior to the PDS. Friable and non-friable asbestos containing building materials were removed per CDPHE, Regulation No. 8, Part B, *Emission Standards for Asbestos*. The only remaining asbestos in the building at the time of this report generation, is the exterior transite wall paneling on the A-Side and Room 111 walls, and a non-friable asphaltic coating on structural members of Rooms 106 and 108. These transite walls will be removed upon DOE and CDPHE approval, but before demolition of the building.

PDS results indicate that radiological contaminates exist in excess of the PDSP unrestricted release limits and fixatives were used to immobilize loose radiological contamination. Therefore, the entire remaining portions of the building will be managed as LLW-PCB Bulk Product Waste during demolition. The surfaces that will be removed and managed as LLW-PCB Bulk Product Waste include the remaining floor, wall and ceiling surfaces of the A-Side, B-Side, C-Side, North Side, Middle Area, East Annex, Basement, and Office Area. Although there were a few areas of Building 883 that met the PDSP unrestricted release limits, most of these areas (i.e., Office area and C-Side walls & ceiling, Room 212) have already been demolished (demolition was approved via RFCA Contact Records).

Fixatives were used to immobilize loose beryllium contamination. All post-fixative beryllium sample results were below the investigative level of 0.1 $\mu g/100cm^2$.

Based upon this PDSR, the Building 883 can be demolished and the waste managed as LLW-PCB Bulk Product Waste or LLW-PCB remediation waste, as applicable. None of the concrete will be used for onsite backfill. Under-slab utilities and piping systems shall be managed as radioactive and beryllium waste during demolition. To ensure that the facility remains free of further contamination and PDS data remain valid, Level 2 Isolation Controls have been established and the area posted accordingly.

15

9 REFERENCES

DOE/RFFO, CDPHE, EPA, 1996. *Rocky Flats Cleanup Agreement (RFCA)*, July 19, 1996.

DOE Order 5400.5, *Radiation Protection of the Public and the Environment*

DOE Order 414.1A, *Quality Assurance*

EPA, 1994. *The Data Quality Objective Process,* EPA QA/G-4.

K-H, 1999. *Decommissioning Program Plan*, June 21, 1999.

MAN-131-QAPM, *Kaiser-Hill Team Quality Assurance Program*, Rev. 1, November 1, 2001.

MAN-076-FDPM, *Facility Disposition Program Manual*, Rev. 3, January 1, 2002.

MAN-077-DDCP, *Decontamination and Decommissioning Characterization Protocol*, Rev. 4, July 15, 2002.

MAN-127-PDSP, *Pre-Demolition Survey Plan for D&D Facilities*, Rev. 1, July 15, 2002.

MARSSIM - *Multi-Agency Radiation Survey and Site Investigation Manual* (NUREG-1575, EPA 402-R-97-016).

PRO-475-RSP-16.01, *Radiological Survey/Sampling Package Design, Preparation, Control, Implementation, and Closure,* Rev. 1, May 22, 2001.

PRO-476-RSP-16.02, *Pre-Demolition (Final Status) Radiological Surveys of Surfaces and Structures*, Rev. 1, May 22, 2001.

PRO-477-RSP-16.03, *Radiological Samples of Building Media*, Rev. 1, May 22, 2001.

PRO-478-RSP-16.04, *Radiological Survey/Sample Data Analysis for Final Status Survey*, Rev. 1, May 22, 2001.

PRO-479-RSP-16.05, *Radiological Survey/Sample Quality Control for Final Status Survey*, Rev. 1, May 22, 2001.

PRO-563-ACPR, *Asbestos Characterization Procedure,* Revision 0, August 24, 1999.

PRO-536-BCPR, *Beryllium Characterization Procedure*, Revision 0, August 24, 1999.

RFETS, Environmental Waste Compliance Guidance #25, Management of Polychlorinated Biphenyls (PCBs) in Paint and Other Bulk Product Waste During Facility Disposition.

RFETS, Environmental Waste Compliance Guidance #27, Lead-Based Paint (LBP) and Lead-Based Paint Debris Disposal.

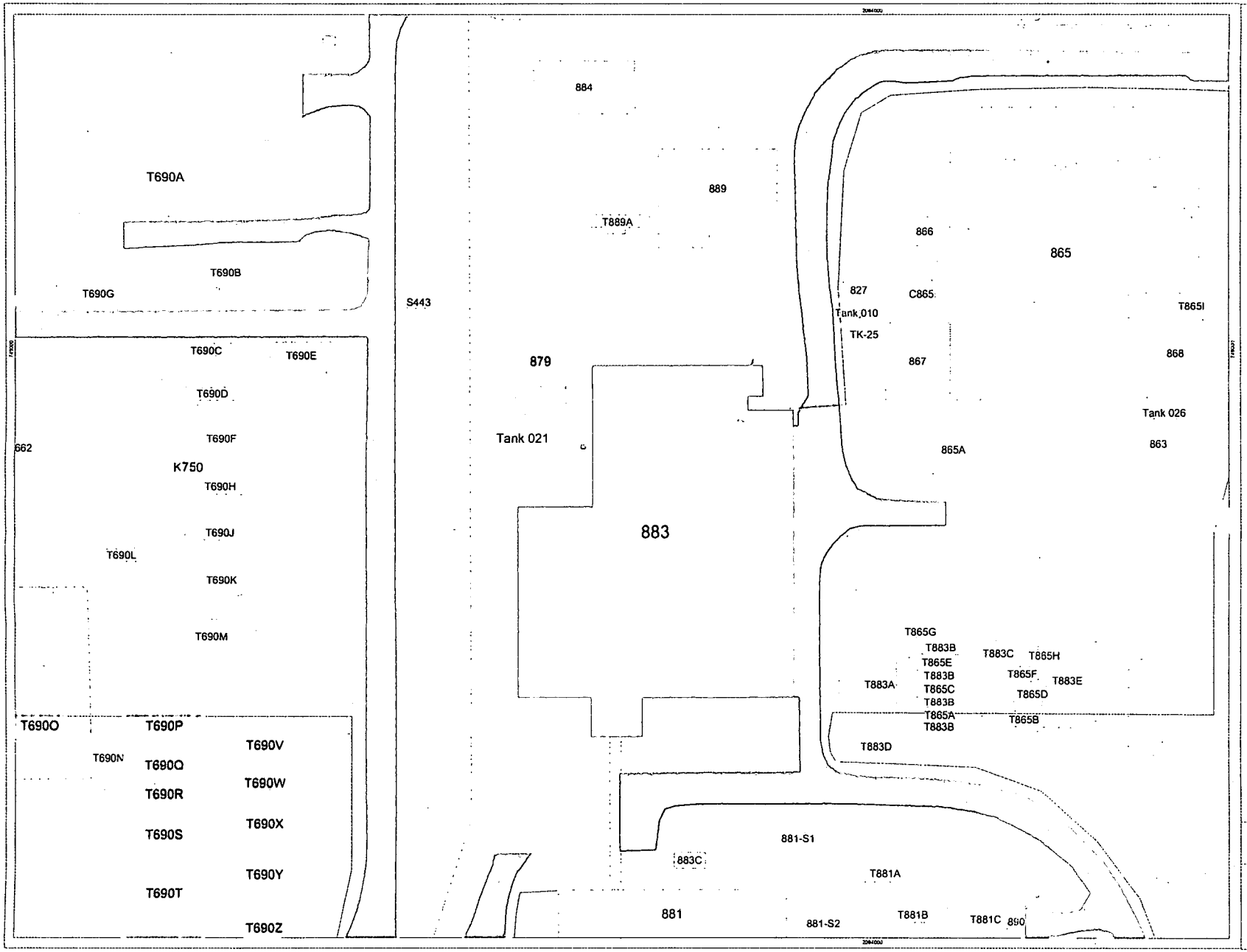
RFETS, RFCA RSOP for Recycling Concrete, September 28, 1999

Reconnaissance Level Characterization Report For Buildings 883 and 879, Dated October 17, 2001, Revision 0.

Building 883 Cluster Historical Site Assessment Report, Dated July 2001, incorporated as part of Buildings 883 and 879 RLCR, dated October 2001.

ATTACHMENT A

Facility Location Map and Key Maps



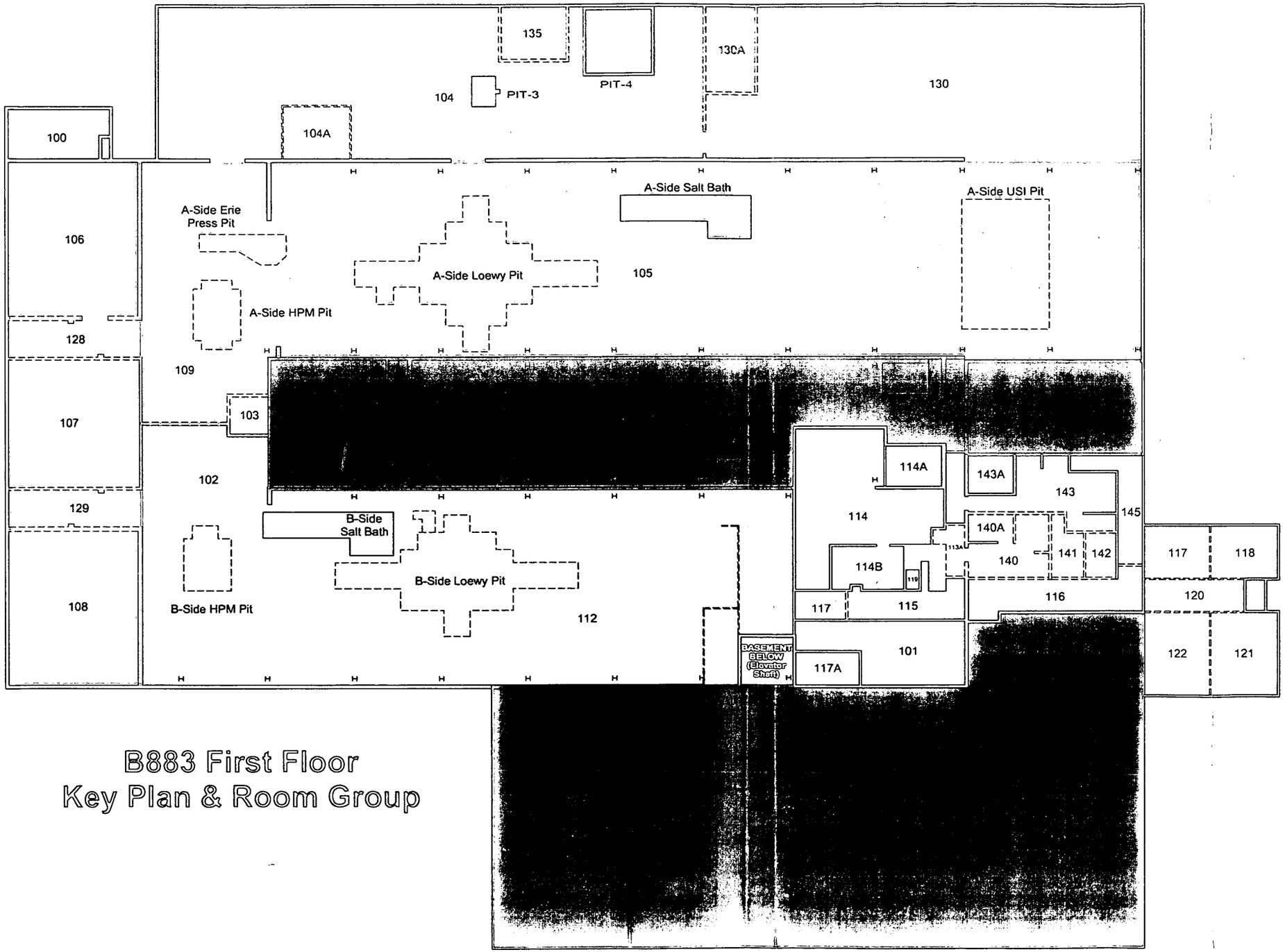
Rocky Flats Environmental Technology Site

Building 883 Location Map

Map Features

- Buildings Remaining
- 883
- D&D Facility
- Paved Roads
- Dirt Roads
- Railroad Removed
- Railroad Remaining
- Fence Removed
- Fence Remaining
- Streams

Rev 1.



B883 First Floor
Key Plan & Room Group

Legend:

- East Annex
- A-Side
- Center Area
- B-Side
- C-Side
- Office Aera
- North Side
- Walls Removed

0 FEET 30

0 METERS 10

1 inch = 24 feet 1 grid sq. = 1 sq. m.

N

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707

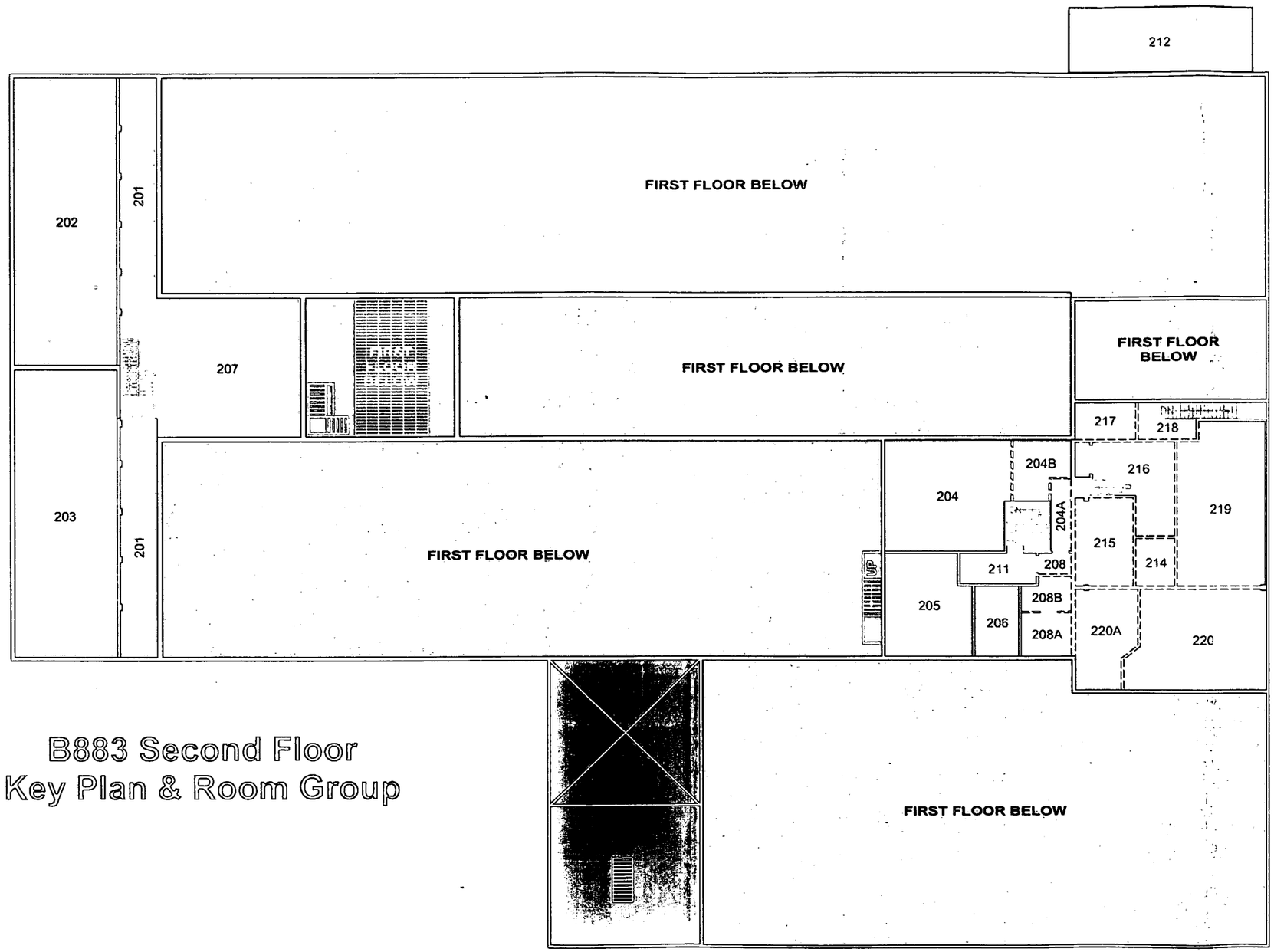
Prepared for:

CH2MHILL Communications Group

KAISER-HILL COMPANY

MAP ID: 03-0000/B883_KP_Ar_1

Jan. 6, 2004



B883 Second Floor Key Plan & Room Group

Legend:

- East Annex
- C-Side
- Office Area
- North Area
- Walls Removed

0 FEET 30

0 METERS 10

1 inch = 24 feet 1 grid sq. = 1 sq. m.

N

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707

Prepared for:

CH2MHILL Communications Group

KAISER-HILL COMPANY

MAP ID: 03-0000/B883_2nd FLR KP Jan. 6, 2004

20

ATTACHMENT B-1

A-Side LLW Surveys

PRE-FIXATIVE LLW SURVEYS

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	N/A %
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	76.2 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	N/A dpmβ

Survey Tracking # 883-04-S1213

Survey Type: Contamination

Building: 883

Location: Contamination Area

Purpose: 883-2W (Pre-fixative)

RWP #: 04-880-0002

Date: 12/29//2004 Time: 1030

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclideof concern is depleted uranium . Survey performed weekly in B883 contamination area when accessed. Correction factors for DU applied. Paper swipes were used. See maps .

SURVEY RESULTS

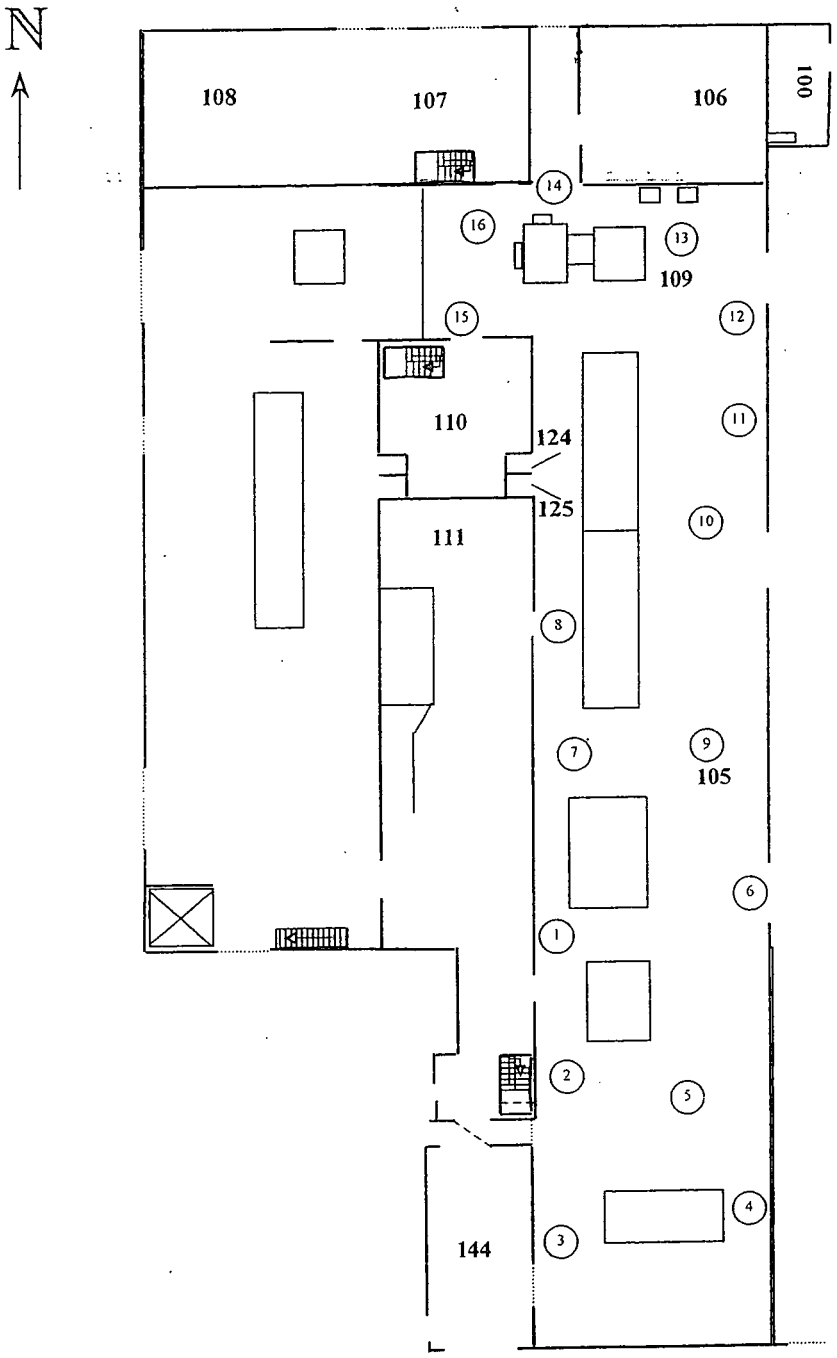
#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Floor	41	N/A	N/A	<205	N/A	N/A
2	Floor	34	N/A	N/A	211	N/A	N/A
3	Floor	<18	N/A	N/A	<205	N/A	N/A
4	Floor	57	N/A	N/A	319	N/A	N/A
5	Floor	33	N/A	N/A	467	N/A	N/A
6	Floor	<18	N/A	N/A	<205	N/A	N/A
7	Floor	54	N/A	N/A	619	N/A	N/A
8	Floor	<18	N/A	N/A	<205	N/A	N/A
9	Floor	<18	N/A	N/A	<205	N/A	N/A
10	Floor	48	N/A	N/A	298	N/A	N/A
11	Floor	24	N/A	N/A	<205	N/A	N/A
12	Floor	<18	N/A	N/A	<205	N/A	N/A
13	Floor	22	N/A	N/A	<205	N/A	N/A
14	Floor	24	N/A	N/A	<205	N/A	N/A
15	Floor	102	N/A	N/A	867	N/A	N/A
16	Floor	36	N/A	N/A	250	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	[redacted]					

Date Reviewed: 1/3/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

COPY



883-04-S 1213

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	2373
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	7.0 cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	22.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	68 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	2373
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	72.0 cpmβ	Bkg	N/A cpmβ	Bkg	444.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	458 dpmβ

Survey Tracking # 883-04-S1254

Survey Type: Contamination

Building: 883

Location: G3 (Pre-Fixative)

Purpose: Post Decon Survey East , West,South Wall

RWP #: 04-880-0001 COPY

Date: 1/10/05 Time: 1500

RCT [redacted]

Print name Signature Emp. #

RCT: NA / NA / NA

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium. Survey performed as post decon survey for East,West and South Walls. Swipes taken on walls and beams. SEE MAP.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	East Wall	110	N/A	N/A	4604	N/A	N/A
2	East Beam	283	3614	N/A	6168	30009	N/A
3	East Wall	75	545	N/A	9200	14678	N/A
4	East Wall	868	N/A	N/A	8576	N/A	N/A
5	East Beam	954	N/A	N/A	1132	N/A	N/A
6	East Wall	75	220	N/A	1804	4736	N/A
7	East Beam	140	N/A	N/A	2008	N/A	N/A
8	East Wall	83	N/A	N/A	648	N/A	N/A
9	East Crane Rail	313	582	N/A	2528	6837	N/A
10	East Beam	181	N/A	N/A	1504	N/A	N/A
11	East Beam	119	N/A	N/A	6616	N/A	N/A
12	East Wall	287	N/A	N/A	11980	N/A	N/A
13	East Wall	375	91	N/A	3460	7587	N/A
14	East Crane Rail	110	N/A	N/A	1864	N/A	N/A
15	East Wall	374	N/A	N/A	3460	N/A	N/A
16	East Beam	175	N/A	N/A	1864	N/A	N/A
17	East Wall	448	N/A	N/A	3416	N/A	N/A
18	East Beam	92	525	N/A	4888	5555	N/A
19	East Wall	448	N/A	N/A	3416	N/A	N/A
20	East Crane Rail	92	N/A	N/A	720	N/A	N/A

Date Reviewed: 1/15/05 **RS Supervision:** [redacted]

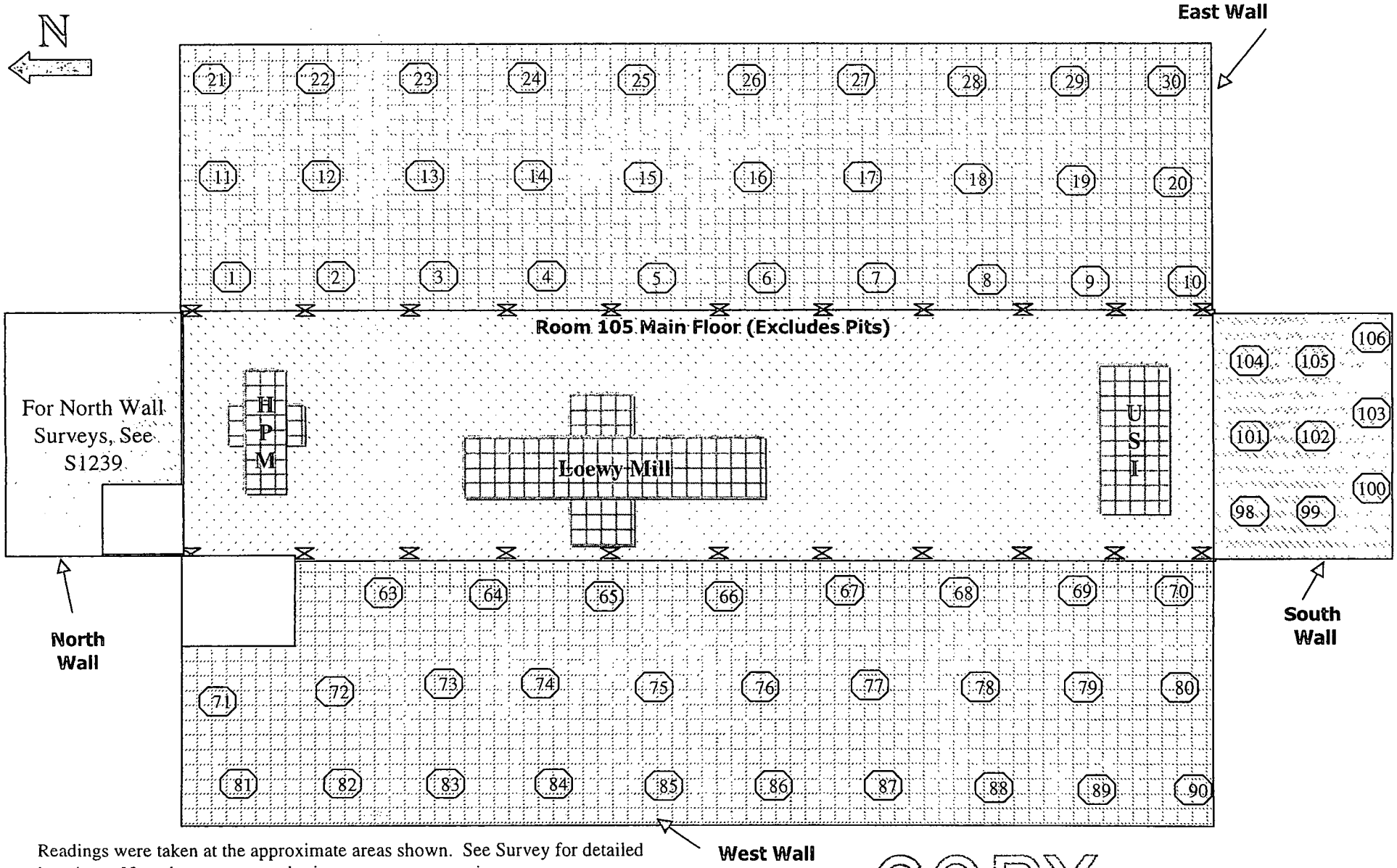
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	East Wall	868	N/A	N/A	8576	N/A	N/A
22	East Wall	1292	N/A	N/A	440	N/A	N/A
23	East Crane Beam	283	3614	N/A	6168	30009	N/A
24	East Beam	697	1365	N/A	1540	31045	N/A
25	East Beam	1245	N/A	N/A	360	N/A	N/A
26	East Crane Beam	347	171	N/A	1450	21572	N/A
27	East Beam	571	3760	N/A	600	31986	N/A
28	East Wall	1781	N/A	N/A	920	N/A	N/A
29	East Crane Beam	308	N/A	N/A	1276	N/A	N/A
30	East Wall	742	N/A	N/A	2604	N/A	N/A
63	West Wall	23	N/A	N/A	1448	N/A	N/A
64	WestCrane Rail	83	84	N/A	684	6886	N/A
65	N/A	89	N/A	N/A	1104	N/A	N/A
66	West Wall	293	N/A	N/A	3148	N/A	N/A
67	West Wall	497	N/A	N/A	1256	N/A	N/A
68	West Wall	138	3309	N/A	4418	36273	N/A
69	WestCrane Rail	46	<68	N/A	5455	3577	N/A
70	West Wall	72	102	N/A	5500	6818	N/A
71	Beam	92	N/A	N/A	1472	N/A	N/A
72	West Wall	129	N/A	N/A	816	N/A	N/A
73	West Wall	86	N/A	N/A	1472	N/A	N/A
74	West Crane Rail	175	<68	N/A	1764	7636	N/A
75	West Wall	181	N/A	N/A	1024	N/A	N/A
76	West Wall	118	222	N/A	1420	7364	N/A
77	West Wall	178	N/A	N/A	650	N/A	N/A
78	Beam	35	86	N/A	1760	6054	N/A
79	West Wall	227	N/A	N/A	1072	N/A	N/A
80	West Wall	83	N/A	N/A	1224	N/A	N/A
81	West Wall	106	N/A	N/A	788	N/A	N/A
82	West Crane Rail	141	4305	N/A	1960	199092	N/A
83	West Wall	35	N/A	N/A	604	N/A	N/A
84	Beam	37	N/A	N/A	672	N/A	N/A
85	West Wall	63	<68	N/A	720	909	N/A
86	West Crane Rail	66	N/A	N/A	780	N/A	N/A
87	Beam	23	N/A	N/A	504	N/A	N/A
88	West Wall	52	N/A	N/A	600	N/A	N/A
89	West Wall	32	N/A	N/A	456	N/A	N/A
90	West Wall	175	N/A	N/A	820	N/A	N/A
98	South Wall	82	N/A	N/A	516	N/A	N/A
99	South Wall	104	N/A	N/A	432	N/A	N/A
100	South Wall	60	N/A	N/A	1004	N/A	N/A
101	South Beam	241	86	N/A	2046	5280	N/A
102	South Wall	46	N/A	N/A	792	N/A	N/A
103	South Beam	310	316	N/A	3408	9398	N/A
104	South Wall	26	N/A	N/A	392	N/A	N/A
105	South Wall	23	N/A	N/A	580	N/A	N/A
106	South Wall	440	N/A	N/A	4092	N/A	N/A

Bldg. 883 A-Side/G3

Wall Areas Post-Pressure Wash Characterization



Readings were taken at the approximate areas shown. See Survey for detailed locations. Note that survey numbering was not consecutive, as some post-pressure wash locations/points are included on other surveys.

COPY

31

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1432
Cal Due	4/21/05	Cal Due	N/A	Cal Due	5/8/05
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	2.0 cpmα
Efficiency	35.10 %	Efficiency	N/A %	Efficiency	22.30 %
MDA	18 dpmα	MDA	N/A dpmα	MDA	42 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1432
Cal Due	4/21/05	Cal Due	N/A	Cal Due	5/8/05
Bkg	81.0 cpmβ	Bkg	N/A cpmβ	Bkg	457.0 cpmβ
Efficiency	25.00 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	178 dpmβ	MDA	N/A dpmβ	MDA	464 dpmβ

Survey Tracking # 883-04-S1239

Survey Type: Contamination

Building: 883 Room 105 Areas

Location: North Wall/West Wall/East Wall

Purpose: Characterization (Pre-Fixative)

RWP #: 05-880-0001

Date: 1/7/05 Time: 1600

[redacted]

RCT: NA / NA / NA

Print name Signature Emp. #

PRN/REN #: N/A

Comments: Nuclide of concern is Depleted Uranium correction factor adjusted above. Survey performed to characterize conditions on the walls and the floor up to HPM press. All surveys are below crane rails.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	North Wall Lower Beam	142	300	N/A	4k	160k	N/A
2	NorthWall Midway Beam	33	120	N/A	1k	10k	N/A
3	North Wall Upper Beam	42	420	N/A	1k	2k	N/A
4	Lower North Wall	56	300	N/A	2k	20k	N/A
5	North Wall Middle	42	300	N/A	2k	4k	N/A
6	Upper North Wall	72	180	N/A	2k	2k	N/A
7	North Wall Meets Floor	118	180	N/A	6k	40k	N/A
8	East Wall Lower	32	120	N/A	4k	15k	N/A
9	East Wall Lower	23	120	N/A	8k	15k	N/A
10	East Wall Lower	21	120	N/A	8k	15k	N/A
11	East Wall Upper	54	120	N/A	1k	3k	N/A
12	East Wall Upper	56	120	N/A	1k	4k	N/A
13	East Wall Upper	72	120	N/A	1k	4k	N/A
14	East Wall Seams w/Tape	120	120	N/A	1k	4k	N/A
15	West Wall Lower	32	72	N/A	1k	3k	N/A
16	West Wall Lower	21	72	N/A	1k	3k	N/A
17	West Wall Lower	21	72	N/A	1k	4k	N/A
18	West Wall Upper	34	120	N/A	2k	4k	N/A
19	West Wall Upper	34	120	N/A	2k	4k	N/A
20	West Wall Upper	72	120	N/A	3k	4k	N/A

Date Reviewed: 1/10/05 **RS Supervision:** [redacted]

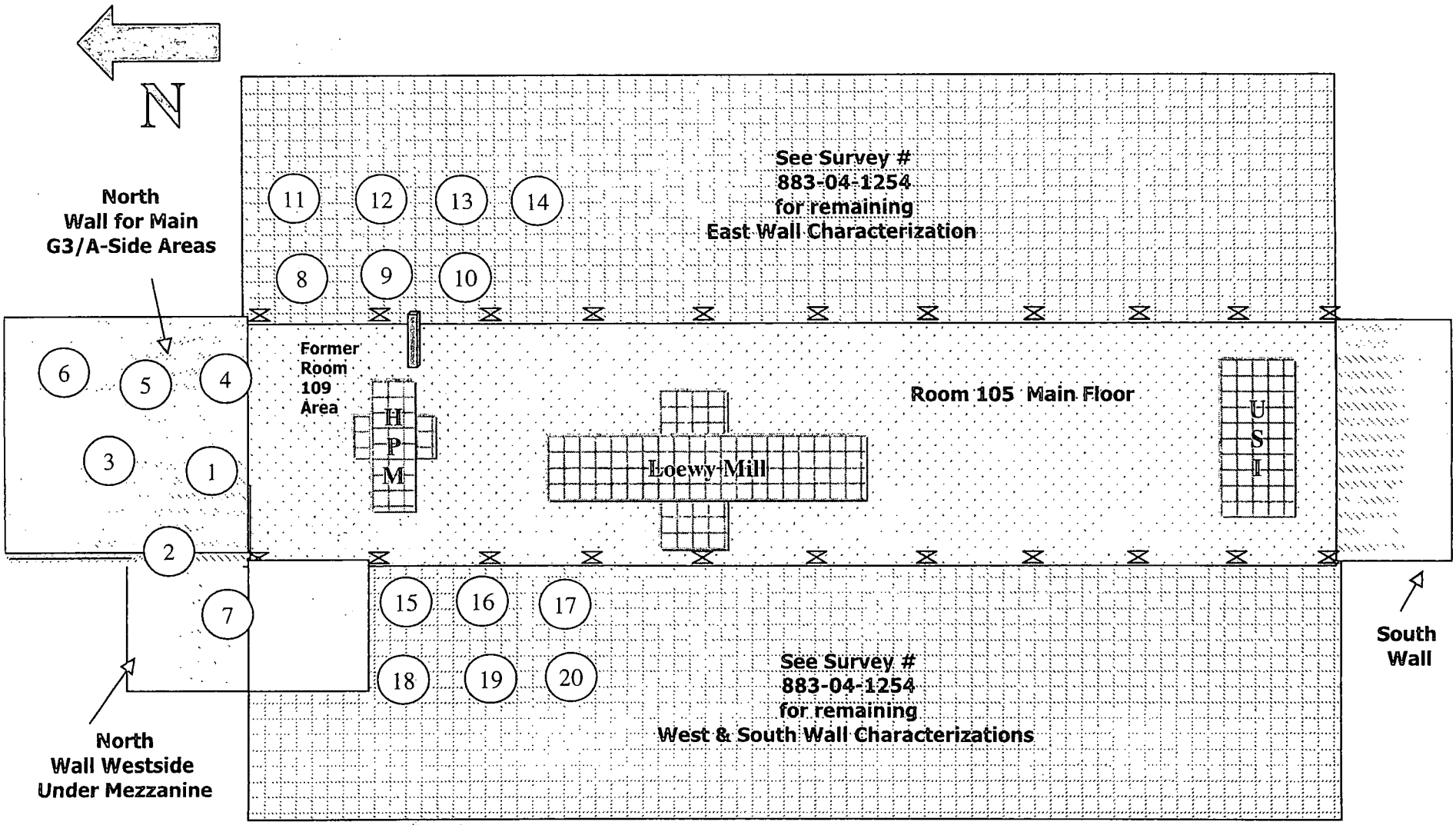
Print Name Signature Emp. #

COPY

Bldg. 883 A-Side/G3

Northern Wall Areas Post-Pressure Wash Characterization

Survey# 883-04-S1239



Readings were taken at the approximate areas shown. See Page 1 for additional information on survey locations.

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	N/A	Model	SAC-4	Model	DP-6
Serial #	N/A	Serial #	N/A	Serial #	2373
Cal Due	N/A	Cal Due	N/A	Cal Due	4/26/05
Bkg	N/A cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	N/A %	Efficiency	N/A %	Efficiency	22.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	64 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	N/A	Model	BC-4	Model	DP-6
Serial #	N/A	Serial #	N/A	Serial #	2373
Cal Due	N/A	Cal Due	N/A	Cal Due	4/26/05
Bkg	N/A cpmβ	Bkg	N/A cpmβ	Bkg	451.0 cpmβ
Efficiency	N/A %	Efficiency	N/A %	Efficiency	22.00 %
MDA	####### dpmβ	MDA	200 dpmβ	MDA	461 dpmβ

Survey Tracking # 883-04-S1261

Survey Type: Contamination

Building: 883

Location: A-SIDE OVERHEAD CRANE

Purpose: POST-POWERWASH (Pre-Fixative)

RWP #: 05-880-0001

Date: 1/13/05 Time: 1000

RC[redacted]

Print name / Signature / Emp. #

RCT: NA / NA / NA

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed to characterize contamination levels after powerwashing and before painting. Most horizantal surfaces of crane still have grease, oil, dust and/or debris on surface. Paint will not adhere to these dirty surfaces very well.

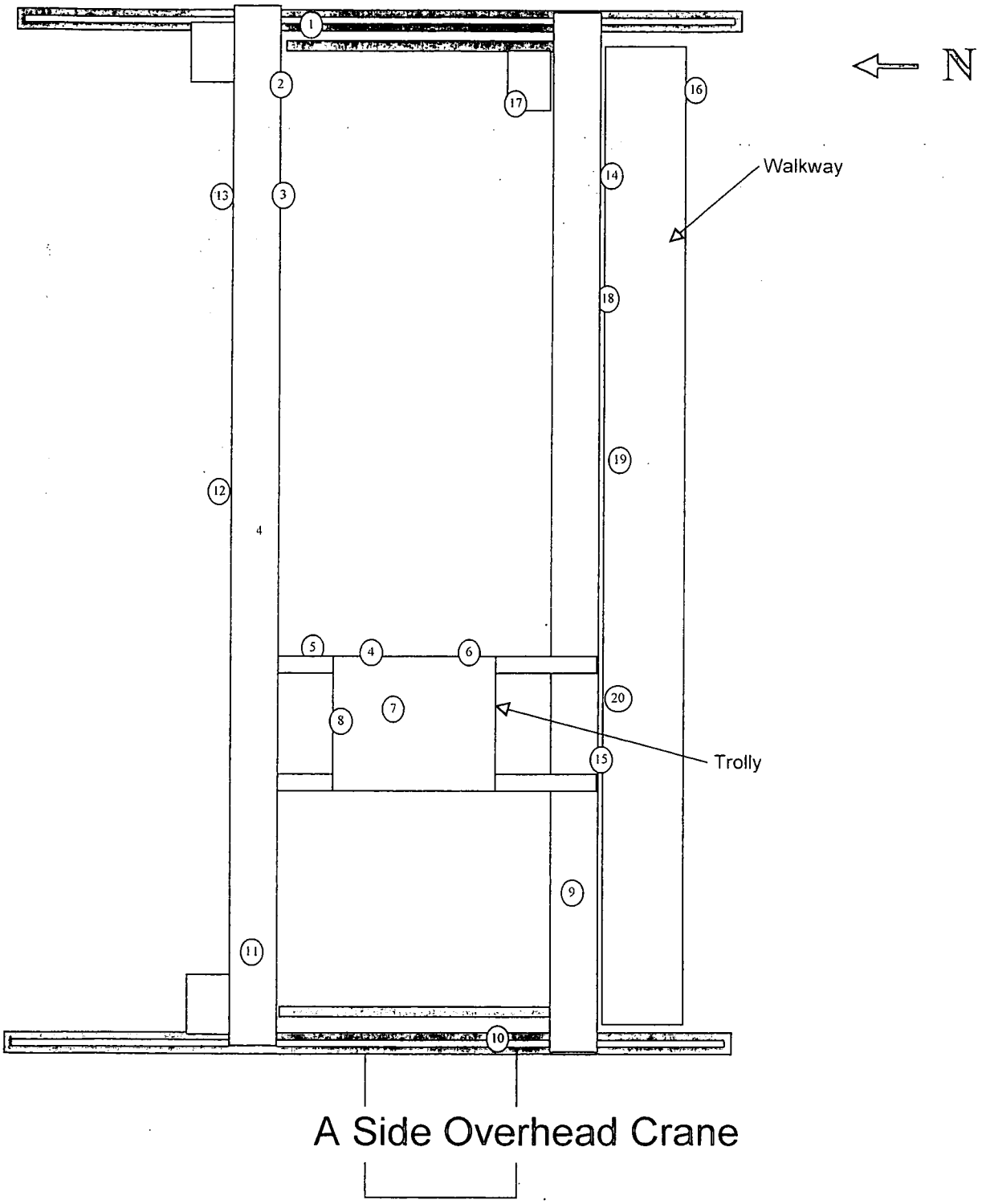
SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	EAST RAIL	<64	500	N/A	15000	450000	N/A
2	NORTH BRIDGE RAIL	<64	300	N/A	7000	350000	N/A
3	NORTH BRIDGE RAIL	<64	2500	N/A	7000	500000	N/A
4	TROLLY	<64	1200	N/A	15000	100000	N/A
5	TROLLY	<64	300	N/A	10000	50000	N/A
6	TROLLY	<64	100	N/A	15000	350000	N/A
7	TROLLY	<64	1000	N/A	10000	700000	N/A
8	TROLLY	<64	50	N/A	15000	200000	N/A
9	SOUTH BRIDGE RAIL	<64	35000	N/A	2000	900000	N/A
10	WEST RAIL	<64	520	N/A	15000	500000	N/A
11	NORTH BRIDGE RAIL	<64	150	N/A	5000	150000	N/A
12	NORTH BRIDGE RAIL	<64	100	N/A	20000	550000	N/A
13	NORTH BRIDGE RAIL	<64	<64	N/A	5000	350000	N/A
14	SOUTH BRIDGE RAIL	<64	<64	N/A	15000	200000	N/A
15	SOUTH BRIDGE RAIL	<64	<64	N/A	10000	500000	N/A
16	WALKWAY	<64	1000	N/A	15000	700000	N/A
17	OPERATORS BOOTH	<64	1200	N/A	15000	1000000	N/A
18	WALKWAY	<64	750	N/A	20000	500000	N/A
19	WALKWAY	<64	500	N/A	10000	700000	N/A
20	WALKWAY	<64	1000	N/A	15000	500000	N/A

Date Reviewed: 1/15/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



883-04-51261

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1432
Cal Due	4/21/05	Cal Due	N/A	Cal Due	5/8/05
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	2.0 cpmα
Efficiency	35.10 %	Efficiency	N/A %	Efficiency	22.30 %
MDA	18 dpmα	MDA	N/A dpmα	MDA	42 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1432
Cal Due	4/21/05	Cal Due	N/A	Cal Due	5/8/05
Bkg	81.0 cpmβ	Bkg	N/A cpmβ	Bkg	457.0 cpmβ
Efficiency	25.00 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	178 dpmβ	MDA	N/A dpmβ	MDA	464 dpmβ

Survey Tracking # 883-04-S1240

Survey Type: Contamination

Building: 883

Location: A-Side Overhead Supply Duct Survey

Purpose: Characterization (Pre-Fixative)

RWP #: 05-880-0001

Date: 1/7/05 Time: 1600

RC[redacted]

Print name	Signature	Emp. #

RCT: NA / NA / NA

Print name	Signature	Emp. #

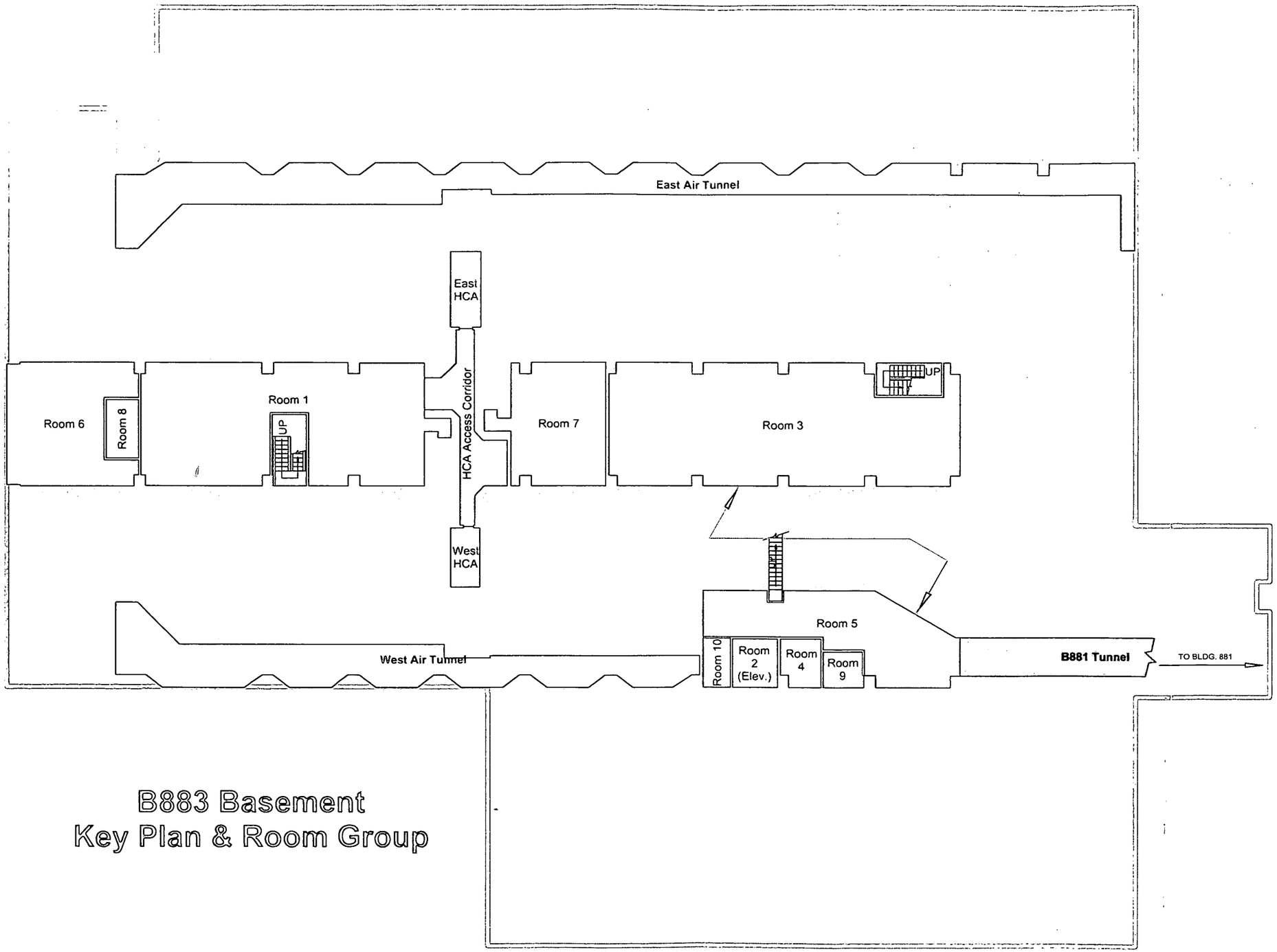
PRN/REN #: N/A

Comments: Nuclide of concern is Depleted Uranium correction factor adjusted above. Survey peformed inside and outside of the duct. Survey for 41 and 42 were above MDA. See survey 49 and 50 for resurvey for clean results.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Northeast Inside Duct	<18	<42	N/A	<178	850	N/A
2	Northwest Inside Duct	<18	<42	N/A	<178	850	N/A
3	North Center Duct Inside	<18	<42	N/A	<178	850	N/A
4	Northwest Center Most Duct Inside	<18	<42	N/A	<178	850	N/A
5	Northeast Inside Center Most	<18	<42	N/A	<178	850	N/A
6	Center Duct East Inside	<18	<42	N/A	<178	850	N/A
7	Center Duct East Inside	<18	<42	N/A	<178	850	N/A
8	Center Duct East Inside	<18	<42	N/A	<178	850	N/A
9	Center Duct East Inside	<18	<42	N/A	<178	850	N/A
10	Center Duct West Inside	<18	<42	N/A	<178	850	N/A
11	Center Duct West Inside	<18	<42	N/A	<178	850	N/A
12	Center Duct West Inside	<18	<42	N/A	<178	850	N/A
13	Center Duct West Inside	<18	<42	N/A	<178	850	N/A
14	South Center Duct	<18	<42	N/A	<178	850	N/A
15	Southwest Inside Duct	<18	<42	N/A	<178	850	N/A
16	Southwest Inside Duct	<18	<42	N/A	<178	850	N/A
17	Southwest Inside Duct	<18	<42	N/A	<178	850	N/A
18	SoutheastInside Duct	<18	<42	N/A	<178	850	N/A
19	SoutheastInside Duct	<18	<42	N/A	<178	850	N/A
20	SoutheastInside Duct	<18	<42	N/A	<178	850	N/A

Date Reviewed: 1/7/05 **RS Supervision:** [redacted]



B883 Basement
Key Plan & Room Group

Legend:

Basement

0 FEET 30

0 METERS 10

N

1 inch = 24 feet 1 grid sq. = 1 sq. m.

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707

Prepared for:

CH2MHILL Communications Group

KAISER-HILL COMPANY

MAP ID: 03-0000/B883_Base KP

Jan. 6, 2004

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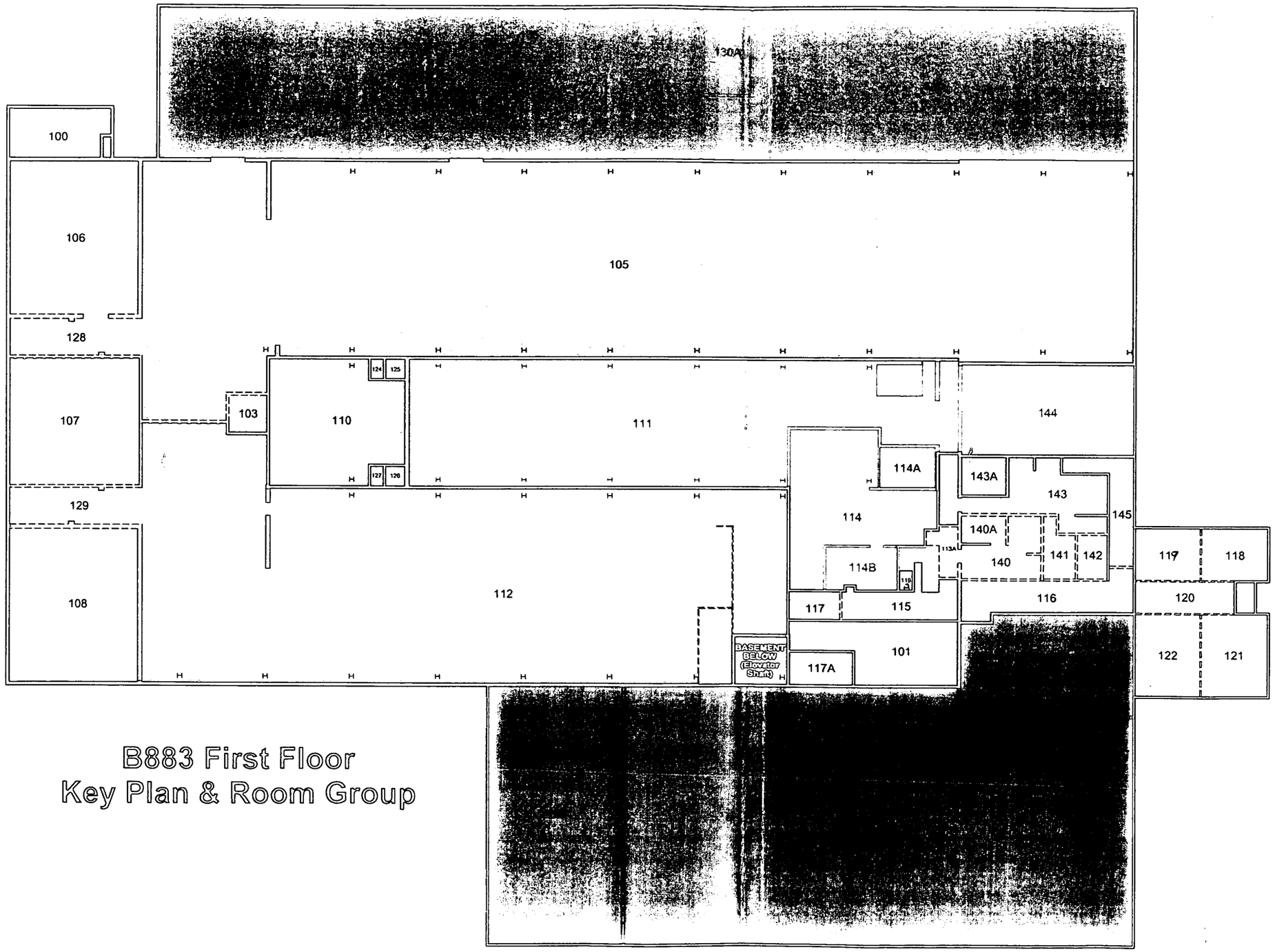


B883 First Floor
Key Plan & Room Group

Room Group Legend:

- Room Group 2
- Room Group 3
- Room Group 4
- Room Group 5
- Room Group 6
- Room Group 8
- Walls Removed

0 FEET 30

0 METERS 10

N

1 inch = 24 feet 1 grid sq. = 1 sq. m.

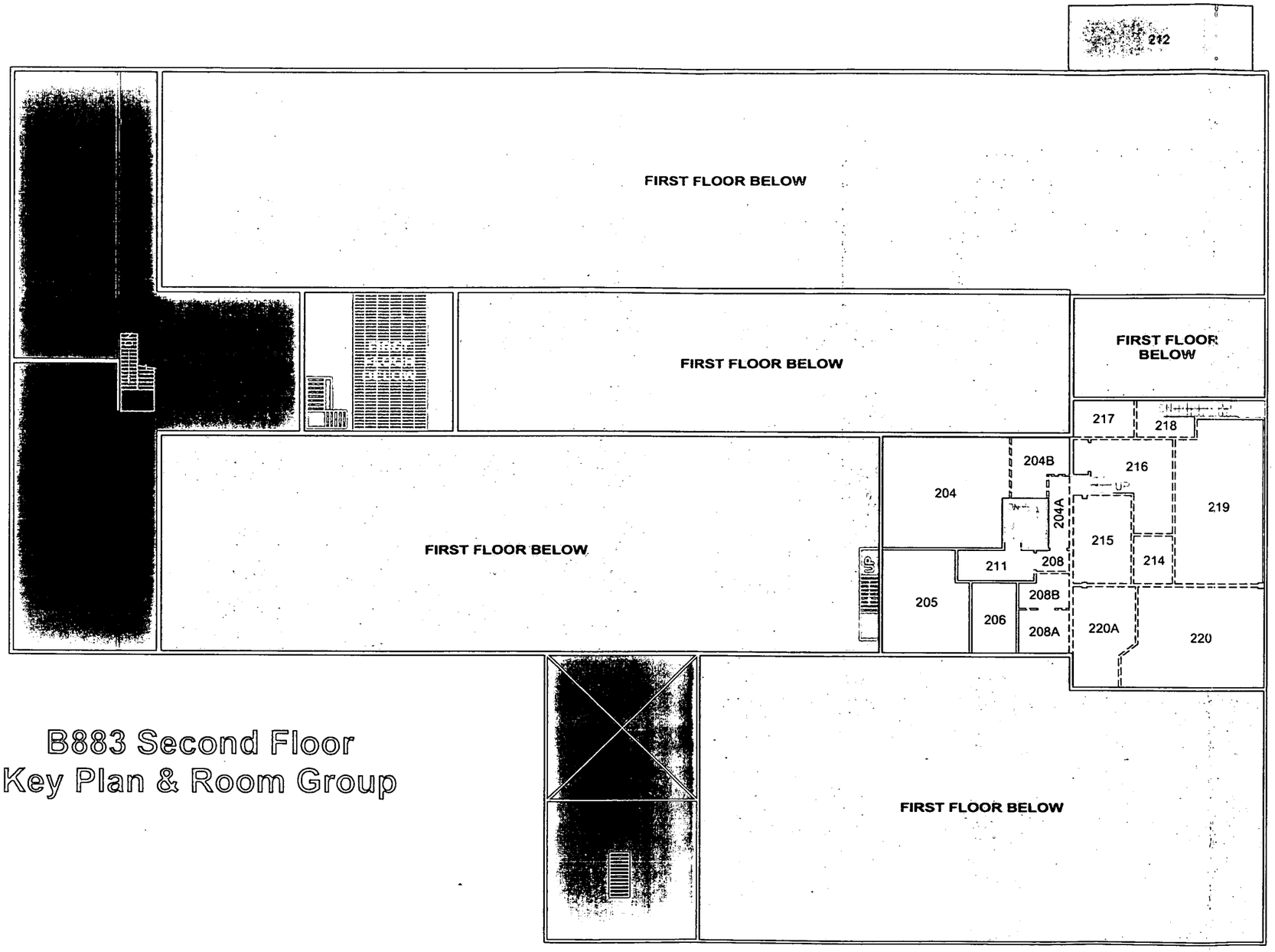
U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707 Prepared for:

CH2MHILL Communications Group

KAISER-HILL

MAP ID: 03-0000/B883_1st FLR KP Jan. 6, 2004



B883 Second Floor Key Plan & Room Group

Room Group Legend:

- Room Group 2
- Room Group 6
- Room Group 8
- Room Group 9
- Walls Removed

0 FEET 30

0 METERS 10

N

1 inch = 24 feet 1 grid sq. = 1 sq. m.

U.S. Department of Energy
Rocky Flats Environmental Technology Site

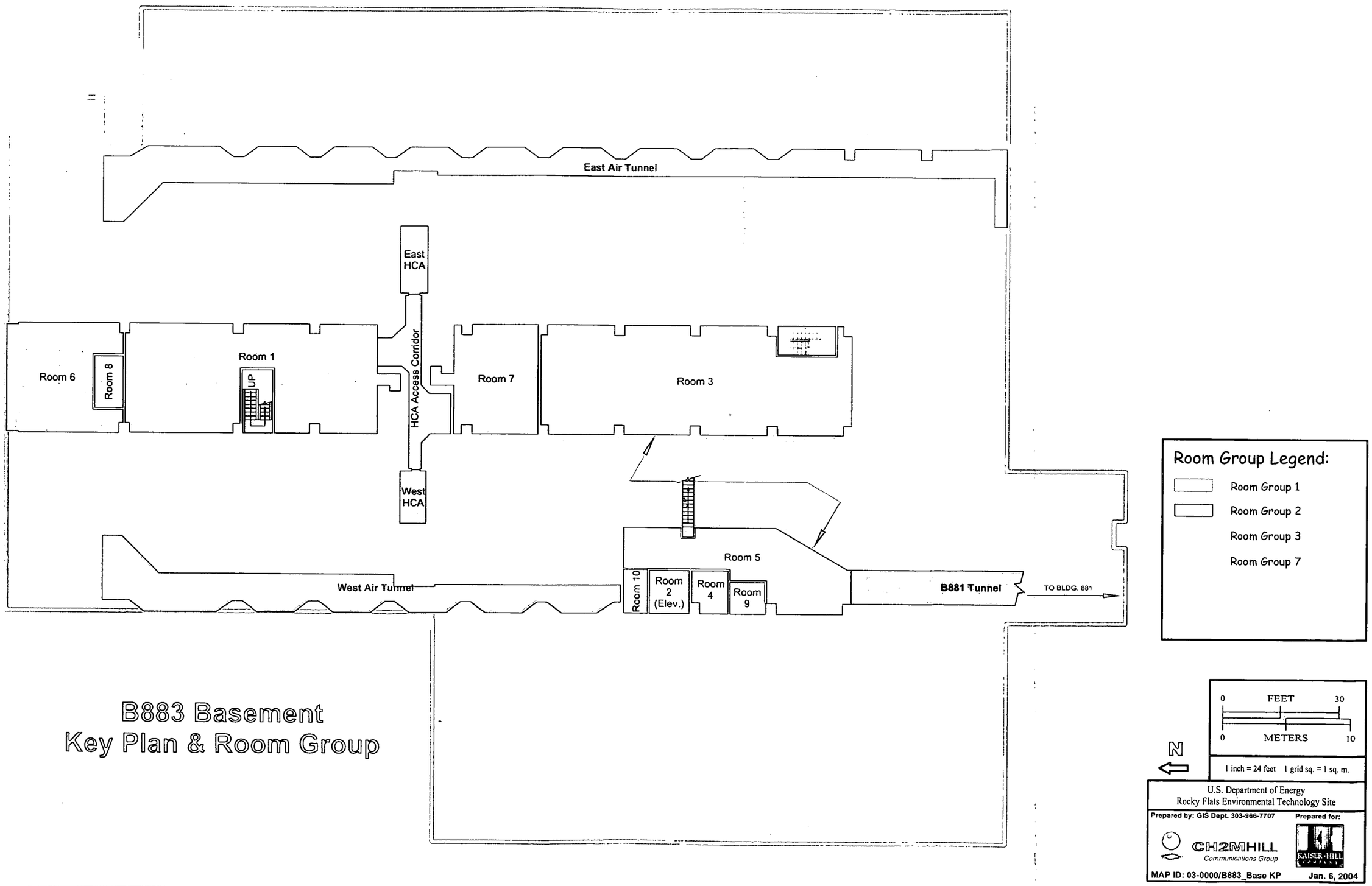
Prepared by: GIS Dept. 303-966-7707

Prepared for:

CH2MHILL Communications Group

KAISER-HILL COMPANY

MAP ID: 03-0000/B883_2nd FLR KP Jan. 6, 2004


East Air Tunnel
East HCA
Room 6
Room 8
Room 1
UP
HCA Access Corridor
Room 7
Room 3
West HCA
Room 5
West Air Tunnel
Room 10
Room 2 (Elev.)
Room 4
Room 9
B881 Tunnel
TO BLDG. 881
Room Group Legend:
Room Group 1
Room Group 2
Room Group 3
Room Group 7
B883 Basement
Key Plan & Room Group
0 FEET 30
0 METERS 10
N
1 inch = 24 feet 1 grid sq. = 1 sq. m.
U.S. Department of Energy
Rocky Flats Environmental Technology Site
Prepared by: GIS Dept. 303-966-7707
Prepared for:
CH2MHILL
Communications Group
KAISER-HILL
MAP ID: 03-0000/B883_Base KP
Jan. 6, 2004

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

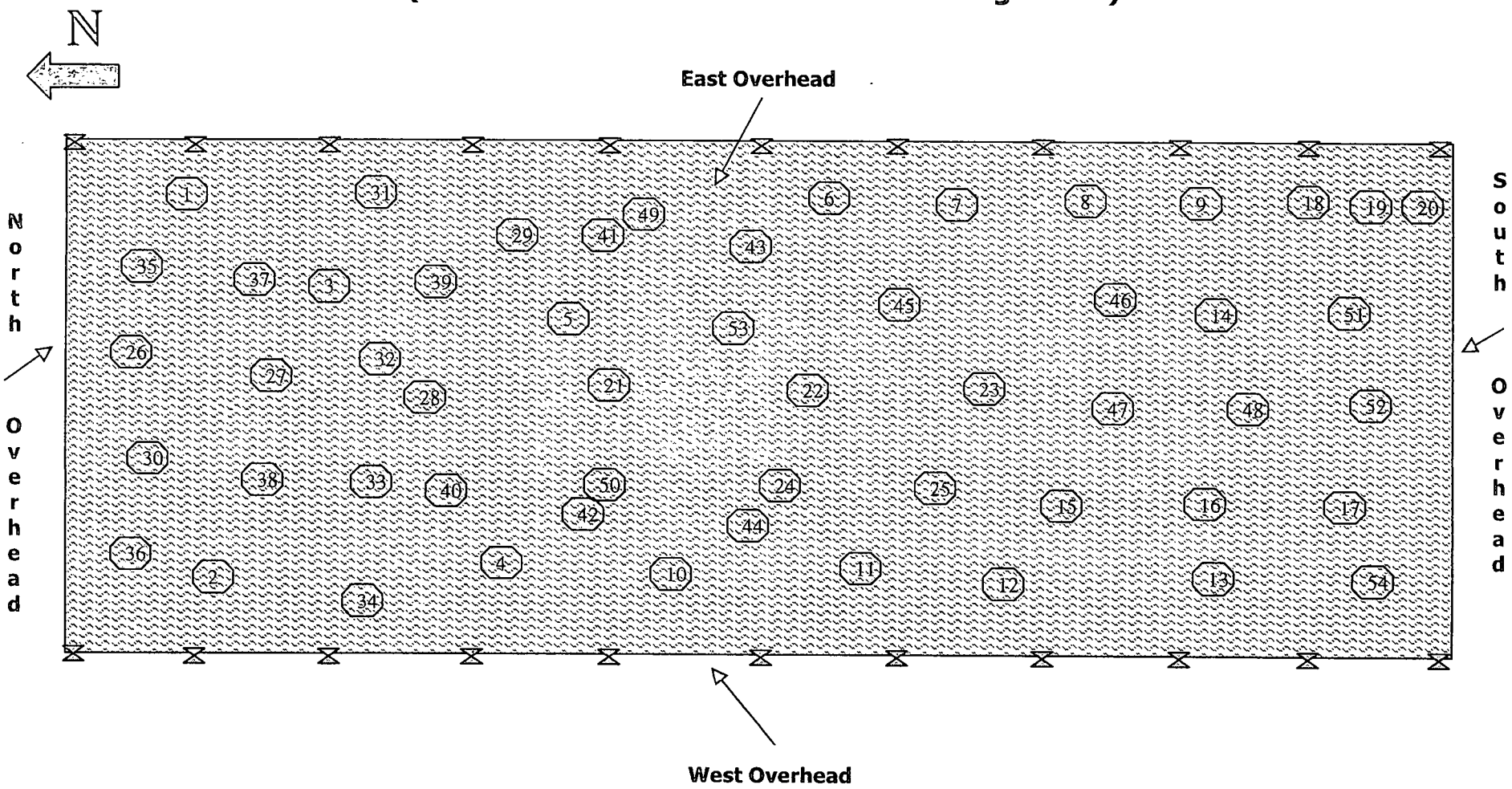
SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Center Duct East	<18	<42	N/A	<178	<850	N/A
22	Center Duct East	<18	N/A	N/A	<178	<850	N/A
23	Center Duct East	<18	N/A	N/A	<178	<850	N/A
24	Center Duct West	<18	N/A	N/A	<178	<850	N/A
25	Center Duct West	<18	N/A	N/A	<178	<850	N/A
26	North Overhead Ceiling	<18	N/A	N/A	<178	<850	N/A
27	North Overhead Ceiling	<18	N/A	N/A	<178	<850	N/A
28	North Overhead Ceiling	<18	N/A	N/A	<178	<850	N/A
29	North Overhead Ceiling	<18	N/A	N/A	<178	<850	N/A
30	North Overhead Ceiling	<18	N/A	N/A	<178	<850	N/A
31	North Overhead Beam	<18	N/A	N/A	<178	<850	N/A
32	North Overhead Beam	<18	N/A	N/A	<178	<850	N/A
33	North Overhead Beam	<18	N/A	N/A	<178	<850	N/A
34	North Overhead Beam	<18	N/A	N/A	<178	<850	N/A
35	North Topside of Duct	<18	N/A	N/A	<178	<850	N/A
36	North Topside of Duct	<18	N/A	N/A	<178	<850	N/A
37	North Topside of Duct	<18	N/A	N/A	<178	<850	N/A
38	North Topside of Duct	<18	N/A	N/A	<178	<850	N/A
39	North Topside of Duct	<18	N/A	N/A	<178	<850	N/A
40	North Topside of Duct	<18	N/A	N/A	<178	<850	N/A
41	Center Topside of Duct	120	300	N/A	25k	40k	N/A
42	Center Topside of Duct	120	300	N/A	25k	40k	N/A
43	Center Topside of Duct	<18	<42	N/A	<178	<850	N/A
44	Center Topside of Duct	<18	<42	N/A	<178	<850	N/A
45	Center Topside of Duct	<18	<42	N/A	<178	<850	N/A
46	South Topside of Duct	<18	<42	N/A	<178	<850	N/A
47	South Topside of Duct	<18	<42	N/A	<178	<850	N/A
48	South Topside of Duct	<18	<42	N/A	<178	<850	N/A
49	Resurvey of topside of center duct	<18	<42	N/A	<178	<850	N/A
50	Resurvey of topside of center duct	<18	<42	N/A	<178	<850	N/A
51	South Center Ceiling	<18	<42	N/A	<178	<850	N/A
52	South Center Ceiling	<18	<42	N/A	<178	<850	N/A
53	Center Ceiling	<18	<42	N/A	<178	<850	N/A
54	Southwest Overhead	<18	<42	N/A	<178	<850	N/A
55	N/A	N/A	N/A	N/A	N/A	N/A	N/A
56	N/A	N/A	N/A	N/A	N/A	N/A	N/A
57	N/A	N/A	N/A	N/A	N/A	N/A	N/A
58	N/A	N/A	N/A	N/A	N/A	N/A	N/A
59	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	N/A	N/A	N/A	N/A
61	N/A	N/A	N/A	N/A	N/A	N/A	N/A
62	N/A	N/A	N/A	N/A	N/A	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A
64	N/A	N/A	N/A	N/A	N/A	N/A	N/A
65	N/A	N/A	N/A	N/A	N/A	N/A	N/A
66	N/A	N/A	N/A	N/A	N/A	N/A	N/A
67	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Bldg. 883 A-Side/G3

Post Pressure Wash Overhead Characterization Map

(Room 105 Overhead Plan View Looking Down)



Swipe and direct surveys taken at approximate sampling locations shown. See attached Contamination Data Summary sheets for activity levels seen and description of various components surveyed.

Biased and representative readings were taken of areas and components expected to have the highest contamination potential

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	961	Serial #	2403
Cal Due	3/14/05	Cal Due	4/14/05	Cal Due	4/11/05
Bkg	0.2 cpmα	Bkg	0.1 cpmα	Bkg	6.0 cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	21.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	65 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	928	Serial #	2403
Cal Due	3/14/05	Cal Due	10/22/05	Cal Due	4/11/05
Bkg	79.5 cpmβ	Bkg	44.4 cpmβ	Bkg	471.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	177 dpmβ	MDA	258 dpmβ	MDA	471 dpmβ

Survey Tracking # 883-04-S1177A
Survey Type: Contamination
Building: 883 - Room 105
Location: HPM - Equipment and Pit
Purpose: Characterization (Pre-Fixative)

RWP #: N/A
Date: 1/8/05 Time: 15:30

[redacted]

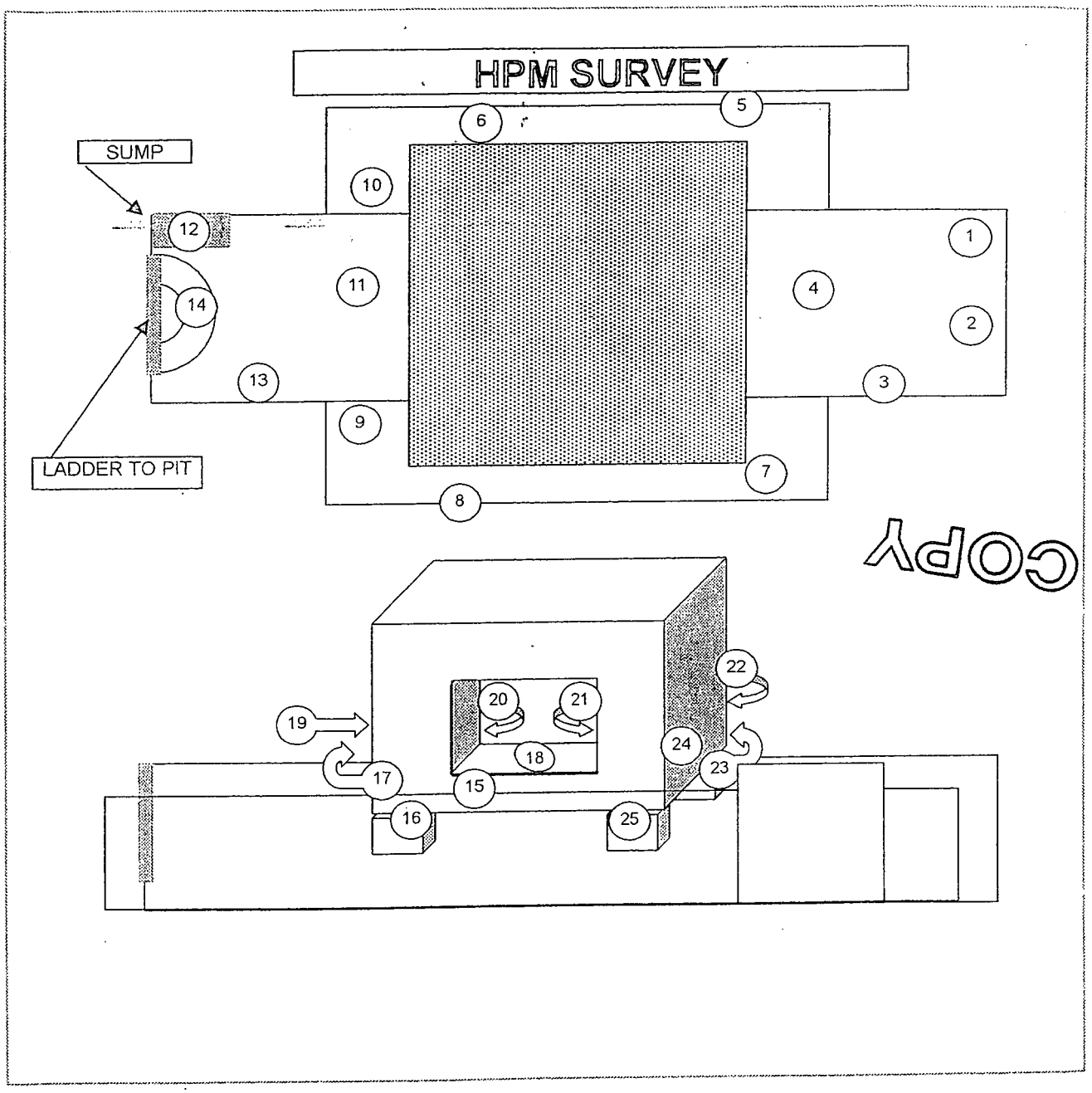
RCT: N/A / N/A / N/A
Print name Signature Emp. #

PRN/REN #: N/A
Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Pit Floor - See map for location.	241	NA	N/A	4,737	54,000	N/A
2	Pit Floor - See map for location.	234	NA	N/A	1,541	NA	N/A
3	Vertical wall- See map for location.	109	NA	N/A	1,783	25,000	N/A
4	Pit Floor - See map for location.	186	NA	N/A	4,438	40,000	N/A
5	Vertical wall- See map for location.	105	NA	N/A	2,335	20,000	N/A
6	Vertical wall- See map for location.	233	NA	N/A	3,658	30,000	N/A
7	Pit Floor - See map for location.	219	NA	N/A	2,638	NA	N/A
8	Vertical wall- See map for location.	167	NA	N/A	2,830	20,000	N/A
9	Pit Floor - See map for location.	93	NA	N/A	1,569	NA	N/A
10	Pit Floor - See map for location.	106	NA	N/A	1,459	NA	N/A
11	Pit Floor - See map for location.	203	NA	N/A	2,007	26,000	N/A
12	Inside Pit Sump	147	NA	N/A	3,982	360,000	N/A
13	Pit Floor - See map for location.	119	NA	N/A	1,111	45,000	N/A
14	Ladder to Pit	75	NA	N/A	1,242	NA	N/A
15	Machine Block - South Side - Floor level	135	NA	N/A	748	20,000	N/A
16	Machine Block - South Side - support plate	145	NA	N/A	1,034	NA	N/A
17	Machine Block - West Side - Floor level	285	NA	N/A	1,532	NA	N/A
18	Machine Block - Center Area	106	NA	N/A	514	45,000	N/A
19	Machine Block - Northwest corner	142	NA	N/A	973	NA	N/A
20	Machine Block - North Side	161	NA	N/A	1,780	NA	N/A
21	Machine Block - North Side	274	NA	N/A	3,904	30,000	N/A
22	Machine Block - Northeast Corner	99	NA	N/A	904	NA	N/A
23	Machine Block - East Side near Corner	115	NA	N/A	683	NA	N/A
24	Machine Block - East Side	135	NA	N/A	477	24,000	N/A
25	Machine Block -Southeast support plate	125	NA	N/A	984	NA	N/A

Date Reviewed: 1/10/05 **RS Supervision:** [redacted]



Survey Tracking # 883-04-,S1177

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1431
Cal Due	2/16/05	Cal Due	N/A	Cal Due	12/30/04
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	22.10 %
MDA	18 dpmα	MDA	20 dpmα	MDA	64 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1431
Cal Due	2/16/05	Cal Due	N/A	Cal Due	12/30/04
Bkg	70.4 cpmβ	Bkg	N/A cpmβ	Bkg	681.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	167 dpmβ	MDA	200 dpmβ	MDA	564 dpmβ

Survey Tracking # 883-04-S1203
Survey Type: Contamination
Building: 883
Location: A Side USI PIT
Purpose: Post Decon (Pre-Fixative)

RWP #: 04-880-0002

Date: 12/27/04 Time: 1000

[redacted]

RCT: NA / NA / NA
Print name / Signature / Emp. #

PRN/REN # : N/A
Comments: Nuclide of concern is from Depleted Uranium only. Beta dpm CF Applied. Survey performed as post decon survey of USI pit area.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Wall	158	14 K	N/A	6456	105 K	N/A
2	Wall	121	N/A	N/A	3028	N/A	N/A
3	Wall	46	770	N/A	5256	14 K	N/A
4	Wall	23	N/A	N/A	2692	N/A	N/A
5	Wall	49	1.6 K	N/A	4352	155 K	N/A
6	Wall	32	1.6 K	N/A	2660	100 K	N/A
7	Wall	104	N/A	N/A	4516	N/A	N/A
8	Wall	41	1.4 K	N/A	6820	200 K	N/A
9	Wall	144	N/A	N/A	6513	N/A	N/A
10	Wall	126	N/A	N/A	5740	N/A	N/A
11	Wall	144	2.1 K	N/A	3712	73 K	N/A
12	Wall	184	N/A	N/A	6584	N/A	N/A
13	Wall	190	6.3 K	N/A	8040	46 K	N/A
14	Wall	38	10 K	N/A	2784	214 K	N/A
15	Wall	204	N/A	N/A	4856	N/A	N/A
16	Wall	469	6.8 K	N/A	8544	841 K	N/A
17	Wall	506	N/A	N/A	10688	N/A	N/A
18	Wall	190	N/A	N/A	7604	N/A	N/A
19	Wall	72	N/A	N/A	7304	N/A	N/A
20	Wall	155	10 K	N/A	7352	341 K	N/A

Date Reviewed: 1/6/05 **RS Sup** [redacted]

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COPY

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
21	Wall	78	2.3 K	N/A	3252	46 K	N/A
22	Wall	204	N/A	N/A	2444	N/A	N/A
23	Wall	213	9.2 K	N/A	4560	87 K	N/A
24	Wall	118	N/A	N/A	4316	N/A	N/A
25	Wall	46	4.5 K	N/A	3488	100 K	N/A
26	Wall	268	N/A	N/A	4836	N/A	N/A
27	Wall	75	9.5 K	N/A	3760	96 K	N/A
28	Wall	95	N/A	N/A	1576	N/A	N/A
29	Wall	135	N/A	N/A	3604	N/A	N/A
30	Wall	75	6.4 K	N/A	2656	69 K	N/A
31	Wall	78	14 K	N/A	1100	141 K	N/A
32	Wall	64	5.4 K	N/A	4192	46 K	N/A
33	Wall	262	10 K	N/A	3648	187 K	N/A
34	Wall	167	N/A	N/A	4488	N/A	N/A
35	Wall	172	6.4 K	N/A	7100	237 K	N/A
36	Wall	32	14 K	N/A	3432	473 K	N/A
37	Floor	360	5 K	N/A	7212	236 K	N/A
38	Floor	101	N/A	N/A	5836	N/A	N/A
39	Floor	147	N/A	N/A	6384	N/A	N/A
40	Floor	158	N/A	N/A	3056	N/A	N/A
41	Floor	245	10 K	N/A	4632	246 K	N/A
42	Floor	150	N/A	N/A	4536	N/A	N/A
43	Floor	84	N/A	N/A	6768	N/A	N/A
44	Floor	87	905	N/A	3700	119 K	N/A
45	Floor	233	724	N/A	6920	123 K	N/A
46	Floor	104	N/A	N/A	3824	N/A	N/A
47	Floor	138	724	N/A	9620	369 K	N/A
48	Floor	124	N/A	N/A	3132	N/A	N/A
49	Pit	161	10 K	N/A	6384	864 K	N/A
50	Top of Pedestal	319	18 K	N/A	20580	1.8 mil	N/A
51	Top of Pedestal	107	5.5 K	N/A	3224	81 K	N/A
52	Top of Pedestal	365	9 K	N/A	25568	2 mil	N/A
53	Top of Pedestal	529	9049	N/A	10320	6.2 mil	N/A
54	Top of Pedestal	446	9 K	N/A	12444	1.5 mil	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

COPY

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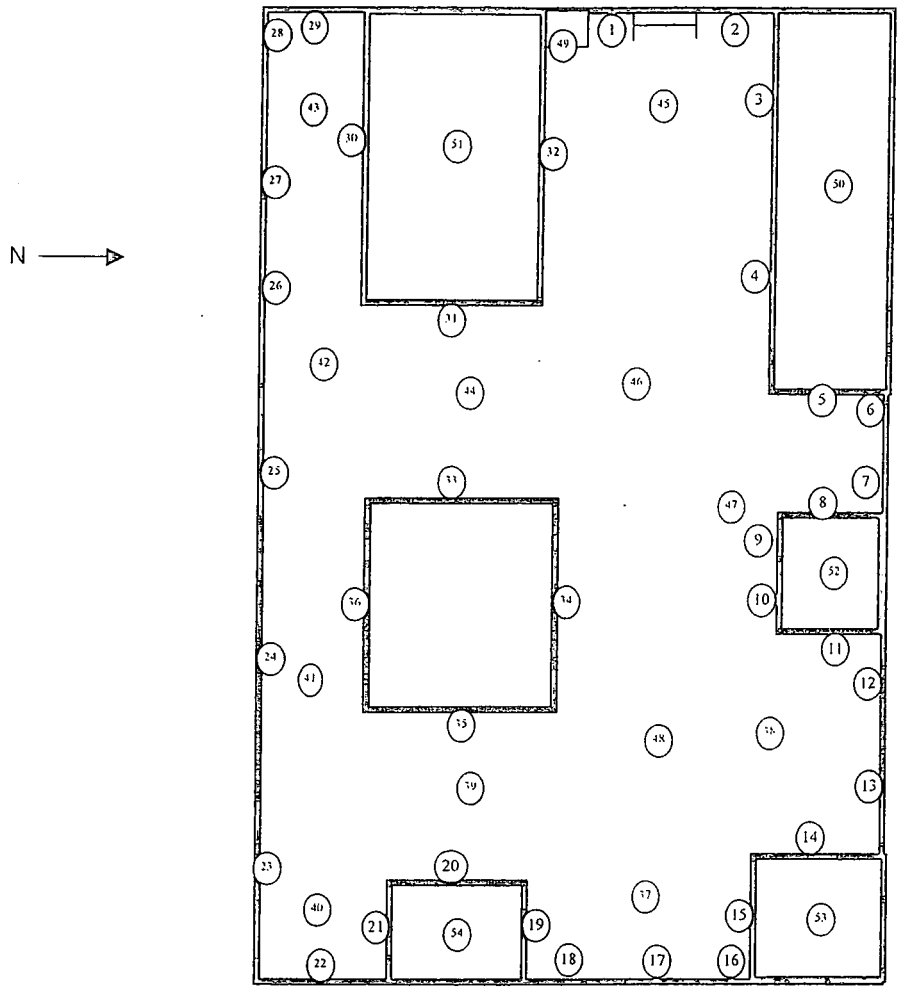
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



A SIDE 883 USI PRESS PIT

COPY

43

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	961	Serial #	2403
Cal Due	3/14/05	Cal Due	4/14/05	Cal Due	4/11/05
Bkg	0.2 cpmα	Bkg	0.1 cpmα	Bkg	6.0 cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	21.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	65 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE E[redacted]
Model	2929	Model	BC-4	Model	D[redacted]
Serial #	176102	Serial #	928	Serial #	[redacted]
Cal Due	3/14/05	Cal Due	10/22/05	Cal Due	4/[redacted]
Bkg	79.5 cpmβ	Bkg	44.4 cpmβ	Bkg	471.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	177 dpmβ	MDA	258 dpmβ	MDA	471 dpmβ

Survey Tracking #	883-04-S1177
Survey Type:	Contamination
Building:	883 - Room 105
Location:	Lowey Mill Equipment and Pit
Purpose:	Characterization (Pre-Fixative)
RWP #:	N/A
Date:	1/8/05 Time: 15:30
RCT:	N/A / N/A / N/A
	Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Pit Floor - See map for location.	1442	NA	N/A	22,336	30,000	N/A
2	"Table top" shelf in pit- See map for location.	552	NA	N/A	5,076	40,000	N/A
3	Vertical wall- See map for location.	328	NA	N/A	5,527	15,000	N/A
4	Pit Floor - See map for location.	374	NA	N/A	5260	NA	N/A
5	Pit Floor - See map for location.	288	NA	N/A	5474	70,000	N/A
6	Equipment north side	562	NA	N/A	14,495	NA	N/A
7	Vertical wall- See map for location.	242	NA	N/A	5,444	35,000	N/A
8	Equipment east side.	166	NA	N/A	2,556	NA	N/A
9	Pit Floor - See map for location.	248	NA	N/A	2,580	NA	N/A
10	Pit Floor - See map for location.	195	NA	N/A	3,304	30,000	N/A
11	Pit Floor - See map for location.	257	NA	N/A	5,080	NA	N/A
12	Equipment south side	421	NA	N/A	5,522	NA	N/A
13	Equipment south side	92	NA	N/A	32,994	500,000	N/A
14	Pit Floor - See map for location.	406	NA	N/A	8,010	NA	N/A
15	"Table top" shelf in pit- See map for location.	2508	NA	N/A	24,648	NA	N/A
16	Pit Floor - See map for location.	368	NA	N/A	7,514	NA	N/A
17	Pit Floor - See map for location.	602	NA	N/A	10,063	35,000	N/A
18	Vertical wall- See map for location.	213	NA	N/A	3984	NA	N/A
19	Vertical wall- See map for location.	341	NA	N/A	4893	NA	N/A
20	Pit Floor - See map for location.	406	NA	N/A	14436	40,000	N/A
21	Pit Floor - See map for location.	1527	NA	N/A	26442	NA	N/A
22	Equipment west side	296	NA	N/A	6055	NA	N/A
23	Pit Floor - See map for location.	148	NA	N/A	2043	30,000	N/A
24	Equipment northwest corner	179	NA	N/A	3596	NA	N/A
25	Equipment - center area - pit floor level	[redacted]					

Date Reviewed: 1/14/05 **RS Supervision:** [redacted]

LOEWY MILL SURVEY

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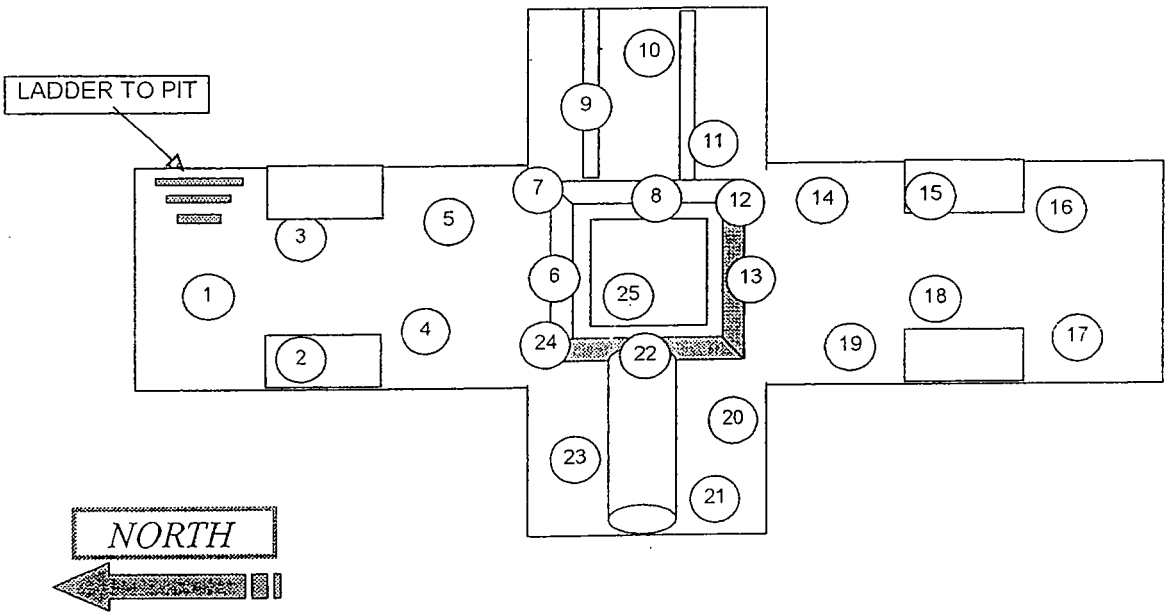


POST-FIXATIVE LLW SURVEYS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	35.10 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	66 dpmα
Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	74.7 cpmβ	Bkg	N/A cpmβ	Bkg	506.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	205 dpmβ	MDA	dpmβ	MDA	488 dpmβ

Survey Tracking # 883-04-S1316

Survey Type: Contamination

Building: 883

Location: North Half of Rm#105 Floors(109&Bathrooms)

Purpose: Post fixative

RWP #: 05-880-0001

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Edge of opening in floor Rm#109	<18	2200	N/A	<205	1955K	N/A
2	Floor Rm # 109	<18	<66	N/A	<205	15K	N/A
3	Floor Rm # 109	<18	100	N/A	<205	30K	N/A
4	Floor Rm # 109	<18	105	N/A	<205	30K	N/A
5	Floor Rm # 109	<18	650	N/A	<205	240K	N/A
6	Floor Rm # 109	<18	1085	N/A	<205	1080K	N/A
7	Floor Rm # 109 (PIT)	<18	1200	N/A	<205	1655K	N/A
8	Floor Rm # 109	<18	70	N/A	<205	55K	N/A
9	Floor Rm # 109	<18	735	N/A	<205	75K	N/A
10	Floor Rm # 109	<18	115	N/A	<205	145K	N/A
11	Floor Rm # 109	<18	110	N/A	<205	20K	N/A
12	Floor Rm # 109	<18	70	N/A	<205	15K	N/A
13	Floor Rm # 109	<18	75	N/A	<205	10K	N/A
14	Floor Rm # 109	<18	695	N/A	<205	540K	N/A
15	Floor Rm # 109	<18	90	N/A	<205	25K	N/A
16	Floor Rm # 109	<18	95	N/A	<205	25K	N/A
17	Floor Rm # 109	<18	<66	N/A	<205	25K	N/A
18	Floor Rm # 109	<18	<66	N/A	<205	25K	N/A
19	Floor Rm # 109	<18	80	N/A	<205	30K	N/A
20	Floor Rm # 109	<18	320	N/A	<205	195K	N/A

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Floor Rm #105	<18	1105	N/A	<205	615K	N/A
22	Floor Rm #105	<18	<66	N/A	<205	20K	N/A
23	Floor Rm #105	<18	205	N/A	<205	185K	N/A
24	Floor Rm #105	<18	2290	N/A	<205	690K	N/A
25	Floor Rm #105	<18	255	N/A	<205	185K	N/A
26	Floor Rm #105	<18	105	N/A	<205	75K	N/A
27	Floor Rm #105	<18	140	N/A	<205	210K	N/A
28	Floor Rm #105	<18	<66	N/A	<205	15K	N/A
29	Floor Rm #105	<18	255	N/A	<205	490K	N/A
30	Floor Rm #105	<18	185	N/A	<205	150K	N/A
31	Floor Rm #105	<18	<66	N/A	<205	85K	N/A
32	Floor Rm #105	<18	<66	N/A	<205	105K	N/A
33	Floor Rm #105	<18	810	N/A	<205	55K	N/A
34	Floor Rm #105	<18	<66	N/A	<205	30K	N/A
35	Floor Rm #105	<18	295	N/A	<205	240K	N/A
36	Floor Rm #105	<18	<66	N/A	<205	345K	N/A
37	Floor Rm #105	<18	<66	N/A	<205	45K	N/A
38	Floor Rm #105	<18	285	N/A	<205	225K	N/A
39	Floor Rm #105	<18	<66	N/A	<205	35K	N/A
40	Floor Rm #105	<18	90	N/A	<205	80K	N/A
41	Floor Rm #105	<18	7500	N/A	<205	5855K	N/A
42	Floor Rm #105	<18	700	N/A	<205	1170K	N/A
43	Floor Rm #105	<18	510	N/A	<205	430K	N/A
44	Floor Rm #105	<18	410	N/A	<205	2355K	N/A
45	Floor Rm #105	<18	215	N/A	<205	235K	N/A
46	Closet Floor	<18	<66	N/A	<205	35K	N/A
47	Bathroom Floor	<18	<66	N/A	<205	105K	N/A
48	Floor Rm #105	<18	1165	N/A	<205	605K	N/A
49	Floor Rm #105	<18	1690	N/A	<205	755K	N/A
50	Floor Rm #105	<18	1540	N/A	<205	920	N/A
51	Floor Rm #105	<18	1025	N/A	<205	440K	N/A
52	Floor Rm #105	<18	160	N/A	<205	350K	N/A
53	Floor Rm #105	<18	<66	N/A	<205	15K	N/A
54	Floor Rm #105	<18	825	N/A	<205	540K	N/A
55	Floor Rm #105	<18	<66	N/A	<205	305K	N/A
55	Floor Rm #105	<18	<66	N/A	<205	305K	N/A
56	Floor Rm #105	<18	555	N/A	<205	775K	N/A
57	Floor Rm #105	<18	<66	N/A	<205	30K	N/A
58	Floor Rm #105	<18	115	N/A	<205	50K	N/A
59	Floor Rm #105	<18	1255	N/A	<205	470K	N/A
60	Floor Rm #105	<18	1200	N/A	<205	920K	N/A
61	Floor Rm #105	<18	<66	N/A	<205	190K	N/A
62	Floor Rm #105	<18	215	N/A	<205	335K	N/A
63	Floor Rm #105	<18	330	N/A	<205	355K	N/A
64	Floor Rm #105	<18	905	N/A	<205	2300K	N/A
65	Floor Rm #105	<18	390	N/A	<205	940K	N/A
66	Floor Rm #105	<18	1070	N/A	<205	540K	N/A

883-04-51316

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

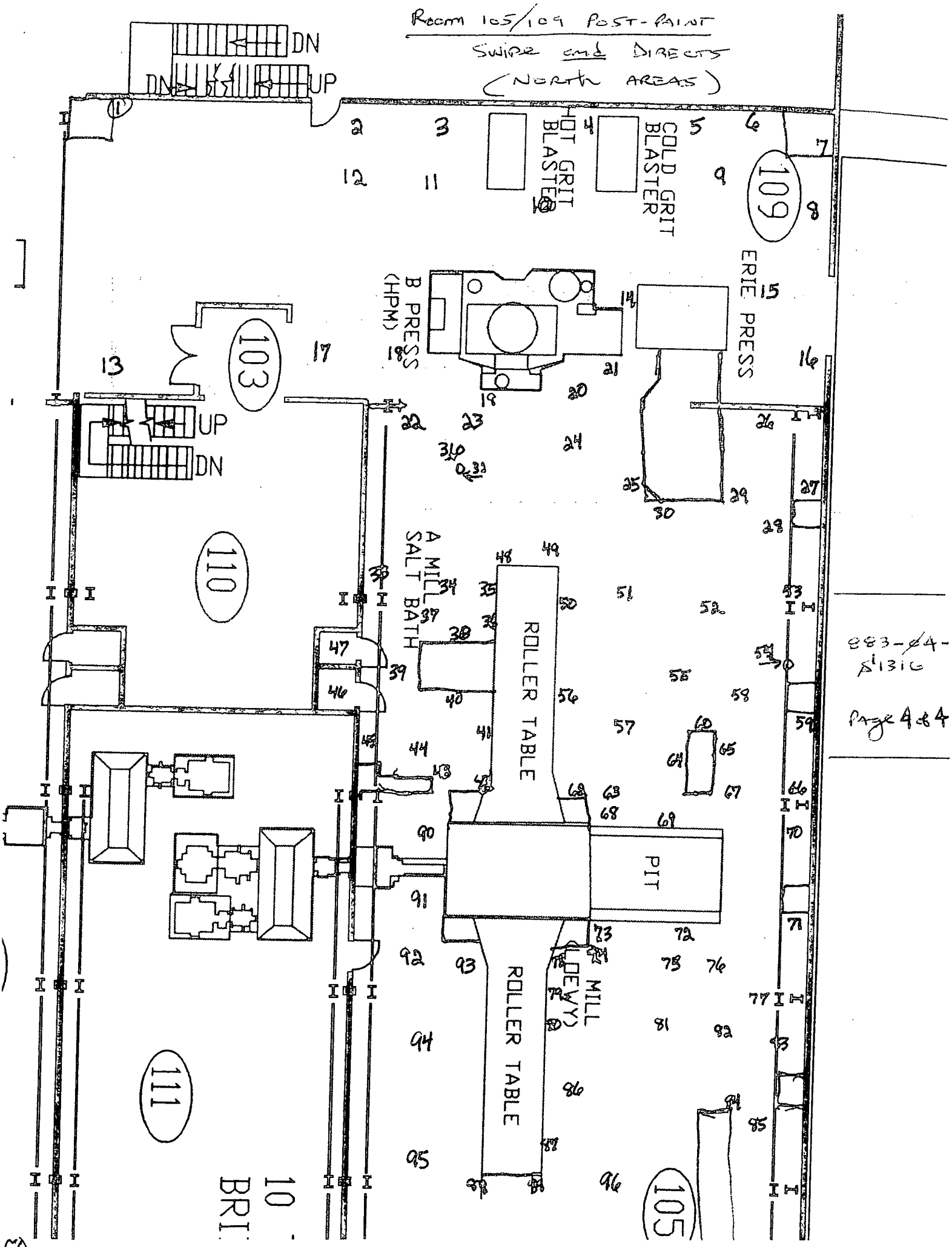
SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
67	Floor Rm #105	<18	445	N/A	<205	415K	N/A
68	Floor Rm #105	<18	110	N/A	<205	275K	N/A
69	Floor Rm #105	<18	285	N/A	<205	285K	N/A
70	Floor Rm #105	<18	190	N/A	<205	70K	N/A
71	Floor Rm #105	<18	95	N/A	<205	130K	N/A
72	Floor Rm #105	<18	75	N/A	<205	310K	N/A
73	Floor Rm #105	<18	<66	N/A	<205	130K	N/A
74	Floor Rm #105	<18	270	N/A	<205	560K	N/A
75	Floor Rm #105	<18	1455	N/A	<205	1625K	N/A
76	Floor Rm #105	<18	2745	N/A	<205	315K	N/A
77	Floor Rm #105	<18	160	N/A	<205	180K	N/A
78	Floor Rm #105	<18	1030	N/A	<205	1055K	N/A
79	Floor Rm #105	<18	3505	N/A	<205	1845K	N/A
80	Floor Rm #105	<18	720	N/A	<205	695K	N/A
81	Floor Rm #105	<18	80	N/A	<205	450K	N/A
82	Floor Rm #105	<18	90	N/A	<205	30K	N/A
83	Floor Rm #105	<18	<66	N/A	<205	30K	N/A
84	Floor Rm #105	<18	610	N/A	<205	1520K	N/A
85	Floor Rm #105	<18	<66	N/A	<205	50K	N/A
86	Floor Rm #105	<18	410	N/A	<205	95K	N/A
87	Floor Rm #105	<18	1500	N/A	<205	925K	N/A
88	Floor Rm #105	<18	715	N/A	<205	1075K	N/A
89	Floor Rm #105	<18	2010	N/A	<205	1325K	N/A
90	Floor Rm #105	<18	120	N/A	<205	75K	N/A
91	Floor Rm #105	<18	75	N/A	<205	25K	N/A
92	Floor Rm #105	<18	<66	N/A	<205	35K	N/A
93	Floor Rm #105	<18	850	N/A	<205	500K	N/A
94	Floor Rm #105	<18	75	N/A	<205	130K	N/A
95	Floor Rm #105	<18	400	N/A	<205	450K	N/A
96	Floor Rm #105	<18	230	N/A	<205	140K	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-S1316

49

Room 105/109 POST-PAINT
SWIPE and DIRECTS
(NORTH AREAS)



883-04-
A1316

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	35.10 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	66 dpmα
Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	74.7 cpmβ	Bkg	N/A cpmβ	Bkg	506.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	205 dpmβ	MDA	dpmβ	MDA	488 dpmβ

Survey Tracking # 883-04-S1318
Survey Type: Contamination
Building: 883
Location: South Half of Rm#105 Floors
Purpose: Post fixative

RWP #: 05-880-0001

Date: 1/21/05 Time: 16:00

RC [redacted]

RCT: N/A / N/A / N/A
Print name Signature Emp. #

PRN/REN # : N/A
Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above.

Refer to Survey Tracking # 883-05-S1331 for follow up survey of Lowey Pedistol.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Lowey table pedistol *	<18	355	N/A	1680	450K	N/A
2	Floor Rm # 105	<18	<66	N/A	<205	55K	N/A
3	Floor Rm # 105	<18	330	N/A	<205	760K	N/A
4	Floor Rm # 105	<18	300	N/A	<205	165K	N/A
5	Floor Rm # 105	<18	85	N/A	<205	75K	N/A
6	Floor Rm # 105	<18	<66	N/A	<205	45K	N/A
7	Floor Rm # 105	<18	70	N/A	<205	180K	N/A
8	Floor Rm # 105	<18	<66	N/A	<205	30K	N/A
9	Floor Rm # 105	<18	<66	N/A	<205	30K	N/A
10	Floor Rm # 105	<18	100	N/A	<205	45K	N/A
11	Floor Rm # 105	<18	90	N/A	<205	605K	N/A
12	Floor Rm # 105	<18	195	N/A	<205	85K	N/A
13	Cincinnati Shear pedistol	<18	510	N/A	<205	405K	N/A
14	Cincinnati Shear pedistol	<18	80	N/A	<205	55K	N/A
15	Floor Rm # 105	<18	<66	N/A	<205	35K	N/A
16	Floor Rm # 105	<18	100	N/A	<205	40K	N/A
17	Floor Rm # 105	<18	245	N/A	<205	40K	N/A
18	Cincinnati Shear pedistol	<18	150	N/A	<205	310K	N/A
19	Floor Rm # 105	<18	170	N/A	<205	1100K	N/A
20	Floor Rm # 105	<18	<66	N/A	<205	20K	N/A

Date Reviewed: 1/22/05 **RS Supervis** [redacted]

51

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Floor Rm #105	<18	70	N/A	<205	105K	N/A
22	Floor Rm #105	<18	95	N/A	<205	80K	N/A
23	Floor Rm #105	<18	<66	N/A	<205	85K	N/A
24	Floor Rm #105	<18	<66	N/A	<205	40K	N/A
25	Floor Rm #105	<18	85	N/A	<205	30K	N/A
26	Floor Rm #105	<18	100	N/A	<205	325K	N/A
27	Floor Rm #105	<18	<66	N/A	<205	90K	N/A
28	Floor Rm #105	<18	<66	N/A	<205	505K	N/A
29	Floor Rm #105	<18	450	N/A	<205	25K	N/A
30	Table pedistol	<18	<66	N/A	<205	120K	N/A
31	Floor Rm #105	<18	110	N/A	<205	315K	N/A
32	Floor Rm #105	<18	225	N/A	<205	90K	N/A
33	Floor Rm #105	<18	225	N/A	<205	95K	N/A
34	Floor Rm #105	<18	<66	N/A	<205	75K	N/A
35	Floor Rm #105	<18	<66	N/A	<205	130K	N/A
36	Turret Lathe pedistol	<18	120	N/A	<205	155K	N/A
37	Floor Rm #105	<18	<66	N/A	<205	140K	N/A
38	Floor Rm #105	<18	<66	N/A	<205	185K	N/A
39	Floor Rm #105	<18	180	N/A	<205	20K	N/A
40	Floor Rm #105	<18	<66	N/A	<205	20K	N/A
41	Floor Rm #105	<18	70	N/A	<205	260K	N/A
42	Floor Rm #105	<18	185	N/A	<205	20K	N/A
43	Floor Rm #105	<18	95	N/A	<205	75K	N/A
44	Floor Rm #105	<18	75	N/A	<205	210K	N/A
45	Floor Rm #105	<18	75	N/A	<205	50K	N/A
46	Floor Rm #105	<18	80	N/A	<205	15K	N/A
47	Floor Rm #105	<18	110	N/A	<205	130K	N/A
48	Floor Rm #105	<18	95	N/A	<205	115K	N/A
49	Floor Rm #105	<18	95	N/A	<205	115K	N/A
50	Floor Rm #105	<18	150	N/A	<205	25K	N/A
51	Floor Rm #105	<18	<66	N/A	<205	35K	N/A
52	Floor Rm #105	<18	<66	N/A	<205	40K	N/A
53	Floor Rm #105	<18	<66	N/A	<205	90K	N/A
54	Floor Rm #105	<18	70	N/A	<205	25K	N/A
55	Floor Rm #105	<18	<66	N/A	<205	40K	N/A
55	Floor Rm #105	<18	<66	N/A	<205	40K	N/A
56	Floor Rm #105	<18	185	N/A	<205	240K	N/A
57	Floor Rm #105	<18	<66	N/A	<205	20K	N/A
58	Floor Rm #105	<18	<66	N/A	<205	15K	N/A
59	Floor Rm #105	<18	75	N/A	<205	25K	N/A
60	Floor Rm #105	<18	<66	N/A	<205	25K	N/A
61	Floor Rm #105	<18	<66	N/A	<205	15K	N/A
62	Floor Rm #105	<18	<66	N/A	<205	15K	N/A
63	Floor Rm #105	<18	<66	N/A	<205	20K	N/A
64	Floor Rm #105	<18	<66	N/A	<205	15K	N/A
65	Floor Rm #105	<18	<66	N/A	<205	30K	N/A
66	Floor Rm #105	<18	130	N/A	<205	70K	N/A

883-04-51318

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
67	Floor Rm #105	<18	<66	N/A	<205	45K	N/A
68	Floor Rm #105	<18	155	N/A	<205	140K	N/A
69	Floor Rm #105	<18	<66	N/A	<205	30K	N/A
70	Floor Rm #105	<18	<66	N/A	<205	180K	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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A1318
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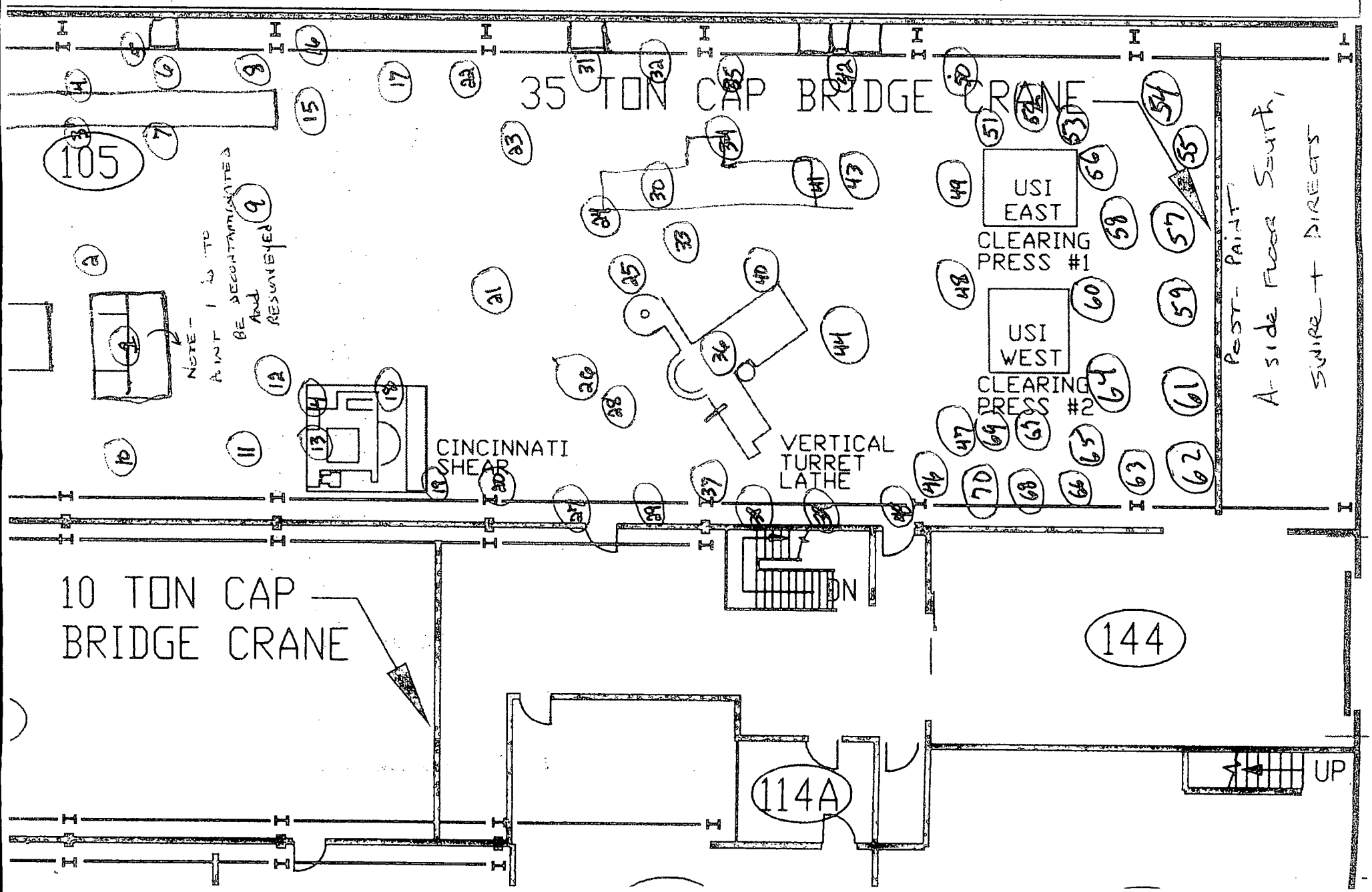

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	35.10 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	71 dpmα

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	68.9 cpmβ	Bkg	N/A cpmβ	Bkg	510.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	205 dpmβ	MDA	dpmβ	MDA	490 dpmβ

Survey Tracking # 883-04-S1306

Survey Type: Contamination

Building: 883

Location: Rm# 103 Floor & Walls

Purpose: Post fixative

RWP #: 05-880-0001

Date: 1/19/05 Time: 16:00

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Rm # 103 Floor	<18	<71	N/A	<205	<490	N/A
2	Rm # 103 Floor	<18	<71	N/A	<205	<490	N/A
3	Rm # 103 Floor	<18	<71	N/A	<205	<490	N/A
4	Rm # 103 Floor	<18	<71	N/A	<205	<490	N/A
5	Rm # 103 Floor	<18	<71	N/A	<205	<490	N/A
6	Rm # 103 Floor	<18	<71	N/A	<205	<490	N/A
7	Rm # 103 Floor	<18	<71	N/A	<205	<490	N/A
8	Rm # 103 Floor	<18	<71	N/A	<205	<490	N/A
9	Rm # 103 Floor	<18	<71	N/A	<205	<490	N/A
10	Rm # 103 East Wall	<18	<71	N/A	<205	<490	N/A
11	Rm # 103 East Wall	<18	<71	N/A	<205	<490	N/A
12	Rm # 103 East Wall	<18	<71	N/A	<205	<490	N/A
13	Rm # 103 East Wall	<18	<71	N/A	<205	<490	N/A
14	Rm # 103 South Wall	<18	<71	N/A	<205	<490	N/A
15	Rm # 103 South Wall	<18	<71	N/A	<205	<490	N/A
16	Rm # 103 South Wall	<18	<71	N/A	<205	<490	N/A
17	Rm # 103 South Wall	<18	<71	N/A	<205	<490	N/A
18	Rm # 103 West Wall	<18	<71	N/A	<205	<490	N/A
19	Rm # 103 West Wall	<18	<71	N/A	<205	<490	N/A
20	Rm # 103 West Wall	<18	<71	N/A	<205	<490	N/A

Date Reviewed: 1/21/05 **RS Supervision:** [redacted]

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Rm # 103 West Wall	<18	<71	N/A	<205	<490	N/A
22	Rm # 103 North Wall	<18	<71	N/A	<205	<490	N/A
23	Rm # 103 North Wall	<18	<71	N/A	<205	<490	N/A
24	Rm # 103 North Wall	<18	<71	N/A	<205	<490	N/A
25	Rm # 103 North Wall	<18	<71	N/A	<205	<490	N/A
26	Rm # 103 North Wall	<18	<71	N/A	<205	<490	N/A
27	Rm # 103 North Wall	<18	<71	N/A	<205	<490	N/A
28	Rm # 103 North Wall	<18	<71	N/A	<205	<490	N/A
29	Rm # 103 North Wall	<18	<71	N/A	<205	<490	N/A
30	Rm # 103 North Wall	<18	<71	N/A	<205	<490	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-9A-31376

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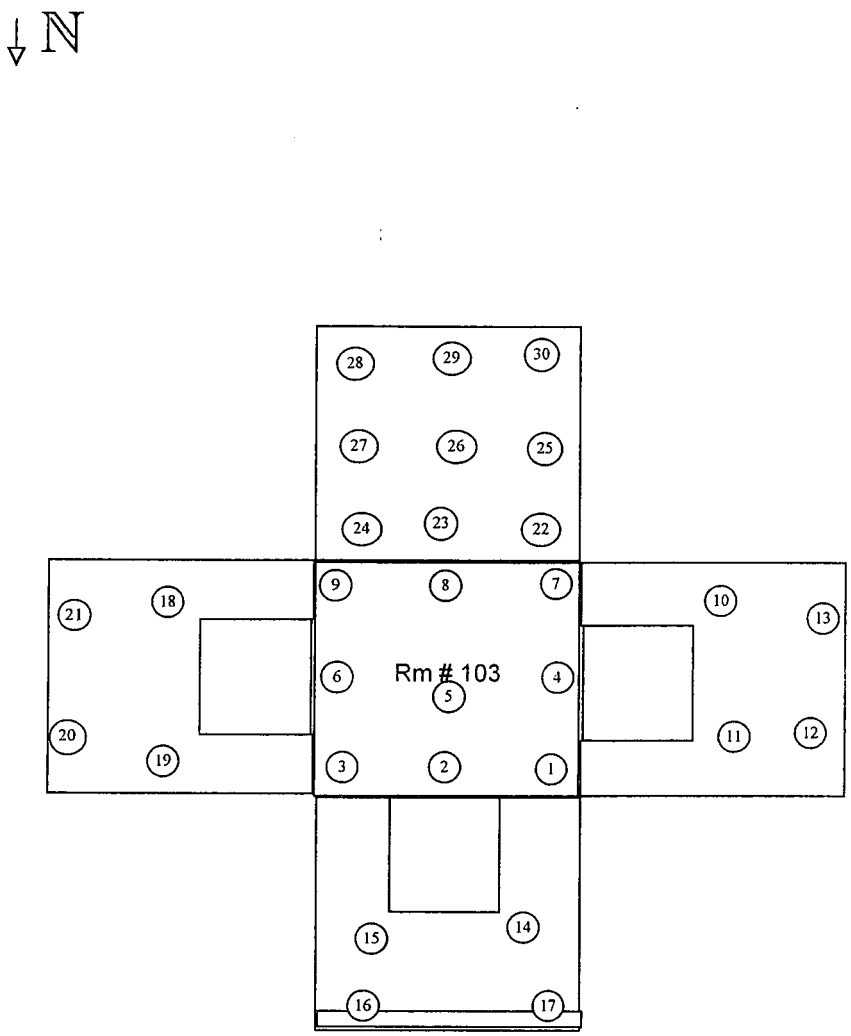
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



883-94-51326

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	12 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	
Bkg	71.4 cpmβ	Bkg	N/A cpmβ	Bkg	cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	12 dpmβ

Survey Tracking # 883-04-S1302

Survey Type: Contamination

Building: 883

Location: G-3 A side North Wall

Purpose: After Painting

RWP #: 05-880-0001

Date: 1/17/05 Time: 0900

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is depleted uranium. Survey performed on painted deconned walls in G-3 A Side.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
2	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
3	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
4	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
5	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
6	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
7	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
8	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
9	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
10	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
11	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
12	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
13	Painted North Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

SURVEY # 883-04-51302
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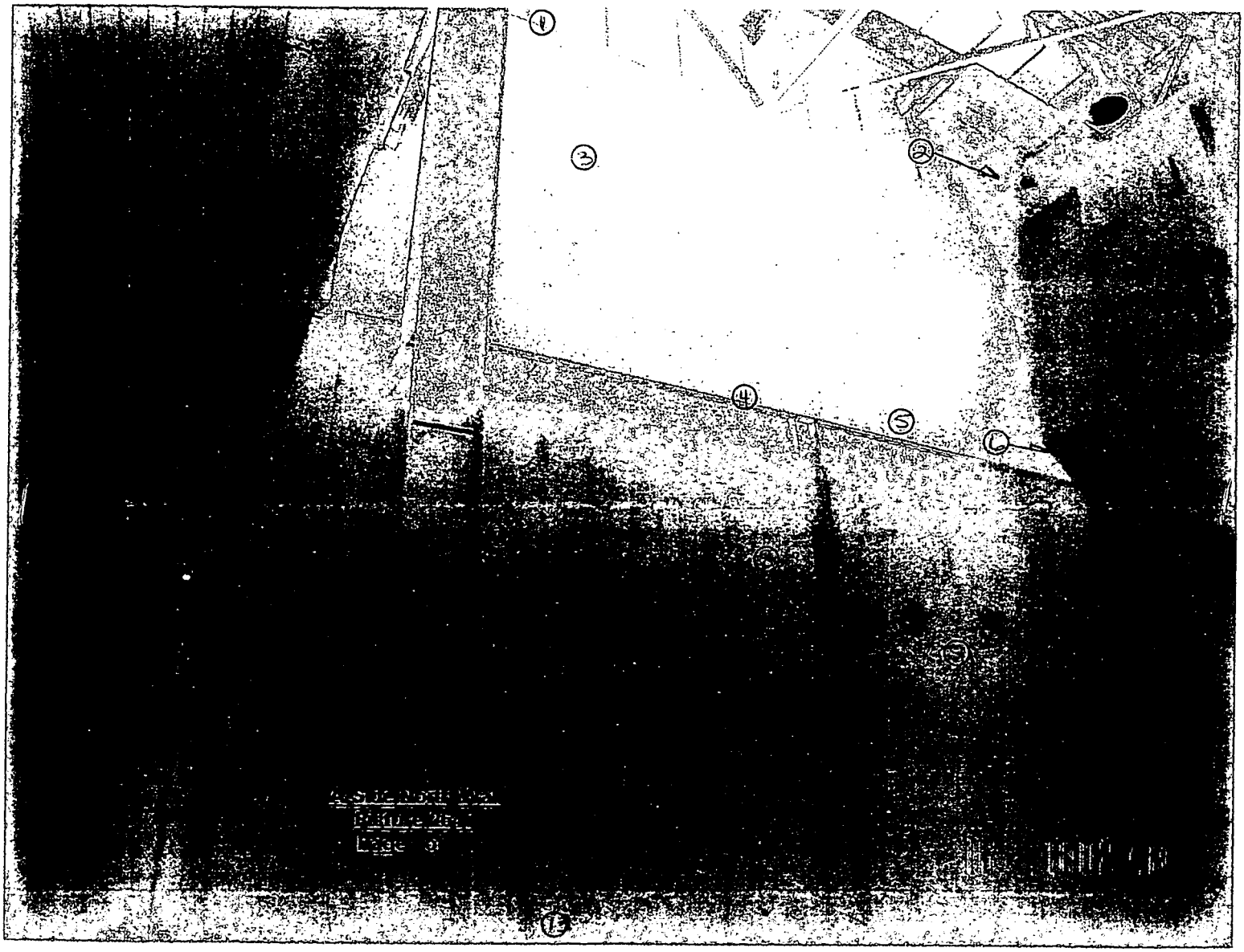


2 → Location is on First Panel from EAST WALL

4 → Location is close to EAST WALL

7 → LOCATION is behind Column

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	12 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	
Bkg	65.5 cpmβ	Bkg	N/A cpmβ	Bkg	cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	12 dpmβ

Survey Tracking # 883-04-S1303
Survey Type: Contamination
Building: 883
Location: G-3 A side South Wall
Purpose: After Painting

RWP #: 05-880-0001

Date: 1/18/05 Time: 1400

[redacted]

RCT: N/A / N/A / N/A
Print name Signature Emp. #

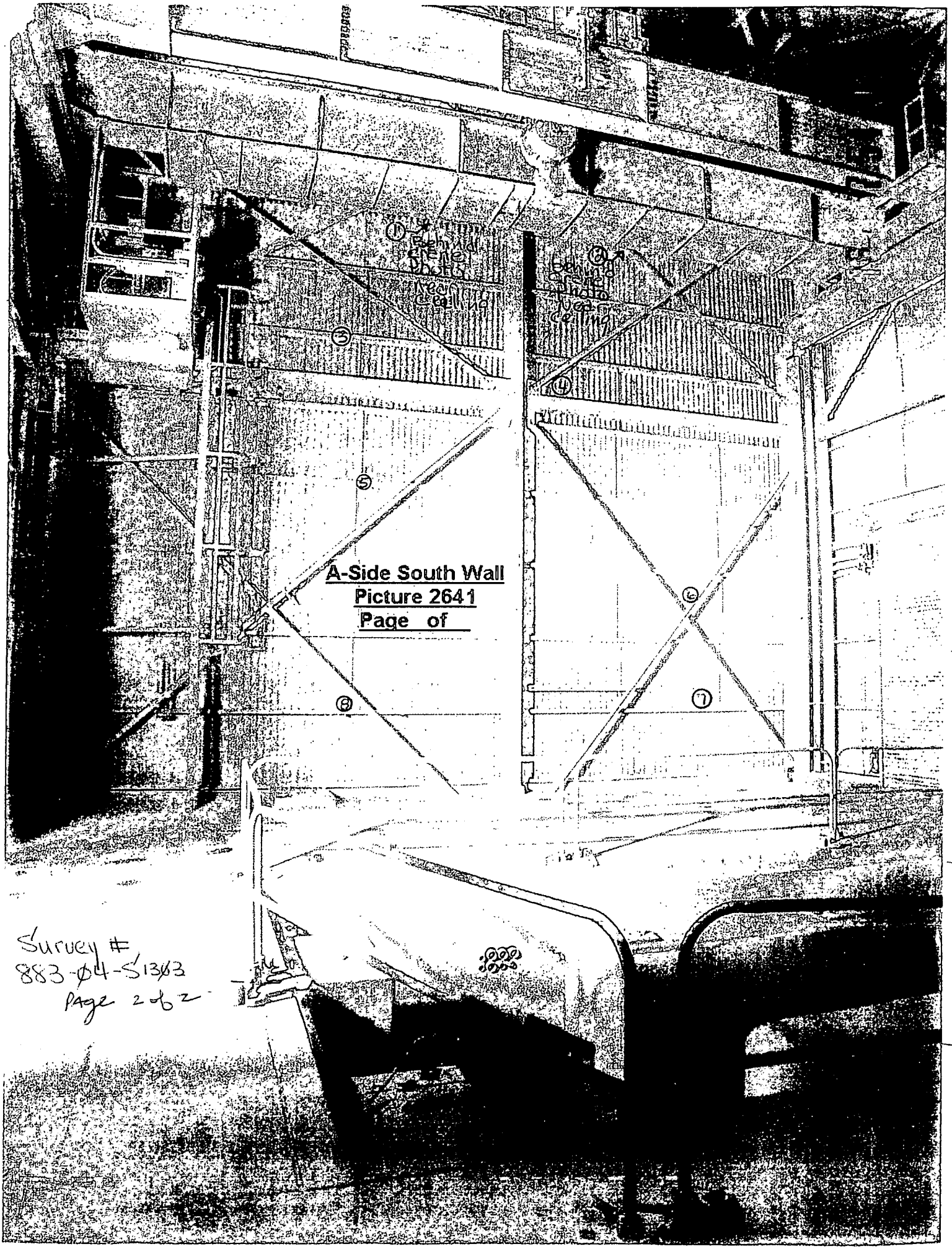
PRN/REN # : N/A
Comments: Nuclide of concern is depleted uranium. Survey performed on painted deconned walls in G-3 A Side.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Painted South Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
2	Painted South Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
3	Painted South Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
4	Painted South Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
5	Painted South Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
6	Painted South Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
7	Painted South Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
8	Painted South Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

60


A-Side South Wall
Picture 2641
Page of
Survey #
883-04-S1363
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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due		Cal Due	
Bkg	0.6 cpmα	Bkg	cpmα	Bkg	cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	12 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due		Cal Due	
Bkg	74.7 cpmβ	Bkg	cpmβ	Bkg	cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	12 dpmβ

Survey Tracking # 883-04-S1309

Survey Type: Contamination

Building: 883

Location: G-3 A Side East wall

Purpose: After Painting

RWP #: 05-880-0001

Date: 1/20/05 Time: 1000

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is depleted uranium. Survey performed on painted deconned walls in G-3 A Side.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
2	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
3	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
4	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	504	N/A	N/A
5	Painted East Wall Random Floor to Ceiling	36	N/A	N/A	<205	N/A	N/A
6	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
7	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
8	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	218	N/A	N/A
9	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
10	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
11	Painted East Wall Random Floor to Ceiling	83	N/A	N/A	<205	N/A	N/A
12	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
13	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
14	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
15	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
16	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
17	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
18	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
19	Painted East Wall Random Floor to Ceiling	43	N/A	N/A	218	N/A	N/A
20	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

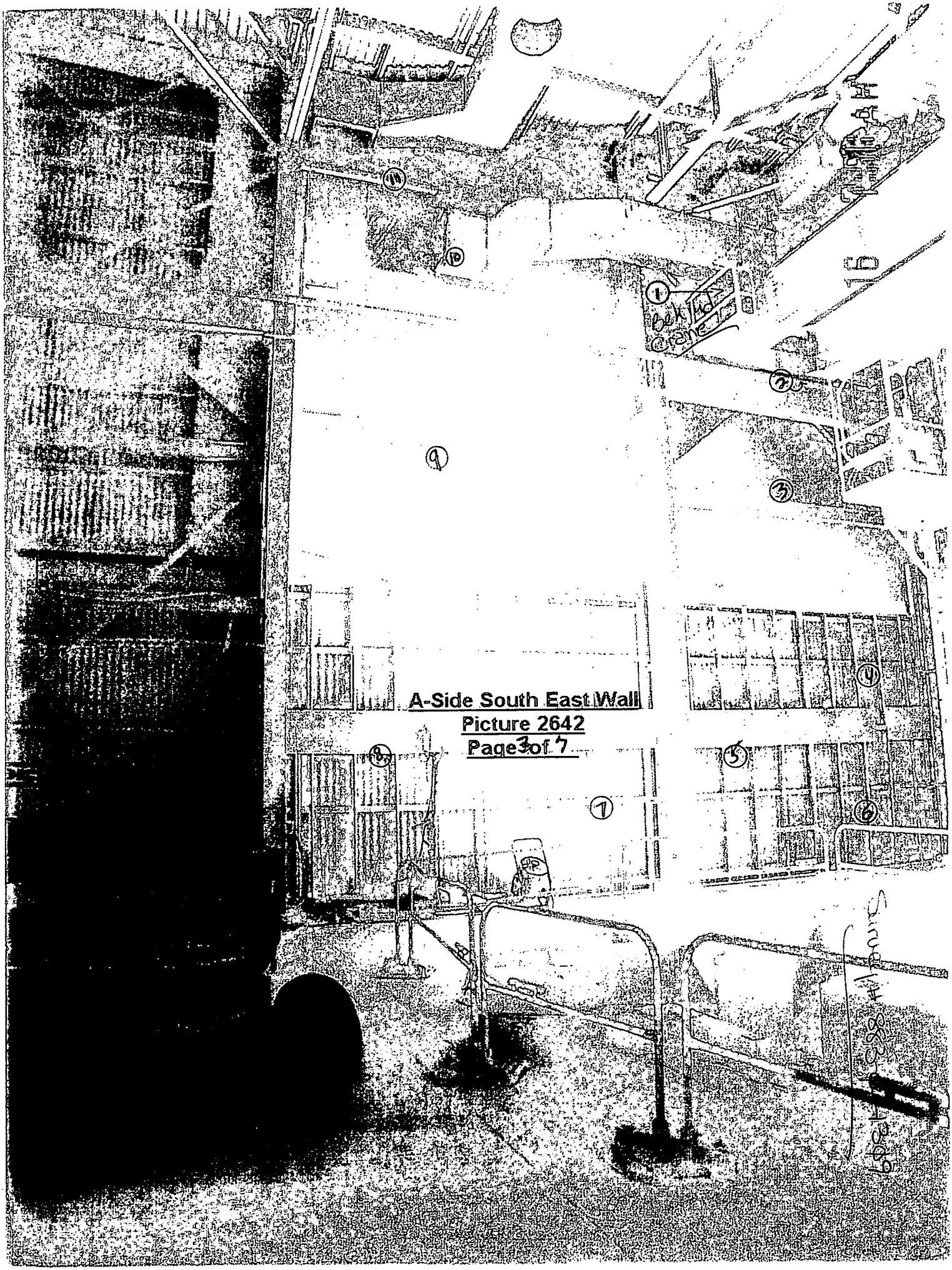
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

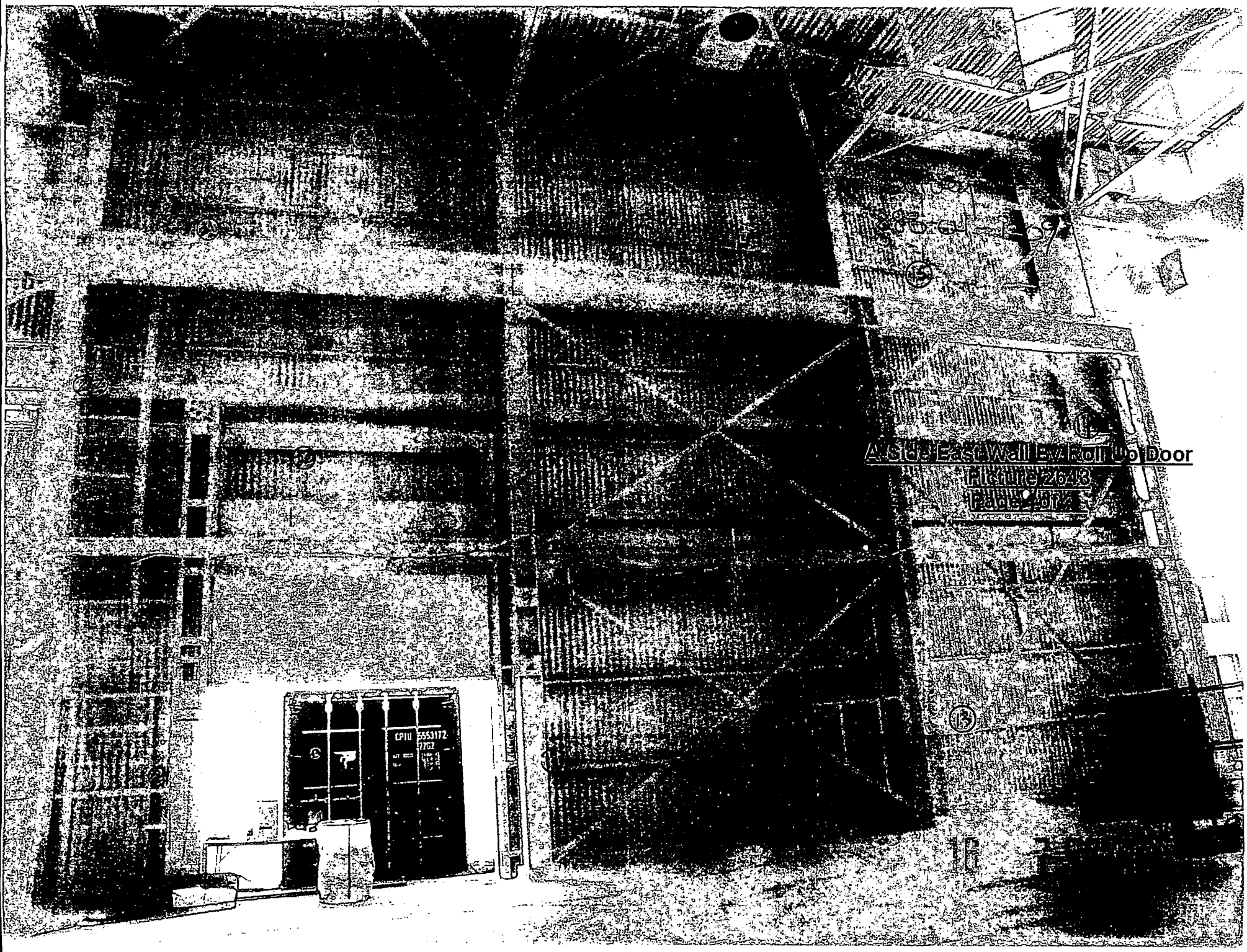
SURVEY RESULTS

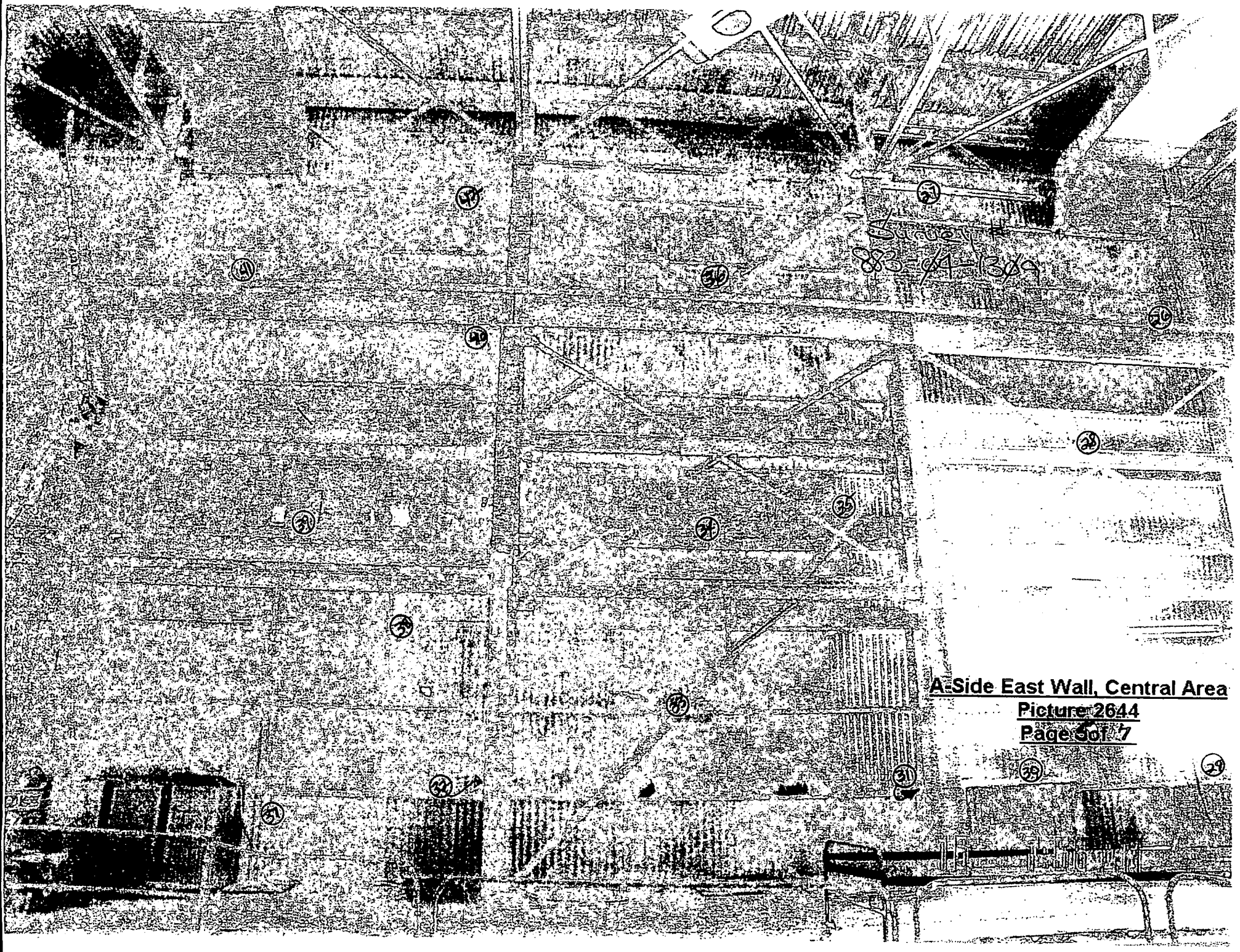
#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
22	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
23	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
24	Painted East Wall Random Floor to Ceiling	60	N/A	N/A	<205	N/A	N/A
25	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
26	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
27	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	300	N/A	N/A
28	Painted East Wall Random Floor to Ceiling	32	N/A	N/A	<205	N/A	N/A
29	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
30	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
31	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	339	N/A	N/A
32	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
33	Painted East Wall Random Floor to Ceiling	32	N/A	N/A	<205	N/A	N/A
34	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
35	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
36	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
37	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
38	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
39	Painted East Wall Random Floor to Ceiling	69	N/A	N/A	<205	N/A	N/A
40	Painted East Wall Random Floor to Ceiling	45	N/A	N/A	325	N/A	N/A
41	Painted East Wall Random Floor to Ceiling	60	N/A	N/A	500	N/A	N/A
42	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
43	Painted East Wall Random Floor to Ceiling	29	N/A	N/A	<205	N/A	N/A
44	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
45	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
46	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	285	N/A	N/A
47	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
48	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
49	Painted East Wall Random Floor to Ceiling	60	N/A	N/A	<205	N/A	N/A
50	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
51	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	545	N/A	N/A
52	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
53	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
54	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	800	N/A	N/A
55	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
56	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
57	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
58	Painted East Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
59	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	N/A	N/A	N/A	N/A
61	N/A	N/A	N/A	N/A	N/A	N/A	N/A
62	N/A	N/A	N/A	N/A	N/A	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A
64	N/A	N/A	N/A	N/A	N/A	N/A	N/A
65	N/A	N/A	N/A	N/A	N/A	N/A	N/A
66	N/A	N/A	N/A	N/A	N/A	N/A	N/A
67	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-51309

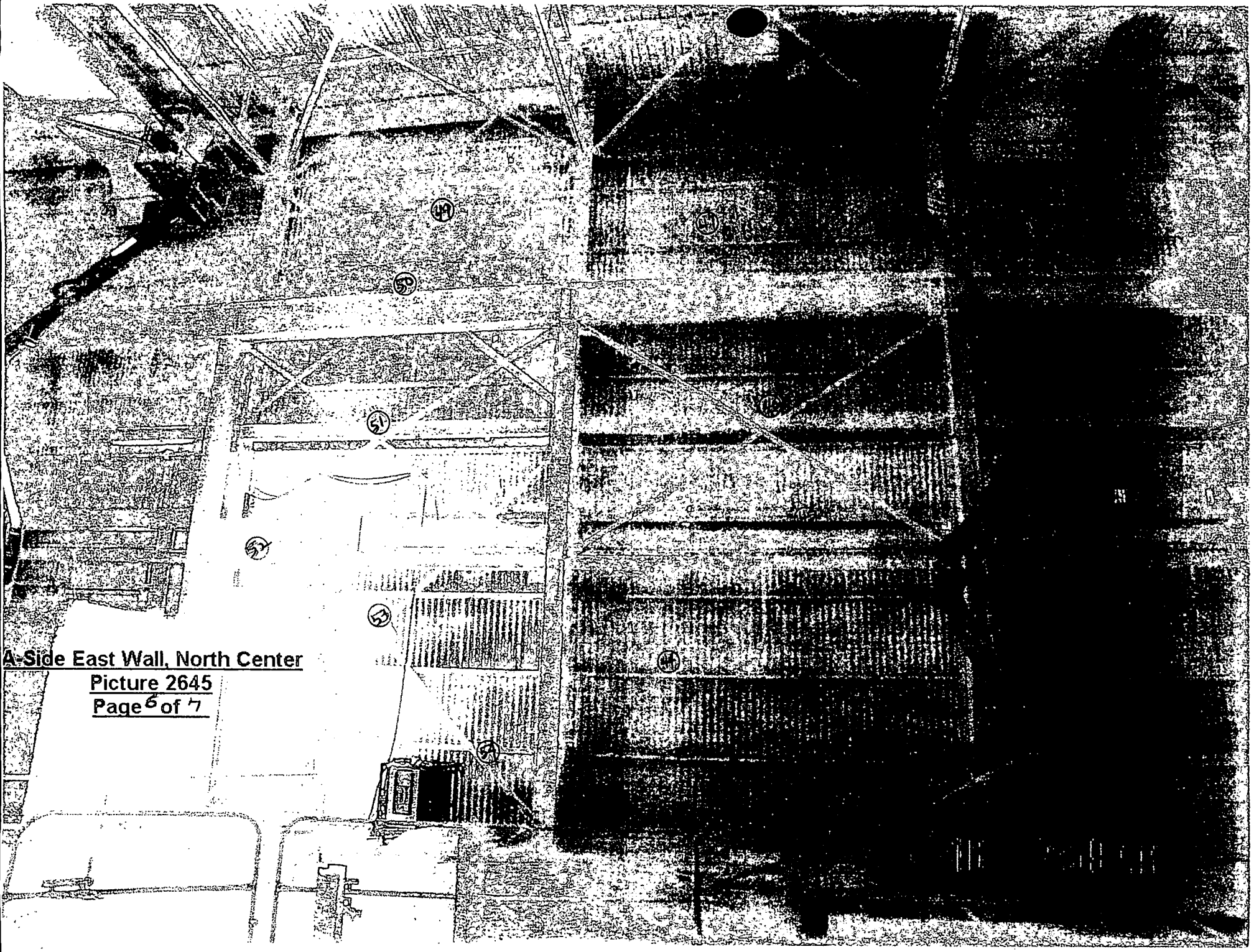
63


A-Side South East Wall
Picture 2642
Page 3 of 7

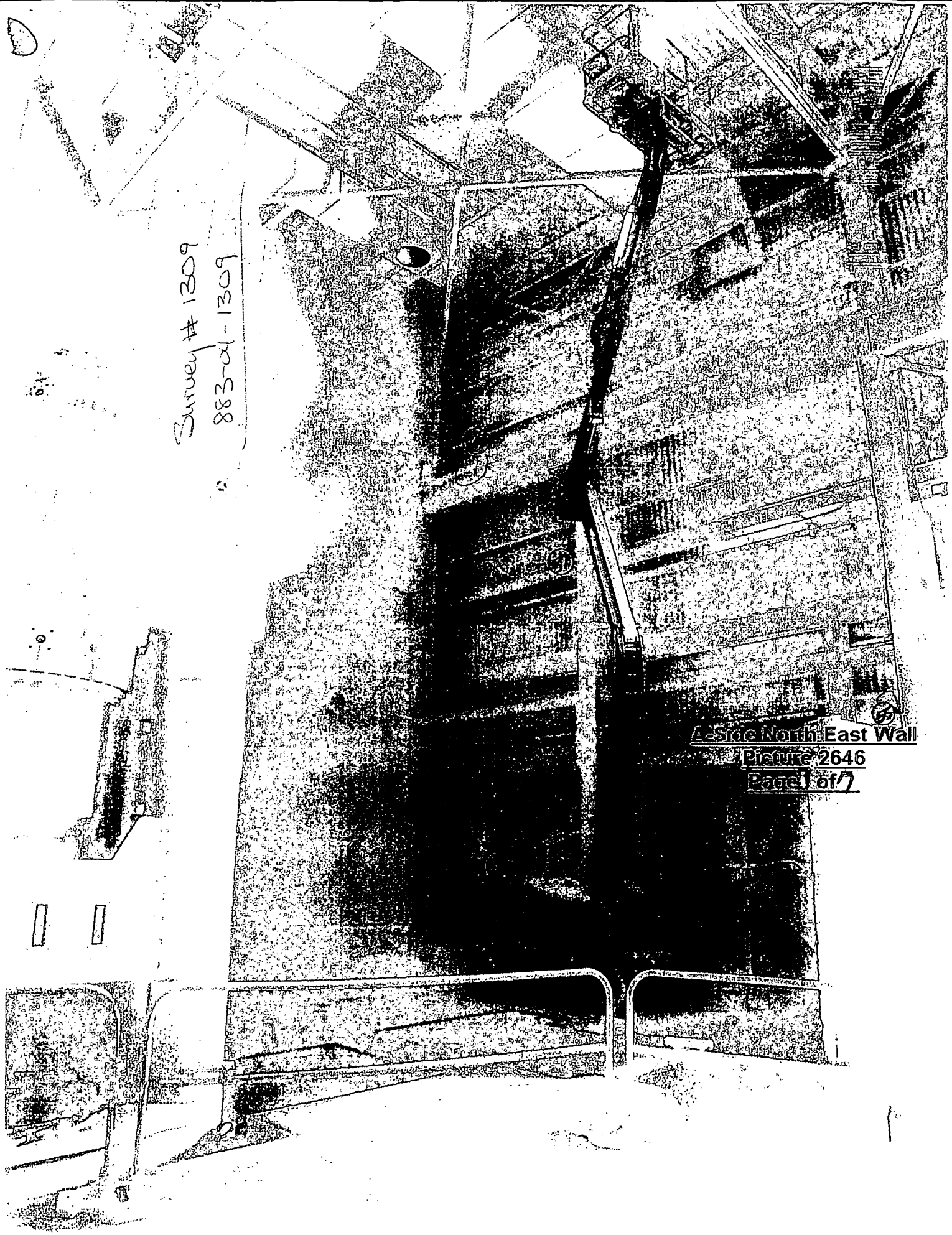

A Side East Wall E/ Roll Up Door
Picture 2643
Page 4 of 4



A-Side East Wall, Central Area
Picture 2644
Page 3 of 7



A-Side East Wall, North Center
Picture 2645
Page 6 of 7



A-Side North East Wall
Picture 2646
Page 1 of 7

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	12 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	
Bkg	71.4 cpmβ	Bkg	N/A cpmβ	Bkg	cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	12 dpmβ

Survey Tracking # 883-04-S1301

Survey Type: Contamination

Building: 883

Location: G-3 A side Westwall

Purpose: After Painting

RWP #: 05-880-0001

Date: 1/17/05 Time: 1300

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is depleted uranium. Survey performed on painted deconned walls in G-3 A Side.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
2	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
3	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
4	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
5	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
6	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
7	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
8	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
9	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
10	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
11	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
12	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
13	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
14	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
15	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
16	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
17	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
18	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
19	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
20	Painted West Wall Random Floor to Ceiling	[redacted]					

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

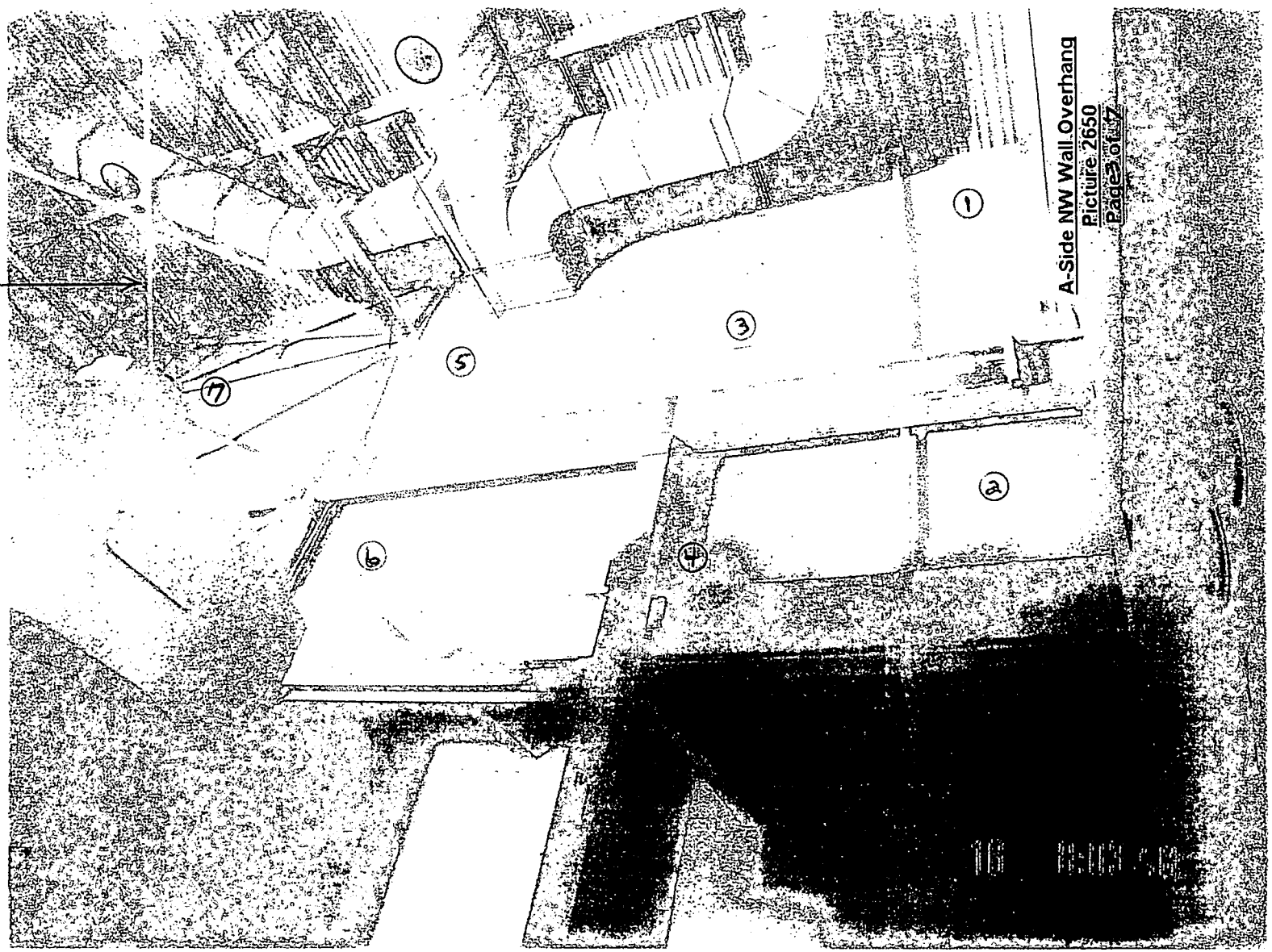
	LOCATION	ALPHA			BETA		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
22	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
23	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
24	Painted West Wall Random Floor to Ceiling	32	N/A	N/A	<205	N/A	N/A
25	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
26	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
27	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	300	N/A	N/A
28	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
29	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
30	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
31	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
32	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
33	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
34	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
35	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
36	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
37	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
38	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
39	Painted West Wall Random Floor to Ceiling	69	N/A	N/A	<205	N/A	N/A
40	Painted West Wall Random Floor to Ceiling	45	N/A	N/A	545	N/A	N/A
41	Painted West Wall Random Floor to Ceiling	60	N/A	N/A	500	N/A	N/A
42	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
43	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
44	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
45	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
46	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
47	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
48	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
49	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
50	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
51	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
52	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
53	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
54	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
55	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
56	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
57	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
58	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
59	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
60	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
61	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
62	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
63	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
64	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
65	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
66	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A
67	Painted West Wall Random Floor to Ceiling	<18	N/A	N/A	<205	N/A	N/A

883-04-S13a1

70

Areas above bottom Cords on overhead Survey

Survey # 883-04-S1301

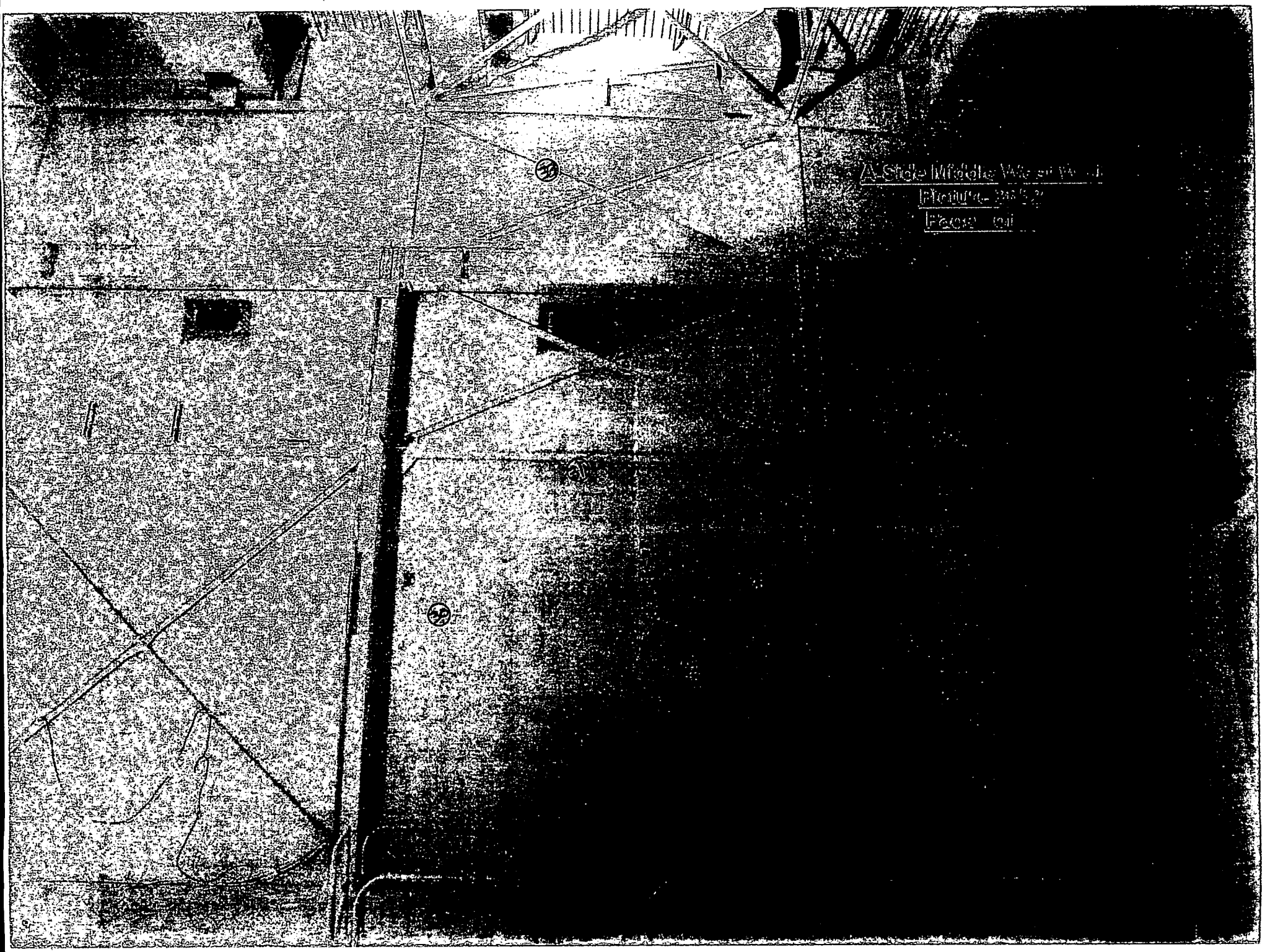


A-Side NW Wall Overhang

Picture 2650

Page 3 of 17

A-Side North West Wall
Picture 2651
Page 4 of 7

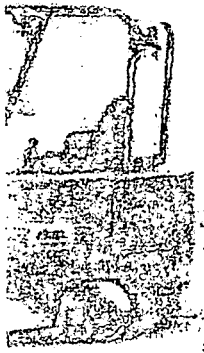


A-Side Middle Wall [illegible]

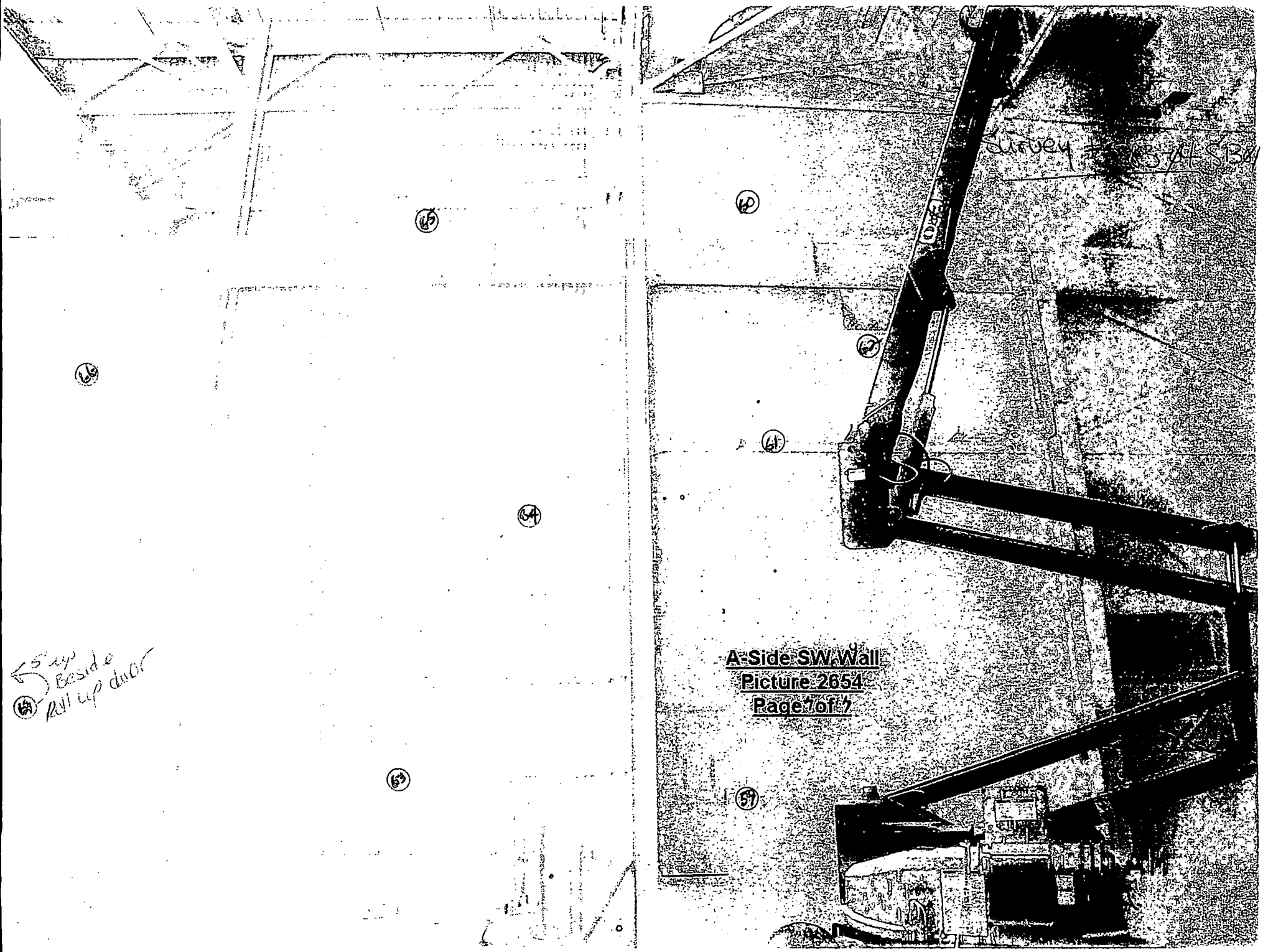
Photo [illegible]

Page [illegible]

Survey # 883-04-S13/01



A-Side Middle West Wall
Picture 2653
Page6 of 7


Survey #
A-Side SW Wall
Picture 2654
Page 7 of 7
5' up
Beside
Roll up door

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	35.10 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	66 dpmα
Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	74.7 cpmβ	Bkg	N/A cpmβ	Bkg	506.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	205 dpmβ	MDA	dpmβ	MDA	488 dpmβ

Survey Tracking # 883-04-S1307

Survey Type: Contamination

Building: 883

Location: Rm# 109 Walls

Purpose: Post fixative

RWP #: 05-880-0001

Date: 1/21/05 Time: 16:00

[redacted]

Print name / Signature / Emp. #

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above. Rm # 109 has no East Wall,

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Rm # 109 North Wall	<18	<66	N/A	<205	995	N/A
2	Rm # 109 North Wall	<18	<66	N/A	<205	<488	N/A
3	Rm # 109 North Wall	<18	<66	N/A	<205	<488	N/A
4	Rm # 109 North Wall	<18	<66	N/A	<205	<488	N/A
5	Rm # 109 North Wall	<18	<66	N/A	<205	<488	N/A
6	Rm # 109 North Wall	<18	<66	N/A	<205	<488	N/A
7	Rm # 109 North Wall	<18	<66	N/A	<205	<488	N/A
8	Rm # 109 North Wall (Ledge)	<18	165	N/A	830	25K	N/A
9	Rm # 109 North Wall (Ledge)	<18	180	N/A	440	65K	N/A
10	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
11	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
12	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
13	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
14	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
15	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
16	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
17	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
18	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
19	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
20	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Rm # 109 West Wall (Ledge)	36	300	N/A	750	23K	N/A
22	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
23	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
24	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
25	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
26	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
27	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
28	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
29	Rm # 109 West Wall	<18	<66	N/A	<205	<488	N/A
30	Rm # 109 South Wall	<18	<66	N/A	<205	<488	N/A
31	Rm # 109 South Wall	<18	<66	N/A	<205	<488	N/A
32	Rm # 109 South Wall	<18	<66	N/A	<205	<488	N/A
33	Rm # 109 South Wall	<18	<66	N/A	<205	<488	N/A
34	Rm # 109 South Wall	<18	<66	N/A	<205	<488	N/A
35	Rm # 109 South Wall (Ledge)	30	80	N/A	435	8K	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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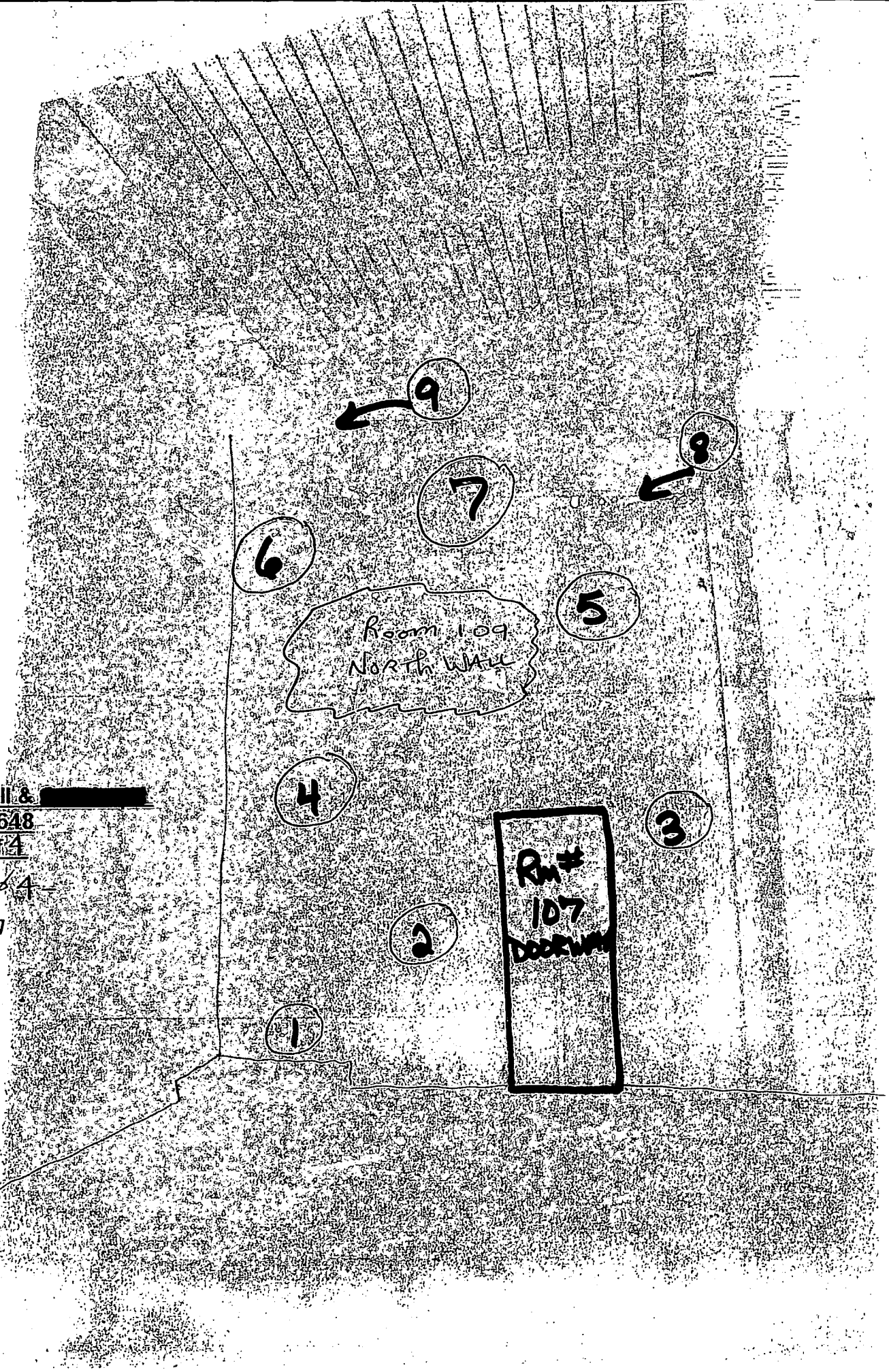
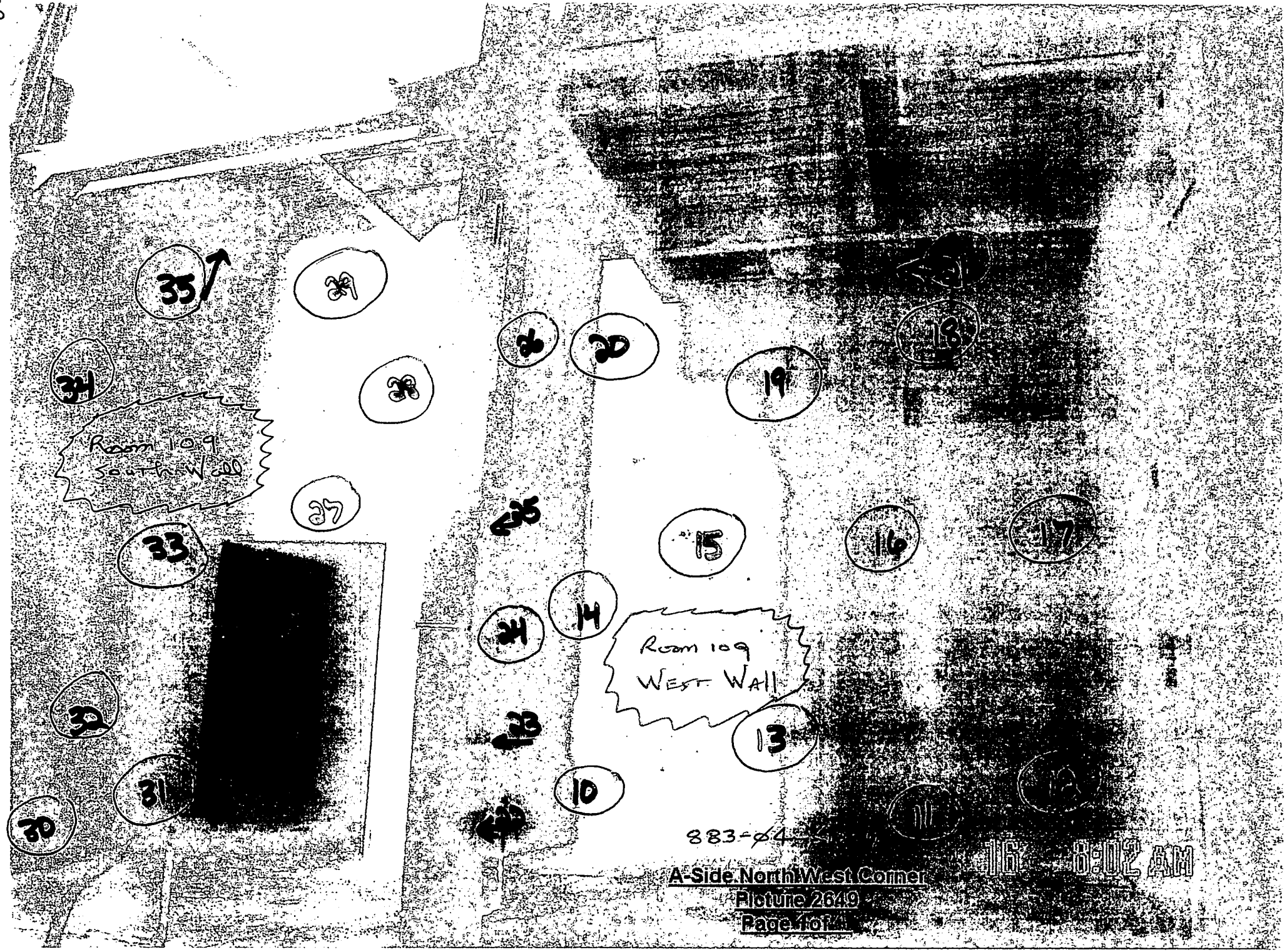
77



109 North Wall & [redacted]
Picture 2648
Page 3 of 4

883-04-
51307



A-Side.NorthWest Corner
Picture 2649
Page 4 of 4

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	35.10 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	71 dpmα
Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	68.9 cpmβ	Bkg	N/A cpmβ	Bkg	510.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	205 dpmβ	MDA	dpmβ	MDA	490 dpmβ

Survey Tracking # 883-04-S1308
Survey Type: Contamination
Building: 883
Location: Rm# 103 Overhead
Purpose: Post fixative

RWP #: 05-880-0001

Date: 1/19/05 Time: 16:00

R[redacted]

Print name / Signature / Emp. #

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A
Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Rm # 103 Overhead	<18	<71	N/A	<205	<490	N/A
2	Rm # 103 Overhead (I-Beam)	<18	<71	N/A	<205	<490	N/A
3	Rm # 103 Overhead (I-Beam)	<18	<71	N/A	<205	<490	N/A
4	Rm # 103 Overhead	<18	<71	N/A	<205	<490	N/A
5	Rm # 103 Overhead	<18	<71	N/A	<205	<490	N/A
6	Rm # 103 Overhead	<18	<71	N/A	<205	<490	N/A
7	Rm # 103 Overhead	<18	<71	N/A	<205	<490	N/A
8	Rm # 103 Overhead	<18	<71	N/A	<205	<490	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	[redacted]					

Date Reviewed: 1/21/05 **RS Supervision:** [redacted]

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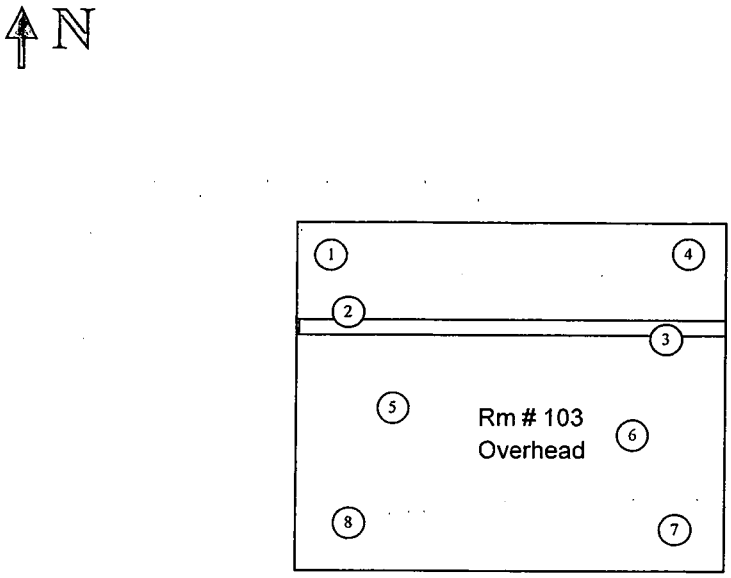
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



883-04-51308

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	35.10 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	66 dpmα
Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	74.7 cpmβ	Bkg	N/A cpmβ	Bkg	506.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	205 dpmβ	MDA	dpmβ	MDA	488 dpmβ

Survey Tracking # 883-04-S1313
Survey Type: Contamination
Building: 883
Location: Rm# 109 Overhead
Purpose: Post fixative

RWP #: 05-880-0001

[redacted]

RCT: N/A / N/A / N/A
Print name / Signature / Emp. #

PRN/REN # : N/A
Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above. Rm # 109 has no East Wall.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Rm # 109 Overhead (I-Beam Ledge)	<18	80	N/A	<205	8K	N/A
2	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
3	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
4	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
5	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
6	Rm # 109 Overhead (I-Beam Ledge)	<18	70	N/A	<205	5K	N/A
7	Rm # 109 Overhead (I-Beam Ledge)	<18	115	N/A	<205	15K	N/A
8	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
9	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
10	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
11	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
12	Rm # 109 Overhead (I-Beam Ledge)	<18	100	N/A	<205	7K	N/A
13	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
14	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
15	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
16	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
17	Rm # 109 Overhead (I-Beam Ledge)	<18	105	N/A	<205	15K	N/A
18	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
19	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
20	Rm # 109 Overhead	[redacted]					

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Rm # 109 Overhead	<18	<66	N/A	<205	<488	N/A
22	Rm # 109 Overhead (I-Beam Ledge)	42	200	N/A	365	20K	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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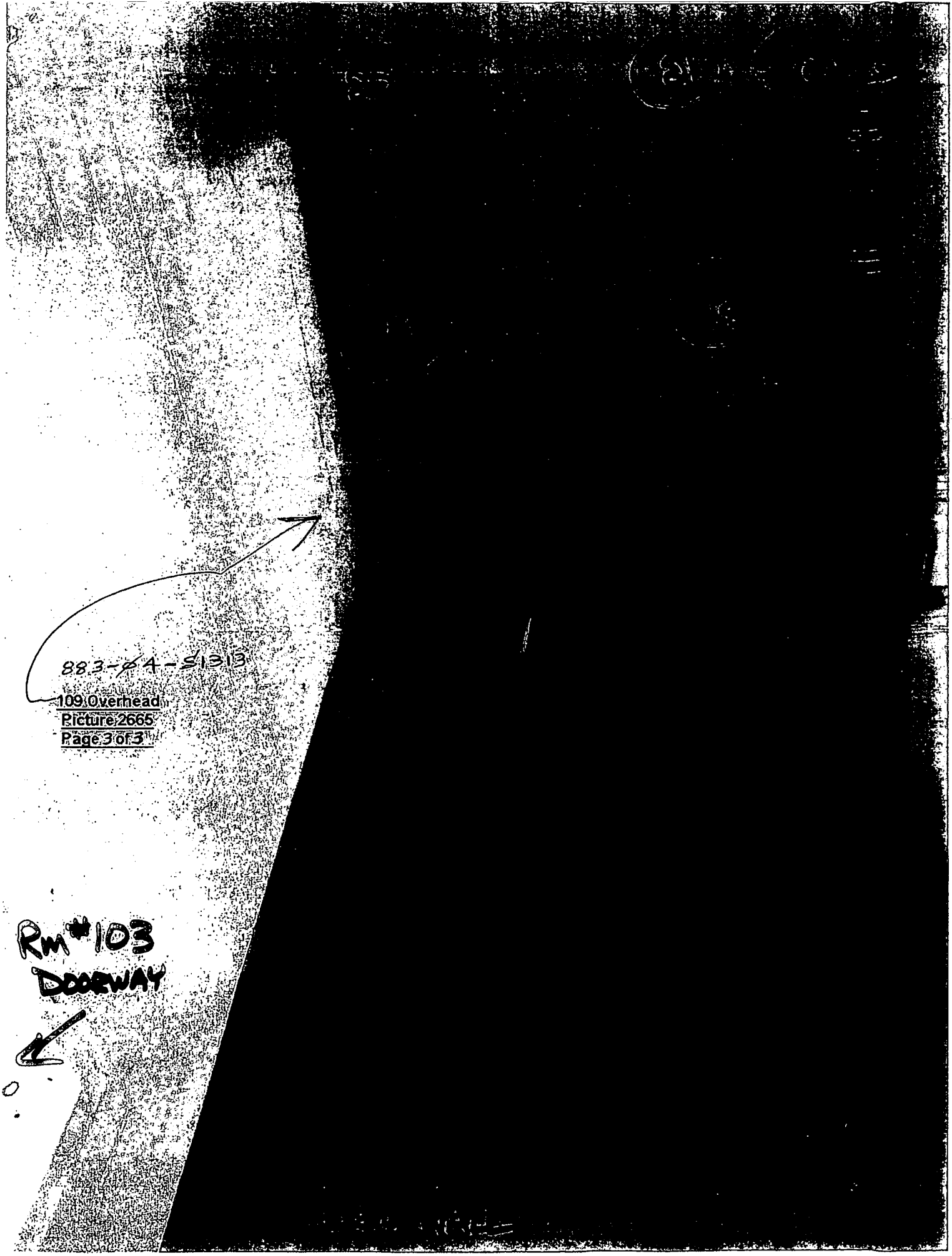
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-51313

83


883-04-S1313
109 Overhead
Picture 2665
Page 3 of 3
Rm #103
DOORWAY

84

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due		Cal Due	
Bkg	0.2 cpmα	Bkg	cpmα	Bkg	cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	12 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due		Cal Due	
Bkg	68.9 cpmβ	Bkg	cpmβ	Bkg	cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	12 dpmβ

Survey Tracking # 883-04-S1300

Survey Type: Contamination

Building: 883

Location: G-3 A Side Overhead

Purpose: After Painting

RWP #: 05-880-0001

Date: 1/19/05 Time: 1900

R[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is depleted uranium. Survey performed on painted deconned walls in G-3 A Side.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
2	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
3	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
4	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	504	N/A	N/A
5	Painted Random Ceiling, Ducts, and Bracing	36	N/A	N/A	<205	N/A	N/A
6	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
7	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
8	Painted Random Ceiling, Ducts, and Bracing	24	N/A	N/A	218	N/A	N/A
9	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
10	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
11	Painted Random Ceiling, Ducts, and Bracing	83	N/A	N/A	<205	N/A	N/A
12	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
13	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
14	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	464	N/A	N/A
15	Painted Random Ceiling, Ducts, and Bracing	40	N/A	N/A	<205	N/A	N/A
16	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
17	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
18	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
19	Painted Random Ceiling, Ducts, and Bracing	43	N/A	N/A	218	N/A	N/A
20	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A

Date Reviewed: 1/22/05 **RS Supervisio**[redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

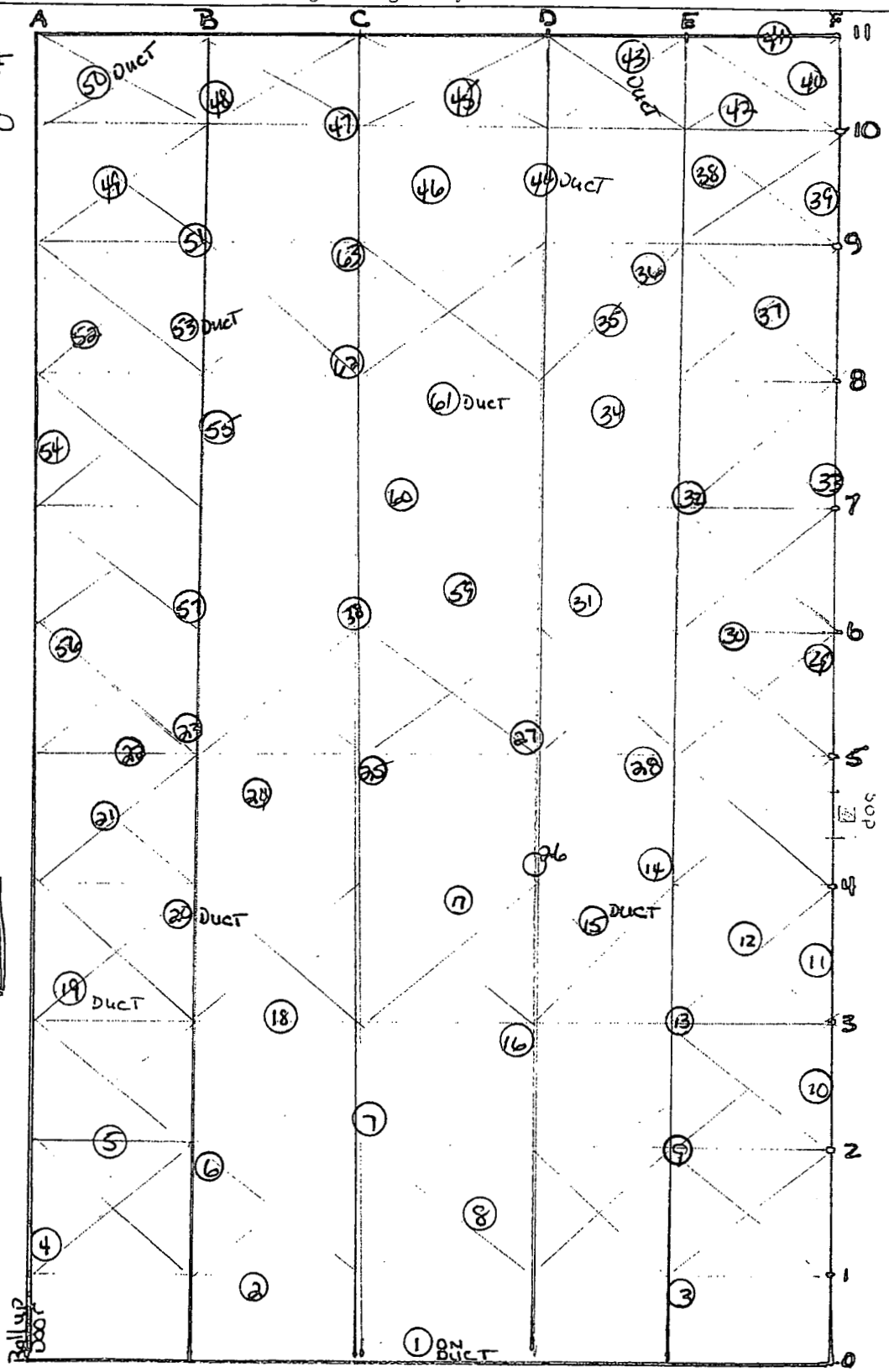
SURVEY RESULTS

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
22	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
23	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
24	Painted Random Ceiling, Ducts, and Bracing	60	N/A	N/A	<205	N/A	N/A
25	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
26	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
27	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	300	N/A	N/A
28	Painted Random Ceiling, Ducts, and Bracing	32	N/A	N/A	<205	N/A	N/A
29	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
30	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
31	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	339	N/A	N/A
32	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
33	Painted Random Ceiling, Ducts, and Bracing	32	N/A	N/A	<205	N/A	N/A
34	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	285	N/A	N/A
35	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
36	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
37	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
38	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
39	Painted Random Ceiling, Ducts, and Bracing	69	N/A	N/A	<205	N/A	N/A
40	Painted Random Ceiling, Ducts, and Bracing	45	N/A	N/A	325	N/A	N/A
41	Painted Random Ceiling, Ducts, and Bracing	60	N/A	N/A	500	N/A	N/A
42	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
43	Painted Random Ceiling, Ducts, and Bracing	29	N/A	N/A	<205	N/A	N/A
44	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
45	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
46	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	285	N/A	N/A
47	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
48	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
49	Painted Random Ceiling, Ducts, and Bracing	60	N/A	N/A	<205	N/A	N/A
50	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	384	N/A	N/A
51	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	545	N/A	N/A
52	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
53	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
54	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	800	N/A	N/A
55	Painted Random Ceiling, Ducts, and Bracing	72	N/A	N/A	<205	N/A	N/A
56	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
57	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
58	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
59	Painted Random Ceiling, Ducts, and Bracing	63	N/A	N/A	<205	N/A	N/A
60	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
61	Painted Random Ceiling, Ducts, and Bracing	149	N/A	N/A	440	N/A	N/A
62	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
63	Painted Random Ceiling, Ducts, and Bracing	<18	N/A	N/A	<205	N/A	N/A
64	N/A	N/A	N/A	N/A	N/A	N/A	N/A
65	N/A	N/A	N/A	N/A	N/A	N/A	N/A
66	N/A	N/A	N/A	N/A	N/A	N/A	N/A
67	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

SURVEY #
883-04-1300



883-G3
OVERHEAD

A–F
Ceiling
Supports

0–11
columns

CHORD
BRACES
Shown

N

87

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	35.80 %	Efficiency	N/A %	Efficiency	N/A %
MDA	18 dpmα	MDA	20 dpmα	MDA	####### dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	N/A	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	71.4 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	168 dpmβ	MDA	200 dpmβ	MDA	####### dpmβ

Survey Tracking # 883-04-S1280

Survey Type: Contamination

Building: 883

Location: A-SIDE OVERHEAD CRANE

Purpose: POST-FIXATIVE

RWP #: 05-880-0001

Date: 1/17/05 Time: 0900

[redacted]

	Print name	Signature	Emp. #
RCT:	NA	NA	NA

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed to characterize contamination levels after painting.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	EAST RAIL	<18	N/A	N/A	<168	N/A	N/A
2	NORTH BRIDGE RAIL	<18	N/A	N/A	<168	N/A	N/A
3	NORTH BRIDGE RAIL	<18	N/A	N/A	<168	N/A	N/A
4	TROLLY	<18	N/A	N/A	<168	N/A	N/A
5	TROLLY	<18	N/A	N/A	<168	N/A	N/A
6	TROLLY	<18	N/A	N/A	<168	N/A	N/A
7	TROLLY	<18	N/A	N/A	<168	N/A	N/A
8	TROLLY	<18	N/A	N/A	<168	N/A	N/A
9	SOUTH BRIDGE RAIL	45	N/A	N/A	425	N/A	N/A
10	WEST RAIL	130	N/A	N/A	260	N/A	N/A
11	NORTH BRIDGE RAIL	80	N/A	N/A	526	N/A	N/A
12	NORTH BRIDGE RAIL	<18	N/A	N/A	<168	N/A	N/A
13	NORTH BRIDGE RAIL	<18	N/A	N/A	<168	N/A	N/A
14	SOUTH BRIDGE RAIL	<18	N/A	N/A	<168	N/A	N/A
15	SOUTH BRIDGE RAIL	<18	N/A	N/A	<168	N/A	N/A
16	WALKWAY	<18	N/A	N/A	<168	N/A	N/A
17	OPERATORS BOOTH	<18	N/A	N/A	<168	N/A	N/A
18	WALKWAY	45	N/A	N/A	<168	N/A	N/A
19	WALKWAY	<18	N/A	N/A	<168	N/A	N/A
20	WALKWAY	66	N/A	N/A	440	N/A	N/A

Date Reviewed: 1/18/05 **RS Supervision:** [redacted]

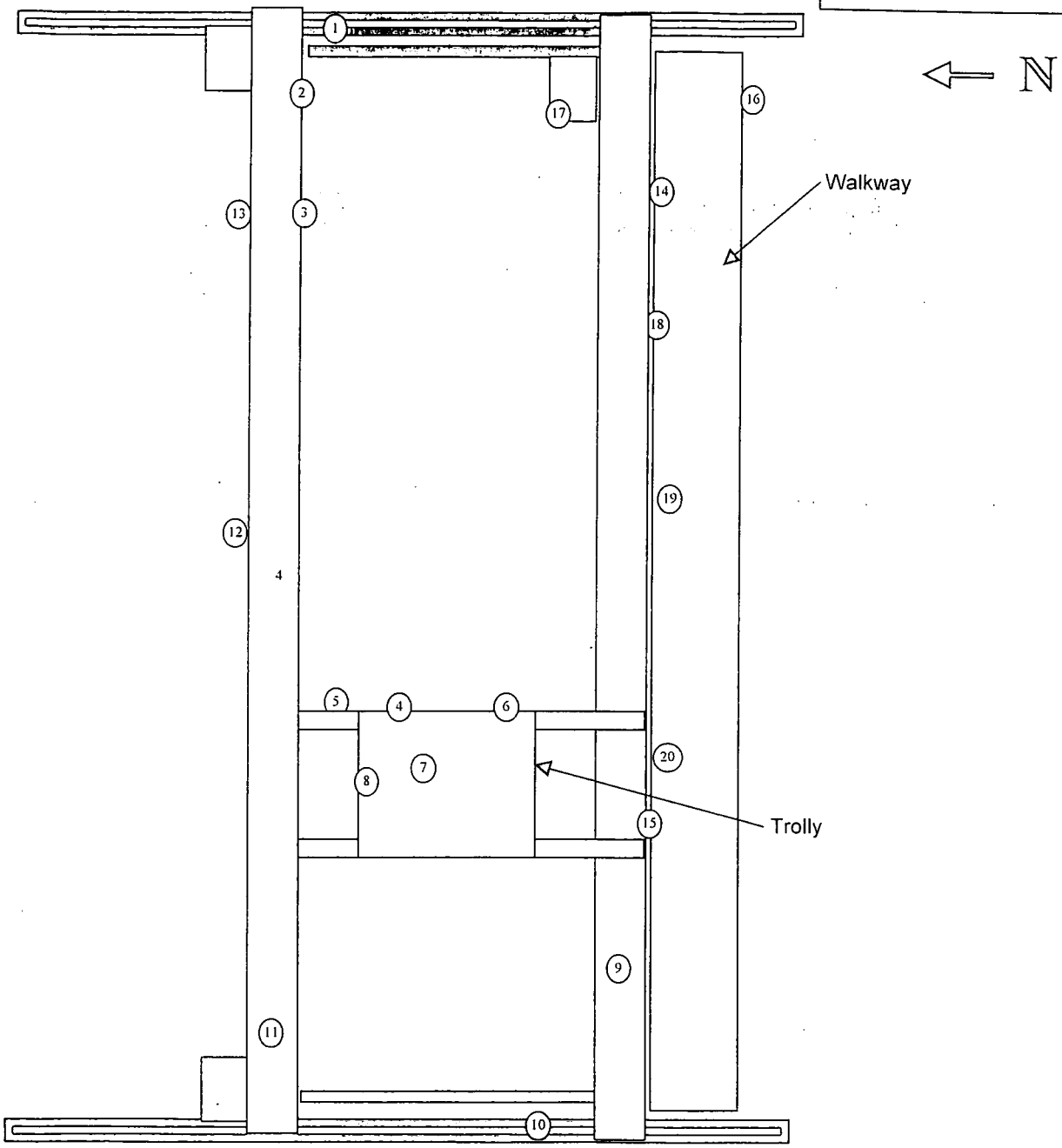
COPY

88

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

Survey #883-04-1280 1-17-05



A Side Overhead Crane

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	172102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	###### dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	172102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	65.5 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	###### dpmβ

Survey Tracking # 883-04-S1299

Survey Type: Contamination

Building: 883

Location: Inside Overhead Supply Duct

Purpose: After Painting

RWP #: 05-880-0001

Date: 1/18/05 Time: 1700

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is depleted uranium. Survey performed on painted deconned west wall in G-3 .

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	South end 1st Duct	<18	N/A	N/A	<205	N/A	N/A
2	South end 1st Duct	<18	N/A	N/A	<205	N/A	N/A
3	Ducts between 1st and 2nd column	<18	N/A	N/A	<205	N/A	N/A
4	Ducts between 1st and 2nd column	<18	N/A	N/A	<205	N/A	N/A
5	Ducts between 1st and 2nd column	<18	N/A	N/A	<205	N/A	N/A
6	Ducts between 2nd and 3rd column	<18	N/A	N/A	<205	N/A	N/A
7	Ducts between 3rd and 4th column	24	N/A	N/A	<205	N/A	N/A
8	Ducts between 3rd and 4th column	<18	N/A	N/A	<205	N/A	N/A
9	Ducts between 4th and 5th column	<18	N/A	N/A	<205	N/A	N/A
10	Ducts between 4th and 5th column	<18	N/A	N/A	<205	N/A	N/A
11	Ducts between 3rd and 4th column	<18	N/A	N/A	<205	N/A	N/A
12	Ducts between 4th and 5th column	<18	N/A	N/A	<205	N/A	N/A
13	Ducts between 5th and 6th column	<18	N/A	N/A	<205	N/A	N/A
14	Ducts between 6th and 7th column	<18	N/A	N/A	<205	N/A	N/A
15	Ducts between 5th and 6th column	<18	N/A	N/A	<205	N/A	N/A
16	Ducts between 6th and 7th column	36	N/A	N/A	<205	N/A	N/A
17	Ducts between 7th and 8th column	<18	N/A	N/A	<205	N/A	N/A
18	Ducts between 8th and 9th column	<18	N/A	N/A	<205	N/A	N/A
19	Ducts between 8th and 9th column	<18	N/A	N/A	<205	N/A	N/A
20	Ducts between 7th and 8th column	<18	N/A	N/A	<205	N/A	N/A

Date Reviewed: 1/21/05 **RS Supervision:** [redacted]

COPY

PO

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Ducts between 10th and 11th column	<18	N/A	N/A	<205	N/A	N/A
22	Ducts between 10th and 11th column	<18	N/A	N/A	<205	N/A	N/A
23	Ducts between 10th and 11th column	<18	N/A	N/A	<205	N/A	N/A
24	Ducts between 9th and 10th column	32	N/A	N/A	<205	N/A	N/A
25	N/A	N/A	N/A	N/A	N/A	N/A	N/A
26	N/A	N/A	N/A	N/A	N/A	N/A	N/A
27	N/A	N/A	N/A	N/A	N/A	N/A	N/A
28	N/A	N/A	N/A	N/A	N/A	N/A	N/A
29	N/A	N/A	N/A	N/A	N/A	N/A	N/A
30	N/A	N/A	N/A	N/A	N/A	N/A	N/A
31	N/A	N/A	N/A	N/A	N/A	N/A	N/A
32	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33	N/A	N/A	N/A	N/A	N/A	N/A	N/A
34	N/A	N/A	N/A	N/A	N/A	N/A	N/A
35	N/A	N/A	N/A	N/A	N/A	N/A	N/A
36	N/A	N/A	N/A	N/A	N/A	N/A	N/A
37	N/A	N/A	N/A	N/A	N/A	N/A	N/A
38	N/A	N/A	N/A	N/A	N/A	N/A	N/A
39	N/A	N/A	N/A	N/A	N/A	N/A	N/A
40	N/A	N/A	N/A	N/A	N/A	N/A	N/A
41	N/A	N/A	N/A	N/A	N/A	N/A	N/A
42	N/A	N/A	N/A	N/A	N/A	N/A	N/A
43	N/A	N/A	N/A	N/A	N/A	N/A	N/A
44	N/A	N/A	N/A	N/A	N/A	N/A	N/A
45	N/A	N/A	N/A	N/A	N/A	N/A	N/A
46	N/A	N/A	N/A	N/A	N/A	N/A	N/A
47	N/A	N/A	N/A	N/A	N/A	N/A	N/A
48	N/A	N/A	N/A	N/A	N/A	N/A	N/A
49	N/A	N/A	N/A	N/A	N/A	N/A	N/A
50	N/A	N/A	N/A	N/A	N/A	N/A	N/A
51	N/A	N/A	N/A	N/A	N/A	N/A	N/A
52	N/A	N/A	N/A	N/A	N/A	N/A	N/A
53	N/A	N/A	N/A	N/A	N/A	N/A	N/A
54	N/A	N/A	N/A	N/A	N/A	N/A	N/A
55	N/A	N/A	N/A	N/A	N/A	N/A	N/A
56	N/A	N/A	N/A	N/A	N/A	N/A	N/A
57	N/A	N/A	N/A	N/A	N/A	N/A	N/A
58	N/A	N/A	N/A	N/A	N/A	N/A	N/A
59	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	N/A	N/A	N/A	N/A
61	N/A	N/A	N/A	N/A	N/A	N/A	N/A
62	N/A	N/A	N/A	N/A	N/A	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A
64	N/A	N/A	N/A	N/A	N/A	N/A	N/A
65	N/A	N/A	N/A	N/A	N/A	N/A	N/A
66	N/A	N/A	N/A	N/A	N/A	N/A	N/A
67	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-51299

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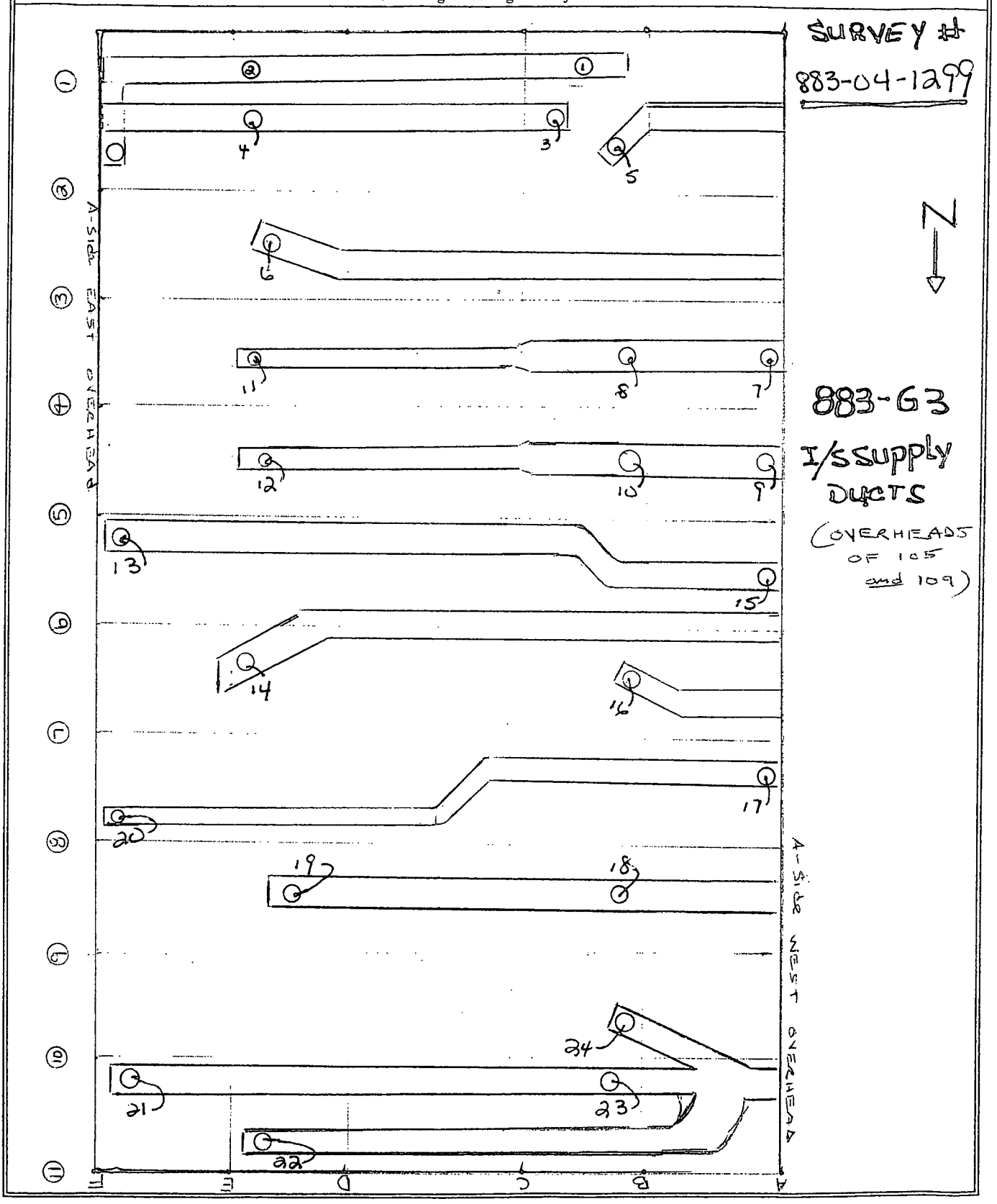
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



92

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1290
Cal Due	3/14/05	Cal Due	N/A	Cal Due	6/2/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	2.0 cpmα
Efficiency	35.80 %	Efficiency	N/A %	Efficiency	21.30 %
MDA	18 dpmα	MDA	N/A dpmα	MDA	44 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1290
Cal Due	3/14/05	Cal Due	N/A	Cal Due	6/2/05
Bkg	78.5 cpmβ	Bkg	N/A cpmβ	Bkg	440.0 cpmβ
Efficiency	25.00 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	176 dpmβ	MDA	N/A dpmβ	MDA	456 dpmβ

Survey Tracking # 883-05-S1329

Survey Type: Contamination

Building: 883

Location: Room 105 A-Mill Loewy

Purpose: Follow up survey to S1177 (Post-Fixative)

RWP #: 05-880-0001

Date: 1/24/05 Time: 1600

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

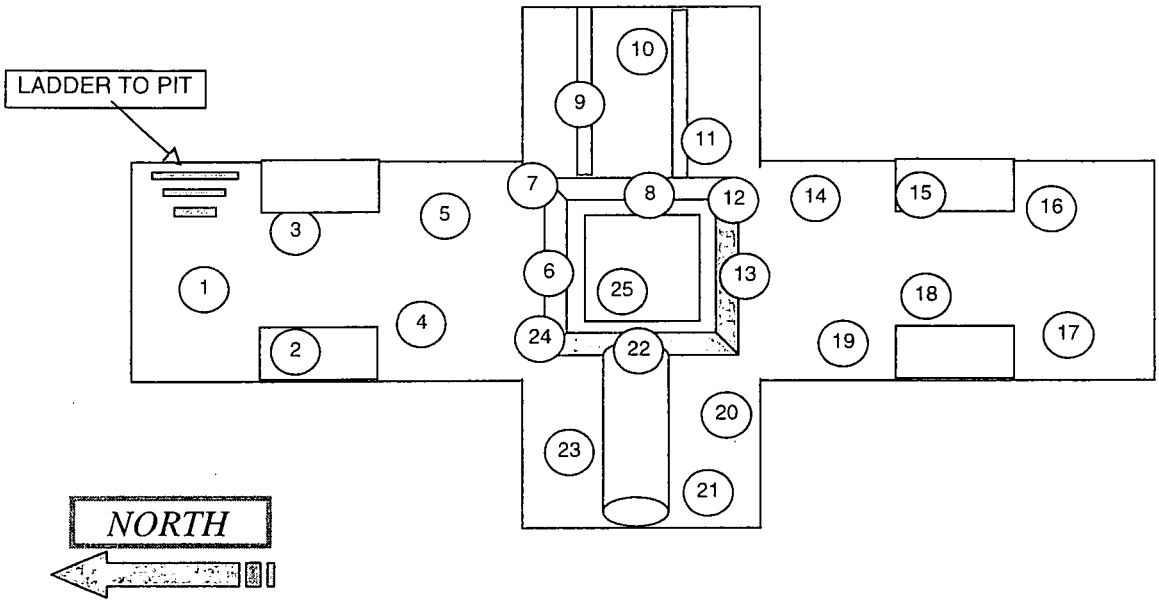
Comments: Nuclides of concern is Depleted Uranium. Conversion factor adjusted above. Survey conducted for the purpose of the effectiveness of the decon effort. Paint was sprayed on surfaces that were found to be above 1k d/m beta removable. This survey is a follow up for the S1177 initial pre-paint survey performed.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1,4,5,	Pit Floor	<18	N/A	N/A	480	N/A	N/A
2	Shelf in Pit	<18	N/A	N/A	800	N/A	N/A
3	Vertical Wall	<18	N/A	N/A	680	N/A	N/A
6	Northside Equipment	<18	N/A	N/A	800	N/A	N/A
7	Vertical Wall	<18	N/A	N/A	600	N/A	N/A
8	Eastside equipment	<18	N/A	N/A	800	N/A	N/A
9,10,11	Pit floor	<18	N/A	N/A	450	N/A	N/A
12	Southside equipment	<18	N/A	N/A	500	N/A	N/A
13	Southside equipment	<18	N/A	N/A	864	N/A	N/A
14	Pit Floor	<18	N/A	N/A	600	N/A	N/A
15	table Top	<18	N/A	N/A	828	N/A	N/A
16,17	Pit Floor	<18	N/A	N/A	500	N/A	N/A
18	Vertical wall	<18	N/A	N/A	865	N/A	N/A
19	Vertical wall	<18	N/A	N/A	270	N/A	N/A
20	Pit Floor	<18	N/A	N/A	688	N/A	N/A
21	Pit Floor	<18	N/A	N/A	300	N/A	N/A
22	West side equipment	<18	N/A	N/A	600	N/A	N/A
23	Pit Floor	<18	N/A	N/A	450	N/A	N/A
24	Northwest Corner Equipment	<18	N/A	N/A	780	N/A	N/A
25	Center Area equipment floor level	<18	N/A	N/A	800	N/A	N/A

Date Reviewed: 1/24/05 **RS Supervision:** [redacted]

LOEWY MILL SURVEY



Page 2 of 2
883-45-51329

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1290
Cal Due	3/14/05	Cal Due	N/A	Cal Due	6/2/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	2.0 cpmα
Efficiency	35.80 %	Efficiency	N/A %	Efficiency	21.30 %
MDA	18 dpmα	MDA	N/A dpmα	MDA	44 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1290
Cal Due	3/14/05	Cal Due	N/A	Cal Due	6/2/05
Bkg	78.5 cpmβ	Bkg	N/A cpmβ	Bkg	440.0 cpmβ
Efficiency	25.00 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	176 dpmβ	MDA	N/A dpmβ	MDA	456 dpmβ

Survey Tracking # 883-05-S1331

Survey Type: Contamination

Building: 883

Location: Room 105 Pedistol

Purpose: Follow up Post Paint Survey

RWP #:

Date: 1/24/05 Time: 1600

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern is Depleted Uranium. Conversion factor adjusted above. Survey for the release of the pedistol located in the 105 room South of Loewy Pit. Survey conducted after the repainting of the pad and found to be under 1k d/m beta.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Northwest Crack	<18	N/A	N/A	<456	N/A	N/A
2	Southwest Crack	<18	N/A	N/A	<456	N/A	N/A
3	South	<18	N/A	N/A	<456	N/A	N/A
4	South	<18	N/A	N/A	<456	N/A	N/A
5	South	<18	N/A	N/A	<456	N/A	N/A
6	Southeast	<18	N/A	N/A	<456	N/A	N/A
7	Northeast crack	<18	N/A	N/A	<456	N/A	N/A
8	North	<18	N/A	N/A	<456	N/A	N/A
9	Center	<18	N/A	N/A	<456	N/A	N/A
10	Center	<18	N/A	N/A	<456	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 1/24/05 **RS Supervision:** [redacted]

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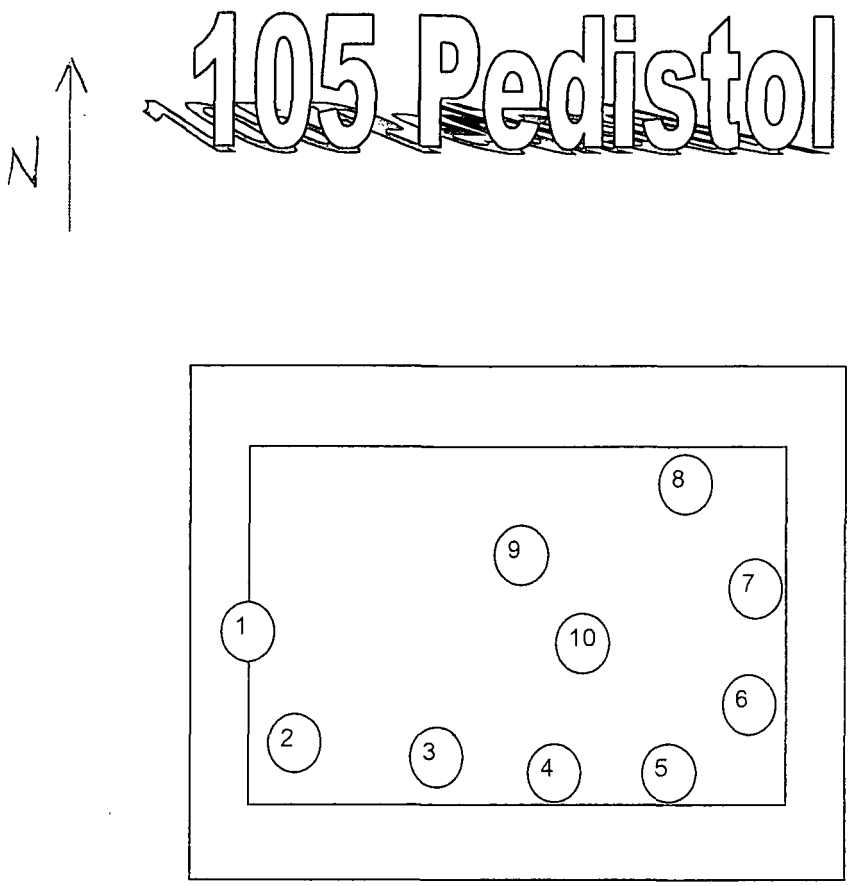
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



883-65-P1331

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1134
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	22.30 %
MDA	18 dpmα	MDA	20 dpmα	MDA	59 dpmα

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1134
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/20/0
Bkg	74.7 cpmβ	Bkg	N/A cpmβ	Bkg	506.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	488 dpmβ

Survey Tracking # 883-04-S1311

Survey Type: Contamination

Building: 883

Location: A-SIDE- ERIE -PIT

Purpose: POST FIXATIVE Decon

RWP #: 05-880-0001

Date: 1/21/05 Time: 16:00

[redacted]

RCT:	NA	NA	NA
	Print name	Signature	Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern is Depleted Uranium, correction factor adjusted above. Decon proved to be successful for the Erie Pit West wall.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Pedistol Floor	<18	<54	N/A	<205	655K	N/A
2	Pedistol Floor	<18	<54	N/A	<205	75K	N/A
3	Pedistol Floor	<18	<54	N/A	<205	55K	N/A
4	Pedistol Floor	<18	<54	N/A	<205	355K	N/A
5	Pit Floor	<18	<54	N/A	<205	625K	N/A
6	Pit Floor	<18	<54	N/A	<205	310K	N/A
7	Pit Floor	<18	<54	N/A	<205	315K	N/A
8	Pit Floor	<18	<54	N/A	<205	160K	N/A
9	Pit Floor	<18	<54	N/A	<205	315K	N/A
10	Pit Floor	<18	<54	N/A	<205	40K	N/A
11	Pit Floor	<18	<54	N/A	<205	155K	N/A
12	Pit Floor	<18	<54	N/A	<205	<474	N/A
13	Pit Floor	<18	<54	N/A	<205	<474	N/A
14	Pit Floor	<18	<54	N/A	<205	70K	N/A
15	Pit Floor	<18	<54	N/A	<205	<474	N/A
16	Pedistol Wall	<18	<54	N/A	<205	20K	N/A
17	Pit Wall	<18	<54	N/A	<205	300K	N/A
18	Pit Wall	<18	<54	N/A	<205	55K	N/A
19	Pedistol Wall	<18	<54	N/A	<205	80K	N/A
20	Pit Wall	<18	<54	N/A	<205	75K	N/A

Date Reviewed: 1/22/05 **RS Supervisi** [redacted]

97

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Pit Wall	<20	<54	N/A	<205	<474	N/A
22	Pit Wall	<20	<54	N/A	<205	<474	N/A
23	Pit Wall	<20	<54	N/A	<205	<474	N/A
24	Pit Wall	<20	<54	N/A	<205	<474	N/A
25	Pit Wall	<20	<54	N/A	<205	2K	N/A
26	Pit Wall	<20	<54	N/A	<205	1K	N/A
27	Pit Wall	<20	<54	N/A	<205	<474	N/A
28	Pit Wall	<20	<54	N/A	<205	<474	N/A
29	Pedistol Wall	<20	<54	N/A	<205	655K	N/A
30	Pit Wall	<20	<54	N/A	<205	400K	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

983-04-51311

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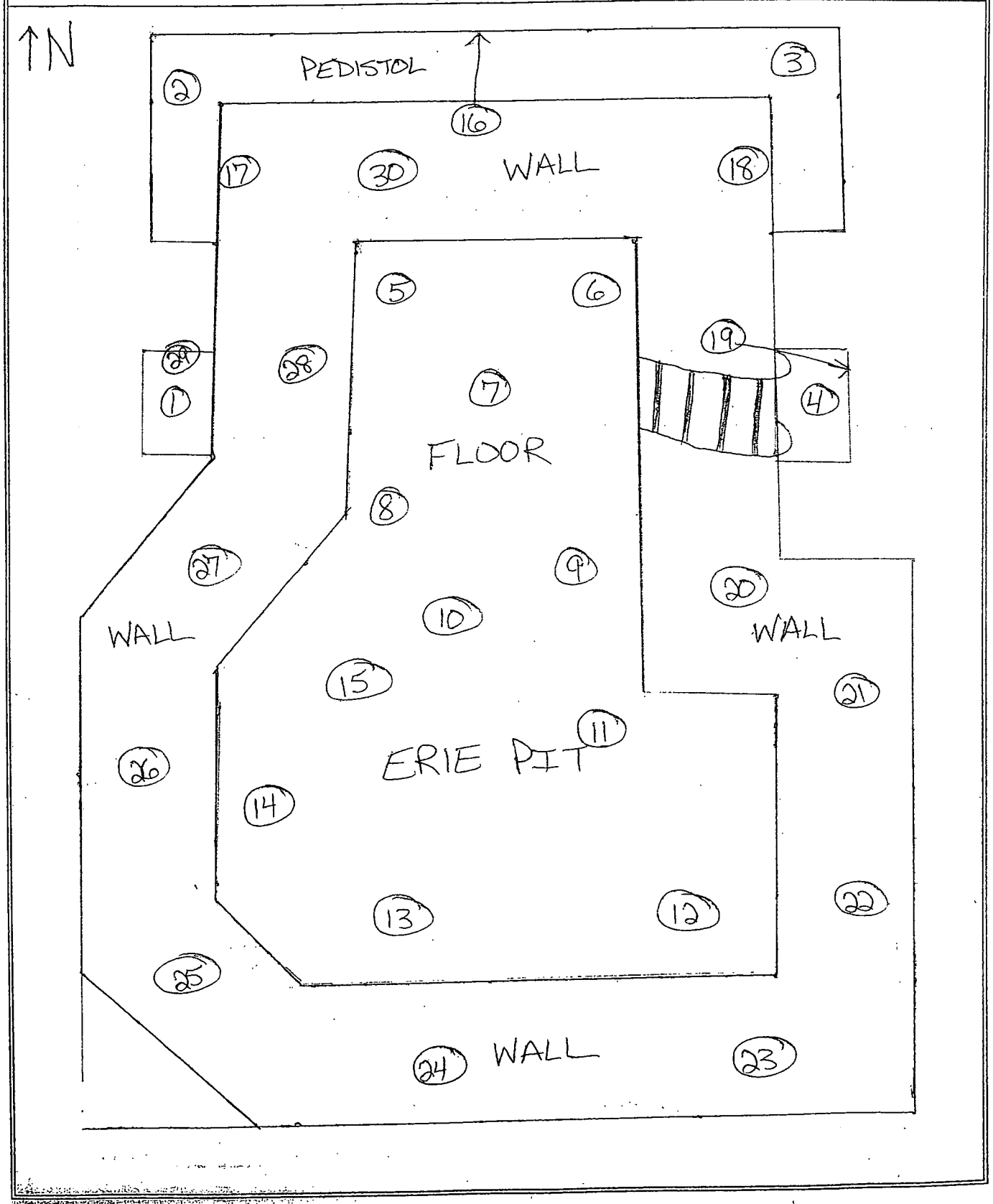
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143883	Serial #	N/A	Serial #	2373
Cal Due	7/13/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	36.00 %	Efficiency	33.00 %	Efficiency	22.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	64 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143883	Serial #	N/A	Serial #	2373
Cal Due	7/13/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	85.3 cpmβ	Bkg	N/A cpmβ	Bkg	621.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	183 dpmβ	MDA	200 dpmβ	MDA	539 dpmβ

Survey Tracking # 883-04-S1281
Survey Type: Contamination
Building: 883
Location: A Side Salt Bath Pits
Purpose: Post Paint

RWP #: 05-883-0001

Date: 1/16/05 Time: 1330

[redacted]

RCT: NA / NA / NA
Print name / Signature / Emp. #

PRN/REN # : N/A
Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed as post paint evaluation.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Wall	<18	N/A	N/A	<183	78.5K	N/A
2	Wall	<18	N/A	N/A	<183	86.5K	N/A
3	Wall	<18	N/A	N/A	<183	72K	N/A
4	Wall	<18	N/A	N/A	<183	301.5K	N/A
5	Floor	<18	N/A	N/A	<183	760K	N/A
6	Wall	<18	N/A	N/A	<183	105K	N/A
7	Wall	<18	N/A	N/A	<183	504.5K	N/A
8	Wall	<18	N/A	N/A	<183	470K	N/A
9	Wall	<18	N/A	N/A	<183	201K	N/A
10	Floor	<18	N/A	N/A	<183	475K	N/A
11	Wall	<18	N/A	N/A	<183	220K	N/A
12	Wall	<18	N/A	N/A	<183	245K	N/A
13	Wall	<18	N/A	N/A	<183	245K	N/A
14	Wall	<18	N/A	N/A	<183	99K	N/A
15	Wall	<18	N/A	N/A	<183	213K	N/A
16	Wall	<18	N/A	N/A	<183	32.8K	N/A
17	Wall	<18	N/A	N/A	<183	12K	N/A
18	Wall	<18	N/A	N/A	<183	50K	N/A
19	Floor	<18	N/A	N/A	<183	500K	N/A
20	Floor	<18	N/A	N/A	<183	301.5k	N/A

Date Reviewed: 1/18/05 **RS Supervision:** [redacted]

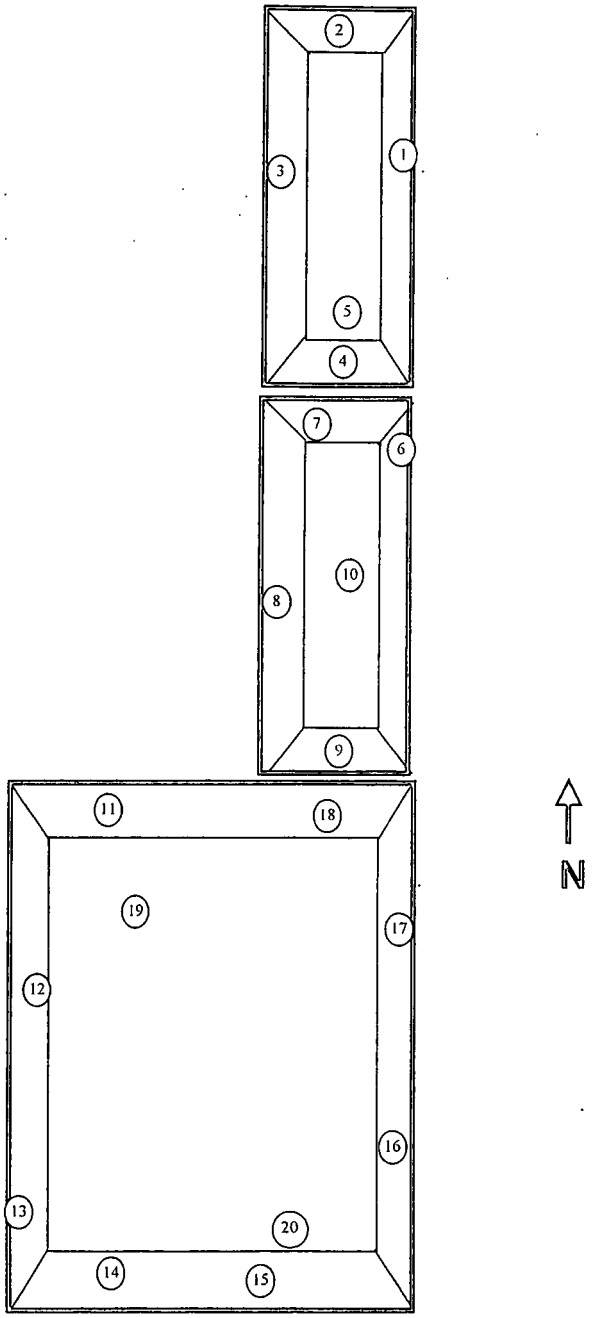
COPY

100

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

Survey # 883-04-1281



A SIDE SALT BATH PITS

COPY

101

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Eberline	Mfg.	NE Electra	Mfg.	NE Electra
Model	SAC-4	Model	DP-6	Model	DP-6
Serial #	961	Serial #	N/A	Serial #	N/A
Cal Due	4/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	33.00 %	Efficiency	N/A %	Efficiency	N/A %
MDA	20 dpmα	MDA	N/A dpmα	MDA	N/A dpmα
Mfg.	Eberline	Mfg.	NE Electra	Mfg.	NE Electra
Model	BC-4	Model	DP-6	Model	N/A
Serial #	928	Serial #	N/A	Serial #	N/A
Cal Due	10/22/05	Cal Due	N/A	Cal Due	N/A
Bkg	46.4 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	14.00 %	Efficiency	N/A %	Efficiency	N/A %
MDA	258 dpmβ	MDA	N/A dpmβ	MDA	N/A dpmβ

Survey Tracking # 883-04-S1275
Survey Type: Contamination
Building: 883 - Room 105
Location: HPM - Equipment and Pit
Purpose: Post fixative application

RWP #: 05-880-001
Date: 1/16/05 Time: 13:00

[redacted]

RCT: N/A / N/A / N/A
Print name Signature Emp. #

COPY

PRN/REN #: N/A
Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Pit Floor - See map for location.	<20	NA	N/A	<258	N/A	N/A
2	Pit Floor - See map for location.	<20	NA	N/A	<258	N/A	N/A
3	Vertical wall- See map for location.	<20	NA	N/A	<258	N/A	N/A
4	Pit Floor - See map for location.	<20	NA	N/A	<258	N/A	N/A
5	Vertical wall- See map for location.	<20	NA	N/A	<258	N/A	N/A
6	Vertical wall- See map for location.	<20	NA	N/A	<258	N/A	N/A
7	Pit Floor - See map for location.	<20	NA	N/A	<258	N/A	N/A
8	Vertical wall- See map for location.	<20	NA	N/A	<258	N/A	N/A
9	Pit Floor - See map for location.	<20	NA	N/A	<258	N/A	N/A
10	Pit Floor - See map for location.	<20	NA	N/A	<258	N/A	N/A
11	Pit Floor - See map for location.	<20	NA	N/A	<258	N/A	N/A
12	Inside Pit Sump	<20	NA	N/A	336	N/A	N/A
13	Pit Floor - See map for location.	<20	NA	N/A	<258	N/A	N/A
14	Ladder to Pit	<20	NA	N/A	<258	N/A	N/A
15	Machine Block - South Side - Floor level	<20	NA	N/A	<258	N/A	N/A
16	Machine Block - South Side - support plate	<20	NA	N/A	<258	N/A	N/A
17	Machine Block - West Side - Floor level	<20	NA	N/A	<258	N/A	N/A
18	Machine Block - Center Area	<20	NA	N/A	<258	N/A	N/A
19	Machine Block - Northwest corner	<20	NA	N/A	<258	N/A	N/A
20	Machine Block - North Side	<20	NA	N/A	<258	N/A	N/A
21	Machine Block - North Side	<20	NA	N/A	<258	N/A	N/A
22	Machine Block - Northeast Corner	<20	NA	N/A	<258	N/A	N/A
23	Machine Block - East Side near Corner	<20	NA	N/A	<258	N/A	N/A
24	Machine Block - East Side	<20	NA	N/A	<258	N/A	N/A
25	Machine Block -Southeast support plate	<20	NA	N/A	<258	N/A	N/A

Date Reviewed: 1/16/05 **RS Supervision:** [redacted]

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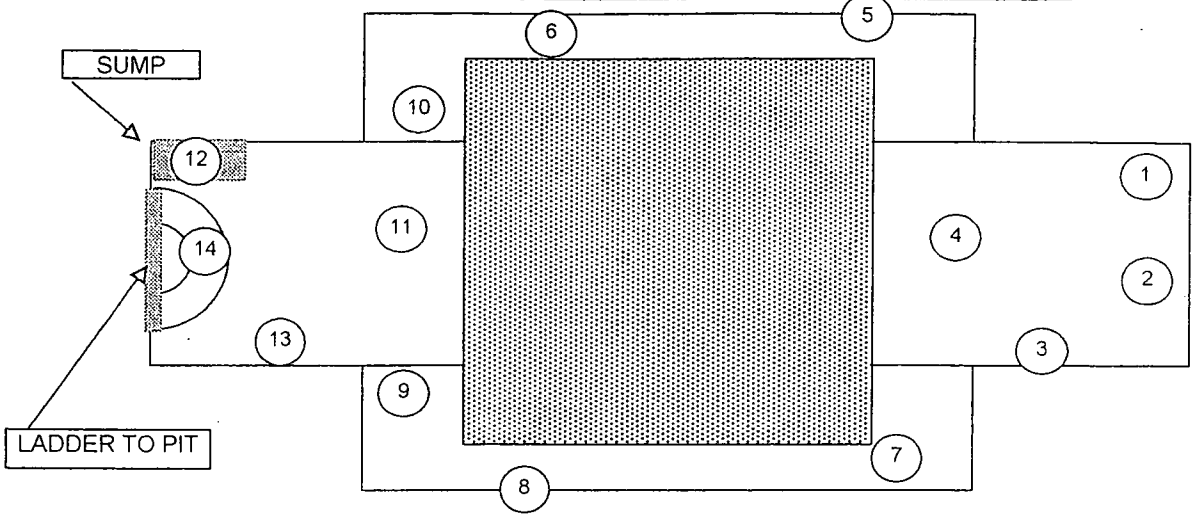
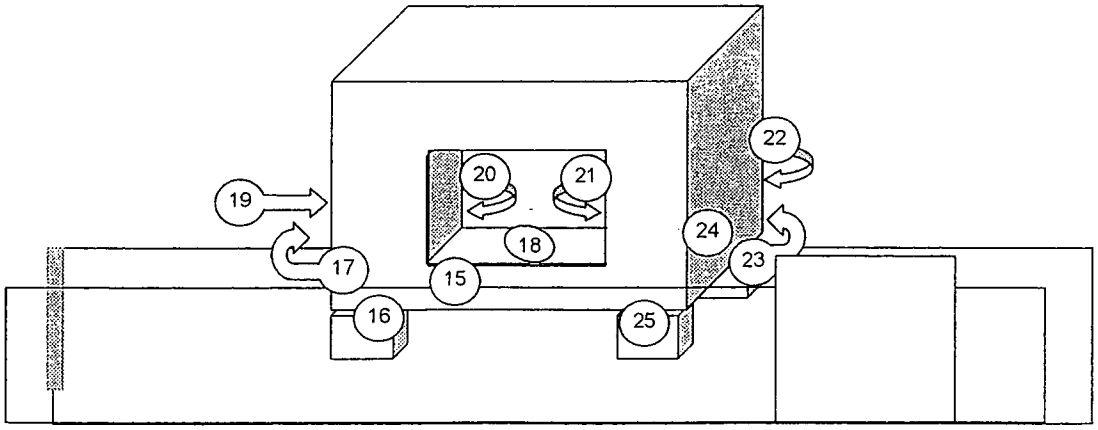
HPM SURVEY





Survey 883-04-1275

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	SAC-4	Model	N/A
Serial #	176102	Serial #	961	Serial #	N/A
Cal Due	3/14/05	Cal Due	4/14/05	Cal Due	N/A
Bkg	0.6 cpmα	Bkg	0.3 cpmα	Bkg	N/A cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	N/A %
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	BC-4	Model	N/A
Serial #	176102	Serial #	928	Serial #	N/A
Cal Due	3/14/05	Cal Due	10/22/05	Cal Due	N/A
Bkg	71.4 cpmβ	Bkg	42.6 cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	N/A %
MDA	177 dpmβ	MDA	258 dpmβ	MDA	N/A dpmβ

Survey Tracking # 883-04-S1279
Survey Type: Contamination
Building: 883
Location: A Side USI PIT
Purpose: Post application of fixative

RWP #: 05-880-0001

Date: 1/17/05 Time: 16:30

[redacted]

RCT: NA / NA / NA
Print name / Signature / Emp. #

PRN/REN # : N/A
Comments: Nuclide of concern is from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Wall	<20	N/A	N/A	<258	N/A	N/A
2	Wall	<20	N/A	N/A	<258	N/A	N/A
3	Wall	<20	N/A	N/A	<258	N/A	N/A
4	Wall	<20	N/A	N/A	<258	N/A	N/A
5	Wall	<20	N/A	N/A	<258	N/A	N/A
6	Wall	<20	N/A	N/A	<258	N/A	N/A
7	Wall	<20	N/A	N/A	<258	N/A	N/A
8	Wall	<20	N/A	N/A	<258	N/A	N/A
9	Wall	<20	N/A	N/A	<258	N/A	N/A
10	Wall	<20	N/A	N/A	<258	N/A	N/A
11	Wall	<20	N/A	N/A	<258	N/A	N/A
12	Wall	<20	N/A	N/A	<258	N/A	N/A
13	Wall	<20	N/A	N/A	<258	N/A	N/A
14	Wall	<20	N/A	N/A	<258	N/A	N/A
15	Wall	<20	N/A	N/A	<258	N/A	N/A
16	Wall	<20	N/A	N/A	<258	N/A	N/A
17	Wall	<20	N/A	N/A	<258	N/A	N/A
18	Wall	<20	N/A	N/A	<258	N/A	N/A
19	Wall	<20	N/A	N/A	<258	N/A	N/A
20	Wall	[redacted]					

Date Reviewed: 1/18/05 **RS Supervision:** [redacted]

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SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Wall	<20	N/A	N/A	<258	N/A	N/A
22	Wall	<20	N/A	N/A	<258	N/A	N/A
23	Wall	<20	N/A	N/A	<258	N/A	N/A
24	Wall	<20	N/A	N/A	<258	N/A	N/A
25	Wall	<20	N/A	N/A	<258	N/A	N/A
26	Wall	<20	N/A	N/A	<258	N/A	N/A
27	Wall	<20	N/A	N/A	<258	N/A	N/A
28	Wall	<20	N/A	N/A	<258	N/A	N/A
29	Wall	<20	N/A	N/A	<258	N/A	N/A
30	Wall	<20	N/A	N/A	<258	N/A	N/A
31	Wall	<20	N/A	N/A	<258	N/A	N/A
32	Wall	<20	N/A	N/A	<258	N/A	N/A
33	Wall	<20	N/A	N/A	<258	N/A	N/A
34	Wall	<20	N/A	N/A	<258	N/A	N/A
35	Wall	<20	N/A	N/A	<258	N/A	N/A
36	Wall	<20	N/A	N/A	<258	N/A	N/A
37	Floor	<20	N/A	N/A	<258	N/A	N/A
38	Floor	<20	N/A	N/A	<258	N/A	N/A
39	Floor	<20	N/A	N/A	<258	N/A	N/A
40	Floor	<20	N/A	N/A	<258	N/A	N/A
41	Floor	<20	N/A	N/A	<258	N/A	N/A
42	Floor	<20	N/A	N/A	<258	N/A	N/A
43	Floor	<20	N/A	N/A	<258	N/A	N/A
44	Floor	<20	N/A	N/A	<258	N/A	N/A
45	Floor	<20	N/A	N/A	<258	N/A	N/A
46	Floor	<20	N/A	N/A	<258	N/A	N/A
47	Floor	<20	N/A	N/A	<258	N/A	N/A
48	Floor	<20	N/A	N/A	<258	N/A	N/A
49	Pit/Sump	<20	N/A	N/A	<258	N/A	N/A
50	Top of Pedestal	<20	N/A	N/A	<258	N/A	N/A
51	Top of Pedestal	<20	N/A	N/A	<258	N/A	N/A
52	Top of Pedestal	<20	N/A	N/A	<258	N/A	N/A
53	Top of Pedestal	<20	N/A	N/A	<258	N/A	N/A
54	Top of Pedestal	<20	N/A	N/A	<258	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-51279

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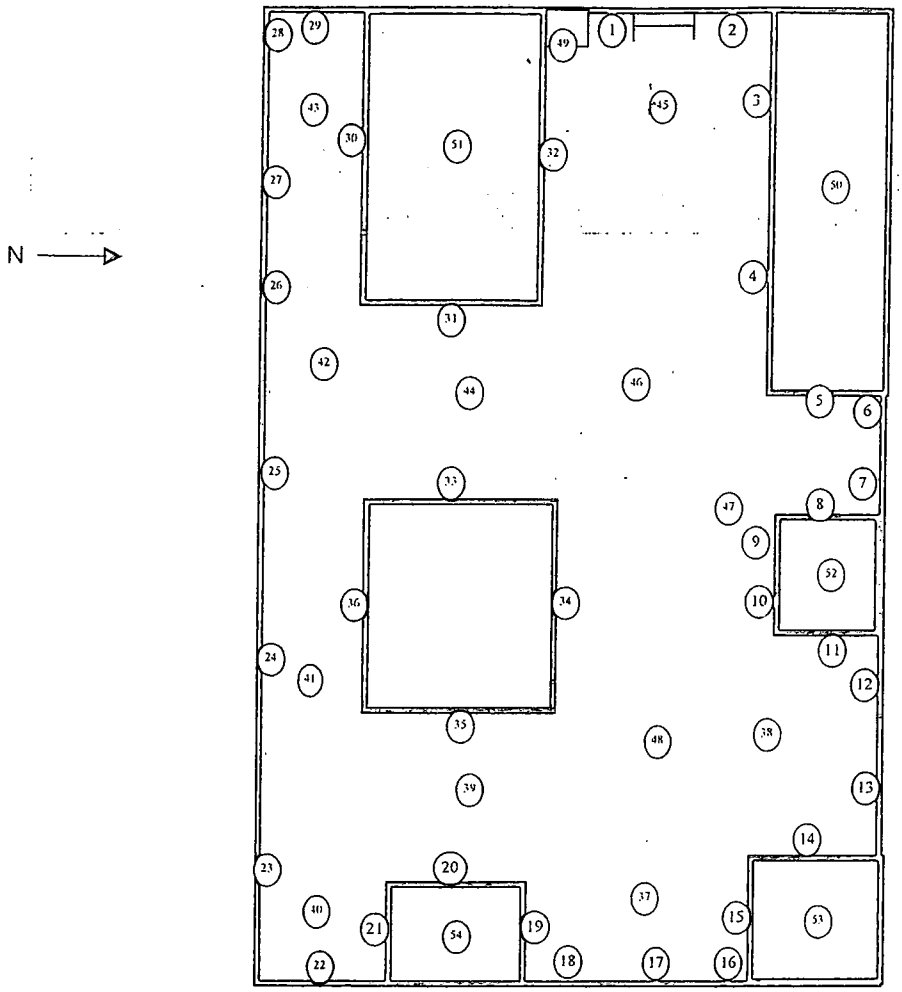
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



A SIDE 883 USI PRESS PIT

883-04-51249

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ATTACHMENT B-2

B-Side LLW Surveys

PRE-FIXATIVE LLW SURVEYS

Building 883 B-Side
Salt Bath, Loewy and HPM
Contamination Data Summary

PRE-FIXATIVE

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	883, B-Side Salt Bath Pit Wall	1,148	113,000
2	883, B-Side Salt Bath Pit Wall	1,028	18,000
3	883, B-Side Salt Bath Pit Wall	788	27,000
4	883, B-Side Salt Bath Pit Wall	688	33,000
5	883, B-Side Salt Bath Pit Wall	1,956	32,000
6	883, B-Side Salt Bath Pit Wall	1,204	16,000
7	883, B-Side Salt Bath Pit Wall	1,544	16,000
8	883, B-Side Salt Bath Pit Wall	1,296	15,000
9	883, B-Side Salt Bath Pit Floor	1,292	27,000
10	883, B-Side Salt Bath Pit Floor	1,260	24,000
11	883, B-Side Salt Bath Pit Floor	844	43,000
12	883, B-Side Salt Bath Pit Floor	1,684	39,000
13	883, B-Side Salt Bath Pit Floor	720	161,000
14	883, B-Side Salt Bath Pit Floor	1,568	140,000
15	883, B-Side Salt Bath Pit Floor	1,320	406,000
16	883, B-Side Salt Bath Pit Floor	2,940	260,000
17	883, B-Side Salt Bath Pit Floor	960	708,000
18	883, B-Side Salt Bath Pit Floor [Residue]	18,100	15,000
19	883, Rm 112 Loewy North Base	32,655	545,455
20	883, Rm 112 Loewy West Post	6,129	1,390,909
21	883, Rm 112 Loewy Inner Bed	86,207	2,309,091
22	883, Rm 112 Loewy SW Post	51,006	931,818
23	883, Rm 112 Loewy East Base	86,207	817,273
24	883, Rm 112 Loewy Lower Base	13,977	4,095,455
25	883, Room 112 Shallow Pit, East of Loewy	698	5,109
26	883, Rm 112 Shallow Pit West of Loewy	1,089	663,636
27	883, Rm 112, Shallow West Pit Wall	371	84,091
28	883, Rm 112, Loewy Pit South Rail	5,397	383,182
29	883, Rm 112, Loewy Pit South Floor	7,937	47,273
30	883, Rm 112, Shallow Pit SE Wall	537	312,727
31	883, Rm 112, Loewy Pit SE Floor	13,164	116,364
32	883, Rm 112, Loewy Pit SW Floor	5,422	6,109,091
33	883, Rm 112, Loewy Roller Table Slab	7,247	3,040,909
34	883, Rm 112, Loewy Roller Table Slab	4,672	3,027,273
35	883, Rm 112, Loewy Roller Table Slab	2,599	3,745,455
36	883, Rm 112, Loewy Roller Table Slab	4,618	4,218,182
37	883, Rm 112, Loewy Roller Table Slab	10,115	3,109,091
38	883, Rm 112, Loewy Roller Table Slab	19,598	6,586,364

Building 883 B-Side
Salt Bath, Loewy and HPM
Contamination Data Summary

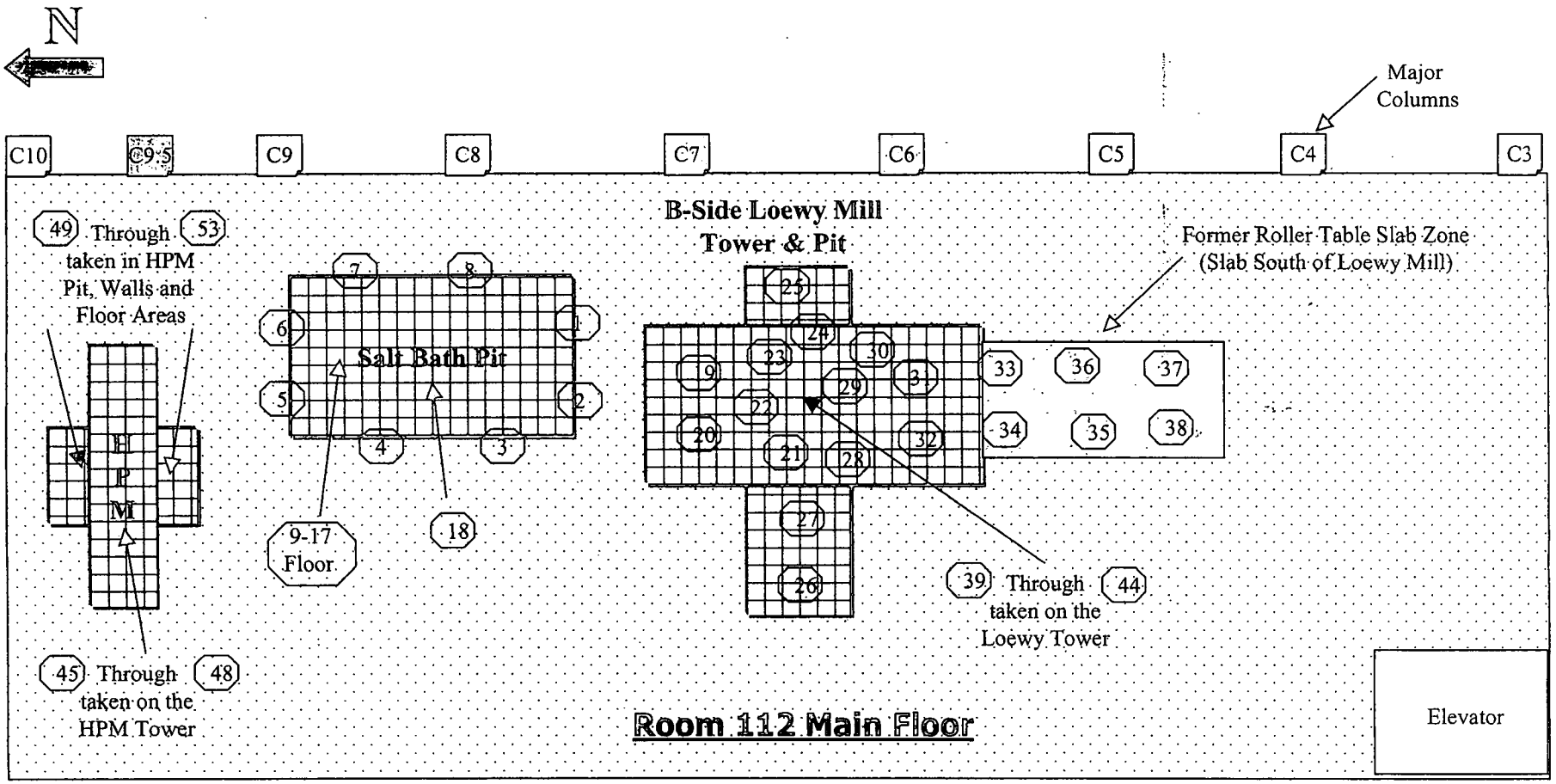
Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
39	883, Rm 112, Loewy Upper Tower	1,554	340,909
40	883, Rm 112, Loewy Upper Tower	462	54,545
41	883, Rm 112, Loewy Upper Tower	2,051	150,000
42	883, Rm 112, Loewy Upper Tower	615	13,636
43	883, Rm 112, Loewy Upper Tower	667	4,545
44	883, Rm 112, Loewy Upper Tower	769	11,364
45	HPM Press Upper Tower	1,538	136,364
46	HPM Press Upper Tower	5,128	159,091
47	HPM Press Upper Tower	1,026	68,182
48	HPM Press Upper Tower	2,000	5,000
49	HPM Pit Walls	824	11,555
50	HPM Pit Walls	572	4,055
51	HPM Pit Walls	1,652	19,055
52	HPM Pit Walls	584	13,305
53	HPM Pit Floor	25,000	150,000

Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	86,207	6,586,364
Mean (Average)	8,385	844,780
n	53	53
Standard Deviation	18,057	1,583,403

RE Comments	
G. M. Aldrich, X7175	The highest remaining removable and fixed contamination were seen in the Loewy lower base, Loewy pit, and Roller Table Slab zones. Refer to the attached map for approximate survey locations.

Bldg. 883 B-Side/G5 - Post Pressure Wash

Salt Bath, Loewy Mill and HPM Press Pits & Equipment



Swipe and direct survey taken at approximate sampling locations shown.
See attached Contamination Summary Data Sheet for levels.

Readings were biased towards areas and components expected to have the highest contamination in pits, equipment, etc.

Building 883 B-Side
Floor and Wall Contamination Data Summary

Pre - Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	883, Rm 112 East Wall [Block]	697	2,000
2	883, Rm 112 East Wall [Beam]	316	5,155
3	883, Rm 112 East Wall [Block]	1,373	3,000
4	883, Rm 112 East Wall [Beam]	304	12,205
5	883, Rm 112 East Wall [Block]	664	3,000
6	883, Rm 112 East Wall [Beam]	264	3,615
7	883, Rm 112 East Wall [Block]	657	2,000
8	883, Rm 112 East Wall [Beam]	784	15,865
9	883, Rm 112 East Wall [Block]	258	745
10	883, Rm 112 East Wall [Block]	297	2,500
11	883, Rm 112 East Wall [Block]	258	745
12	883, Rm 112 East Wall [Block]	258	745
13	883, Rm 112 East Wall [Block]	258	1,500
14	883, Rm 112 East Wall [Block]	258	745
15	883, Rm 112 East Wall [Beam]	348	61,715
16	883, Rm 112 South Wall [Block]	258	1,500
17	883, Rm 112 South Wall [Block]	258	7,500
18	883, Rm 112 South Wall [Block]	258	7,200
19	883, Rm 112 South Wall [Block]	258	2,500
20	883, Rm 112 South Wall [Beam]	258	7,000
21	883, Rm 112 South Wall [Block]	258	2,000
22	883, Rm 112 South Wall [Beam]	258	7,500
23	883, Rm 112 South Wall [Block]	258	7,000
24	883, Rm 112 South Wall [Block]	258	1,500
25	883, Room 112 Elevator Wall	258	5,000
26	883, Rm 112 South Wall [Block]	258	6,000
27	883, Rm 112, West Wall [Beam]	258	1,395
28	883, Rm 112, West Wall [Transite]	258	9,225
29	883, Rm 112, West Wall [Beam]	258	3,160
30	883, Rm 112, West Wall [Transite]	258	2,000
31	883, Rm 112, West Wall [Transite]	258	910
32	883, Rm 112, West Wall [Transite]	258	1,495
33	883, Rm 112, West Wall [Transite]	258	1,500
34	883, Rm 112, West Wall [Beam]	258	4,500
35	883, Rm 112, West Wall [Transite]	258	2,145
36	883, Rm 112, West Wall [Transite]	258	2,000
37	883, Rm 112, West Wall [Transite]	258	4,500
38	883, Rm 112, West Wall [Beam]	258	5,000
39	883, Rm 112, West Wall [Transite]	258	2,500
40	883, Rm 112, West Wall [Transite]	258	2,500
41	883, Rm 112, West Wall [Beam]	258	3,500
42	883, Rm 112, West Wall [Transite]	258	4,000

112

Building 883 B-Side
Floor and Wall Contamination Data Summary

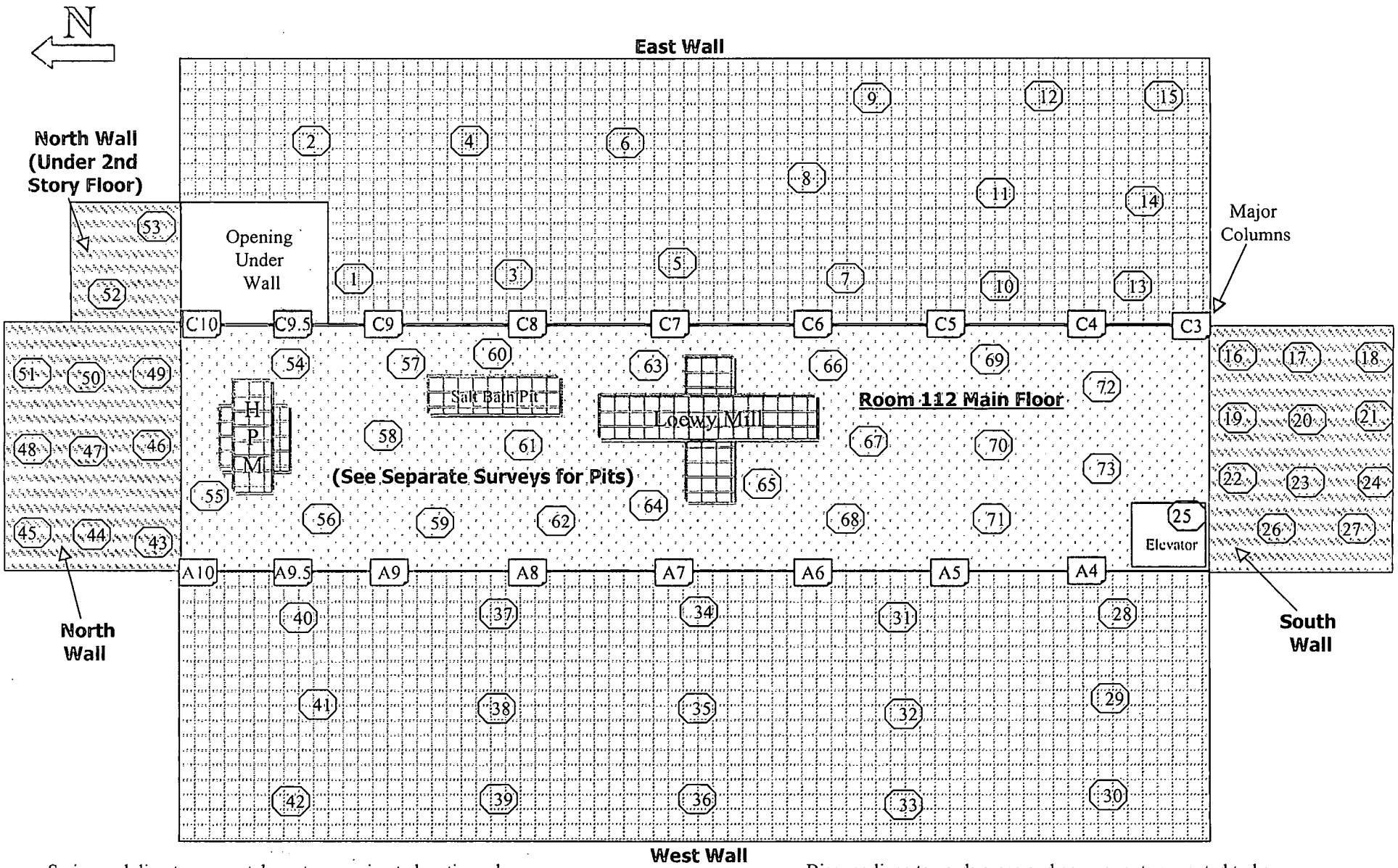
Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
43	883, Rm 112, North Wall [Concrete/Block]	833	9,091
44	883, Rm 112, North Wall [Beam]	1,109	18,182
45	883, Rm 112, North Wall [Concrete/Block]	425	13,636
46	883, Rm 112, North Wall [Concrete/Block]	517	13,636
47	883, Rm 112, North Wall [Beam]	1,649	22,727
48	883, Rm 112, North Wall [Concrete/Block]	560	1,818
49	883, Rm 112, North Wall [Concrete/Block]	425	3,636
50	883, Rm 112, North Wall [Concrete/Block]	560	1,818
51	883, Rm 112, North Wall [Concrete/Block]	618	909
52	883, Rm 112, North Wall [Beam]	1,109	3,636
53	883, Rm 112, North Wall [Concrete/Block]	1,006	5,455
54	883, Rm 112 General Area Floor	311	40,000
55	883, Rm 112 General Area Floor	302	25,000
56	883, Rm 112 General Area Floor	*258*	20,000
57	883, Rm 112 General Area Floor	1,975	310,000
58	883, Rm 112 General Area Floor	846	270,000
59	883, Rm 112 General Area Floor	1,380	42,000
60	883, Rm 112 General Area Floor	1,639	405,000
61	883, Rm 112 General Area Floor	1,222	150,000
62	883, Rm 112 General Area Floor	1,046	410,000
63	883, Rm 112 General Area Floor	382	42,000
64	883, Rm 112 General Area Floor	1,032	82,000
65	883, Rm 112 General Area Floor	*258*	25,000
66	883, Rm 112 General Area Floor	*258*	68,000
67	883, Rm 112 General Area Floor	342	30,000
68	883, Rm 112 General Area Floor	*258*	37,500
69	883, Rm 112 General Area Floor	346	54,000
70	883, Rm 112 General Area Floor	1,408	270,000
71	883, Rm 112 General Area Floor	*258*	390,000
72	883, Rm 112 General Area Floor	438	420,000
73	883, Rm 112 General Area Floor	*258*	10,000

Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	1,975	420,000
Mean (Average)	507	46,789
n	73	73
Standard Deviation	412	105,071

RE Comments	
G. M. Aldrich, X7175	All < MDA readings (removable or fixed contamination) are italicised. Refer to the attached map for approximate survey locations and item surveyed. Representative surveys of walls, floors, transite, block and beams were performed in general areas and surfaces of Room 112.

Bldg. 883 B-Side/G5

Post Pressure Wash Wall & Floor Characterization



Swipe and direct surveys taken at approximate locations shown.
See attached Contamination Data Summary sheets for levels.

Bias readings towards areas and components expected to have the highest fixed contamination (horizontal surfaces, etc.)

Building 883 B-Side Overhead Areas
Contamination Data Summary

Pre-Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	883, Rm 112 Overhead Roof Panel	188	33,450
2	883, Rm 112 Overhead Beam	236	1,355
3	883, Rm 112 Overhead Roof Panel	852	2,390
4	883, Rm 112 Overhead Fire Sprinkler Line	776	3,500
5	883, Rm 112 Overhead Roof Panel	410	560
6	883, Rm 112 Overhead Beam	1,436	8,150
7	883, Rm 112 Overhead Beam	6,688	6,525
8	883, Rm 112 Overhead Fire Sprinkler Line	596	650
9	883, Rm 112 Overhead Inside Duct	172	560
10	883, Rm 112 Overhead Beam	996	9,555
11	883, Rm 112 Overhead Roof Panel	788	4,710
12	883, Rm 112 Overhead Beam	568	5,150
13	883, Rm 112 Overhead Roof Panel	852	560
14	883, Rm 112 Overhead Roof Panel	416	2,150
15	883, Rm 112 Overhead Inside Duct	3,276	6,625
16	883, Rm 112 Overhead Beam	3,940	14,180
17	883, Rm 112 Overhead Top of Duct	7,788	13,150
18	883, Rm 112 Overhead Beam	5,724	6,650
19	883, Rm 112 Overhead Beam	2,988	23,135
20	883, Rm 112 Overhead Fire Sprinkler Line	380	560
21	883, Rm 112 Roof Panel	556	1,650
22	883, Rm 112 Overhead Top of Duct	996	7,150
23	883, Rm 112 Overhead Beam	1,232	12,750
24	883, Rm 112 Overhead Inside Duct	424	5,420
25	883, Rm 112 Overhead Beam	2,540	7,150
26	883, Rm 112 Overhead Beam	4,372	9,150
27	883, Rm 112 Overhead Fire Sprinkler Line	1,212	560
28	883, Rm 112 Overhead Top of Duct	110	7,900
29	883, Rm 112 Overhead Inside Duct	536	2,425
30	883, Rm 112 Overhead Beam	2,472	8,615
31	883, Rm 112 Overhead Beam	616	5,650
32	883, Rm 112 Overhead Roof Panel	512	2,650
33	883, Rm 112 Overhead Beam	156	5,150
34	883, Rm 112 Overhead Inside Duct	316	1,995
35	883, Rm 112 Overhead Fire Sprinkler Line	720	560
36	883, Rm 112 Overhead Beam	1,384	8,150
37	883, Rm 112 Overhead Top of Duct	564	3,450
38	883, Rm 112 Overhead Roof Panel	852	2,390

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Building 883 B-Side Overhead Areas
Contamination Data Summary

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
39	883, Rm 112 Overhead Beam	6,688	6,525
40	883, Rm 112 Overhead Beam	196	3,150
41	883, Rm 112 Overhead Roof Panel	268	2,150
42	883, Rm 112 Overhead Inside Duct	176	2,150
43	883, Rm 112 Overhead Top of Duct	216	2,650
44	883, Rm 112 Overhead Beam	1,172	7,150
45	883, Rm 112 Overhead Roof Panel	508	560
	No further entries		

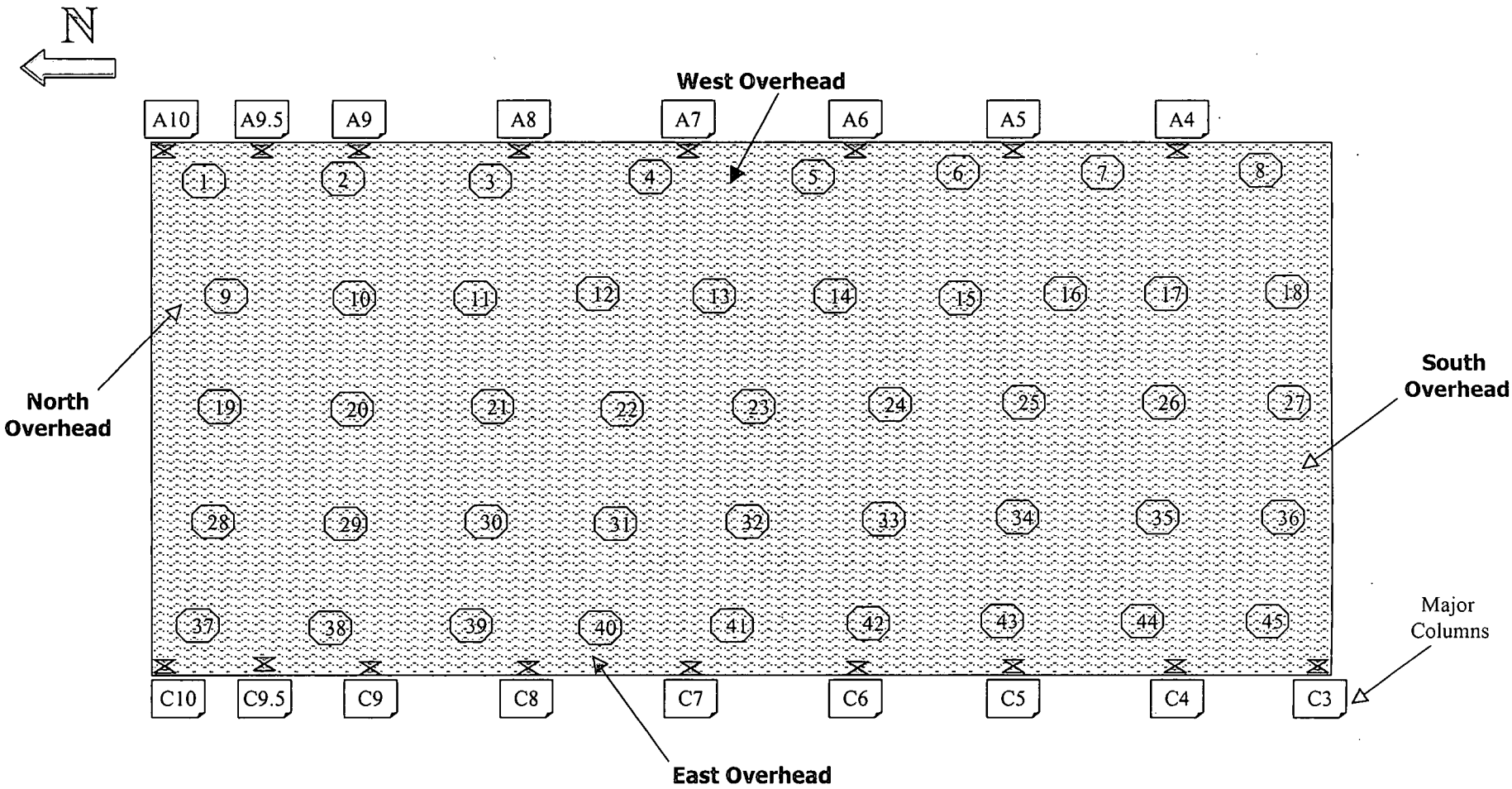
Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	7,788	33,450
Mean (Average)	1,508	5,793
n	45	45
Standard Deviation	1,938	6,177

RE Comments	
G. M. Aldrich, X7175	Readings in the B-Side overhead were broadly representative of beams, ducts, sprinker piping, and roof panels in the overhead areas. These were taken after pressure washing decontamination activity, and before fixative application.

Bldg. 883 B-Side/G5

Post Pressure Wash Overhead Characterization Map

(Room 112 Overhead, Viewed as Looking Up)



Swipe and direct surveys taken at approximate sampling locations shown. See attached Contamination Data Summary sheets for activity levels seen and components surveyed.

Bias readings towards areas and components expected to have the highest fixed contamination. Overhead readings included ceiling beams, piping, and supply ducts (inside and outside surfaces).

883 B-SIDE OVERHEAD & DUCTS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

COPY

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	NE Electra	Mfg.	NE Electra
Model	2929	Model	DP-6	Model	DP-6
Serial #	143866	Serial #	3142	Serial #	1421
Cal Due	2/16/05	Cal Due	4/18/05	Cal Due	12/25/04
Bkg	0.4 cpmα	Bkg	4.0 cpmα	Bkg	4.0 cpmα
Efficiency	34.80 %	Efficiency	21.80 %	Efficiency	21.80 %
MDA	18 dpmα	MDA	55 dpmα	MDA	55 dpmα
Mfg.	Ludlum	Mfg.	NE Electra	Mfg.	NE Electra
Model	2929	Model	DP-6	Model	DP-6
Serial #	143866	Serial #	3142	Serial #	1421
Cal Due	2/16/05	Cal Due	4/18/05	Cal Due	12/25/04
Bkg	75.5 cpmβ	Bkg	671.0 cpmβ	Bkg	744.0 cpmβ
Efficiency	25.00 %	Efficiency	22.00 %	Efficiency	22.00 %
MDA	172 dpmβ	MDA	560 dpmβ	MDA	589 dpmβ

Survey Tracking # 883-04-S1104
Survey Type: Contamination
Building: 883
Location: B-Side Ceiling & Ducts
Purpose: Post decon Pre Fixative
RWP #: 04-880-0002
Date: 12/7/04 Time: 20:00

[redacted]

PRN/REN # : N/A
Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	See Map	18	394	N/A	188	33450	N/A
2	See Map	210	6190	N/A	236	1355	N/A
3	See Map	105	865	N/A	852	2390	N/A
4	See Map	141	450	N/A	776	3500	N/A
5	See Map	21	185	N/A	410	<560	N/A
6	See Map	174	1390	N/A	1436	8150	N/A
7	See Map	399	2100	N/A	6688	6525	N/A
8	See Map	48	350	N/A	596	650	N/A
9	See Map	<18	132.5	N/A	<172	<560	N/A
10	See Map	117	2865	N/A	996	9555	N/A
11	See Map	84	1232	N/A	788	4710	N/A
12	See Map	66	1100	N/A	568	5150	N/A
13	See Map	102	164	N/A	852	<560	N/A
14	See Map	93	1140	N/A	416	2150	N/A
15	See Map	351	1180	N/A	3276	6625	N/A
16	See Map	516	7315	N/A	3940	14180	N/A
17	See Map	555	2200	N/A	7788	13150	N/A
18	See Map	267	1500	N/A	5724	6650	N/A
19	See Map	234	4540	N/A	2988	23135	N/A
20	See Map	45	330	N/A	380	<560	N/A

Date Reviewed: 12/7/04 **RS Supervision:** [redacted]

Print Name

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COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	See Map	75	1620	N/A	556	1650	N/A
22	See Map	327	2350	N/A	996	7150	N/A
23	See Map	90	3725	N/A	1232	12750	N/A
24	See Map	24	400	N/A	424	5420	N/A
25	See Map	297	1800	N/A	2540	7150	N/A
26	See Map	228	3900	N/A	4372	9150	N/A
27	See Map	57	660	N/A	1212	<560	N/A
28	See Map	114	930	N/A	1108	7900	N/A
29	See Map	54	1350	N/A	536	2425	N/A
30	See Map	180	1105	N/A	2472	8615	N/A
31	See Map	141	1025	N/A	616	5650	N/A
32	See Map	108	925	N/A	512	2650	N/A
33	See Map	18	550	N/A	156	5150	N/A
34	See Map	63	1015	N/A	316	1995	N/A
35	See Map	99	390	N/A	720	<560	N/A
36	See Map	171	2000	N/A	1384	8150	N/A
37	See Map	93	2100	N/A	564	3450	N/A
38	See Map	105	865	N/A	852	2390	N/A
39	See Map	399	2100	N/A	6688	6525	N/A
40	See Map	21	1200	N/A	196	3150	N/A
41	See Map	21	550	N/A	268	2150	N/A
42	See Map	24	650	N/A	176	2150	N/A
43	See Map	30	750	N/A	216	2650	N/A
44	See Map	147	1500	N/A	1172	7150	N/A
45	See Map	90	625	N/A	508	<560	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Survey Tracking # 883-4-S1104

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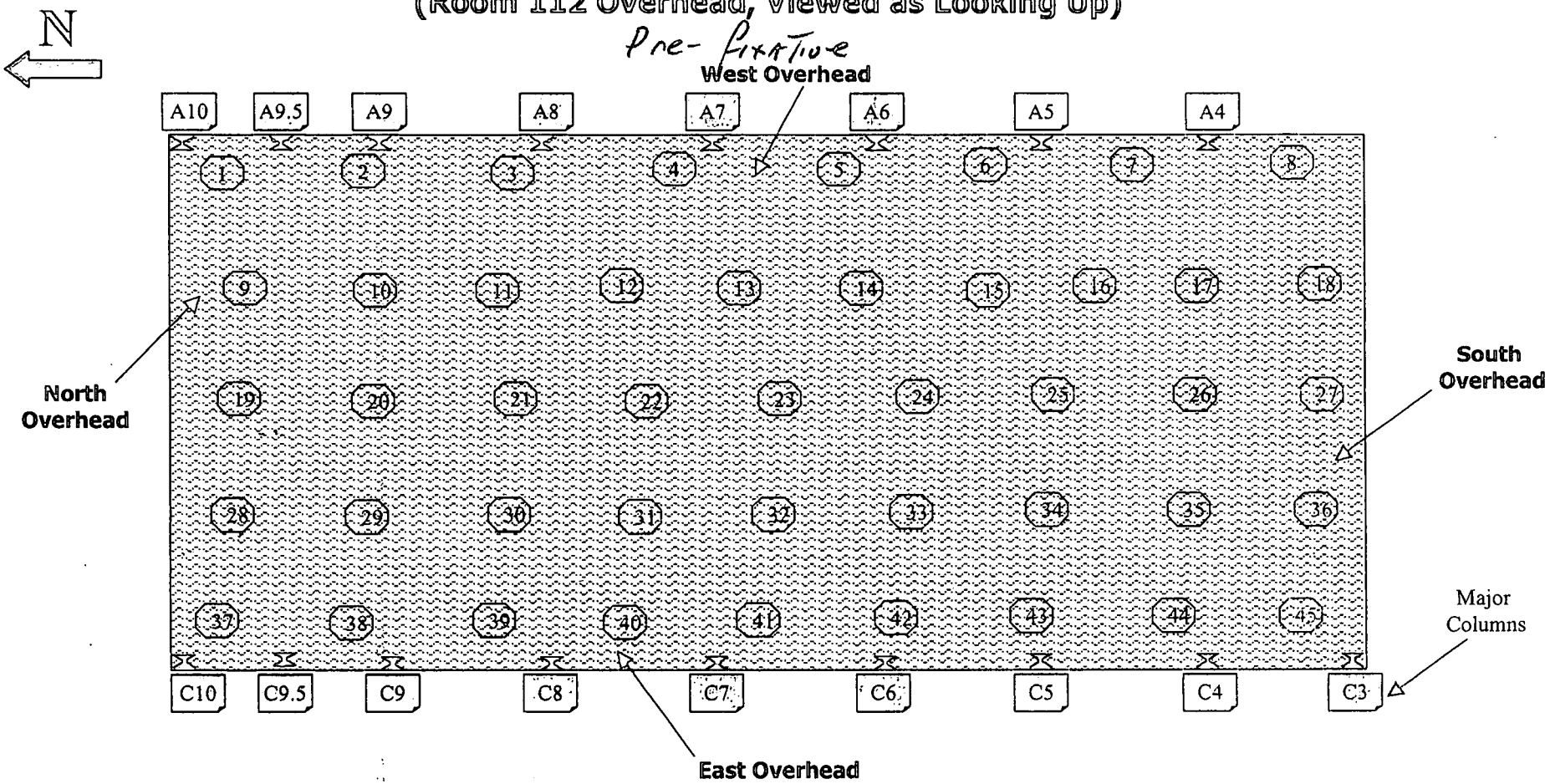
Bldg. 883 B-Side/G5

Post Pressure Wash Overhead Characterization Map

(Room 112 Overhead, Viewed as Looking Up)

Pre-fixture



Swipe and direct survey taken at approximate sampling locations shown. See attached Contamination Summary Data Sheet for levels.

Bias readings towards areas and components expected to have the highest fixed contamination. Overhead readings included both ceiling beams, piping, and supply ducts (inside and outside surfaces).

Survey Tracking # 883-04-S1104

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	SAC-4	Model	N/A
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.3 cpmα	Bkg	N/A cpmα	Bkg	N/A
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	N/A
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	BC-4	Model	N/A
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	81.6 cpmβ	Bkg	N/A cpmβ	Bkg	N/A
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A
MDA	178.86 dpmβ	MDA	200 dpmβ	MDA	N/A

Survey Tracking # 883-04-S1078

Survey Type: Contamination and Radiation

Building: 883

Location: 1st Floor, B-Side

Purpose: BE Samples (74 Samples) Pre-Lixative

RWP #: N/A

[redacted]

	Print name	Signature	Emp. #
RCT:	NA	NA	N/A

PRN/REN #: 040908-ASD-001

Comments: Nuclide of concern are Depleted Uranium with a correction factor used (74 each) "Be" Swipe samples. (drawing attached)

COPY

#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2	#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2
1	883-12052004-313-004	46	287	20	883-12052004-313-181	112	641
2	883-12052004-313-005	20	221	21	883-12052004-313-182	55	420
3	883-12052004-313-013	<18	242	22	883-12052004-313-183	471	1937
4	883-12052004-313-040	<18	379	23	883-12052004-313-184	101	491
5	883-12052004-313-042	<18	256	24	883-12052004-313-185	307	704
6	883-12052004-313-058	<18	359	25	883-12052004-313-186	224	799
7	883-12052004-313-0071	23	256	26	883-12052004-313-187	152	612
8	883-12052004-313-074	121	376	27	883-12052004-313-188	569	1828
9	883-12052004-313-170	32	322	28	883-12052004-313-189	135	698
10	883-12052004-313-171	20	227	29	883-12052004-313-190	46	443
11	883-12052004-313-172	<18	293	30	883-12052004-313-191	112	727
12	883-12052004-313-173	<18	230	31	883-12052004-313-192	<18	198
13	883-12052004-313-174	126	451	32	883-12052004-313-193	83	428
14	883-12052004-313-175	<18	259	33	883-12052004-313-194	147	954
15	883-12052004-313-176	20	302	34	883-12052004-313-195	118	724
16	883-12052004-313-177	20	250	35	883-12052004-313-196	52	425
17	883-12052004-313-178	80	468	36	883-12052004-313-197	52	345
18	883-12052004-313-179	29	313	37	883-12052004-313-198	207	388
19	883-12052004-313-180	112	457	38	883-12052004-313-199	60	374

Date Reviewed: 12/6/04 RS Supervision: [redacted]

Survey 883-04-S1078

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2	#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2
39	883-12052004-313-200	233	1224	78	N/A	N/A	N/A
40	883-12052004-313-201	<18	319	79	N/A	N/A	N/A
41	883-12052004-313-202	26	259	80	N/A	N/A	N/A
42	883-12052004-313-203	46	328	81	N/A	N/A	N/A
43	883-12052004-313-204	<18	190	82	N/A	N/A	N/A
44	883-12052004-313-205	<18	273	83	N/A	N/A	N/A
45	883-12052004-313-206	26	204	84	N/A	N/A	N/A
46	883-12052004-313-207	<18	264	85	N/A	N/A	N/A
47	883-12052004-313-208	<18	247	86	N/A	N/A	N/A
48	883-12052004-313-209	<18	290	87	N/A	N/A	N/A
49	883-12052004-313-210	<18	204	88	N/A	N/A	N/A
50	883-12052004-313-211	<18	267	89	N/A	N/A	N/A
51	883-12052004-313-212	<18	227	90	N/A	N/A	N/A
52	883-12052004-313-213	<18	279	91	N/A	N/A	N/A
53	883-12052004-313-214	<18	250	92	N/A	N/A	N/A
54	883-12052004-313-215	<18	302	93	N/A	N/A	N/A
55	883-12052004-313-216	23	233	94	N/A	N/A	N/A
56	883-12052004-313-217	<18	276	95	N/A	N/A	N/A
57	883-12052004-313-218	<18	239	96	N/A	N/A	N/A
58	883-12052004-313-219	<18	316	97	N/A	N/A	N/A
59	883-12052004-313-220	<18	259	98	N/A	N/A	N/A
60	883-12052004-313-221	<18	256	99	N/A	N/A	N/A
61	883-12052004-313-222	<18	256	100	N/A	N/A	N/A
62	883-12052004-313-223	<18	241	101	N/A	N/A	N/A
63	883-12052004-313-224	<18	221	102	N/A	N/A	N/A
64	883-12052004-313-225	<18	244	103	N/A	N/A	N/A
65	883-12052004-313-226	<18	264	104	N/A	N/A	N/A
66	883-12052004-313-227	32	213	105	N/A	N/A	N/A
67	883-12052004-313-228	<18	382	106	N/A	N/A	N/A
68	883-12052004-313-229	<18	227	107	N/A	N/A	N/A
69	883-12052004-313-230	26	342	108	N/A	N/A	N/A
70	883-12052004-313-231	106	348	109	N/A	N/A	N/A
71	883-12052004-313-232	20	342	110	N/A	N/A	N/A
72	883-12052004-313-233	<18	261	111	N/A	N/A	N/A
73	883-12052004-313-234	20	336	112	N/A	N/A	N/A
74	883-12052004-313-235	<18	216	113	N/A	N/A	N/A
75	Inner Package, External	<18	<179	114	N/A	N/A	N/A
76	Outer Package, External	<18	<179	115	N/A	N/A	N/A
77	N/A	N/A	N/A	116	N/A	N/A	N/A

(Please find attachment, pages 1-7 to this Survey)

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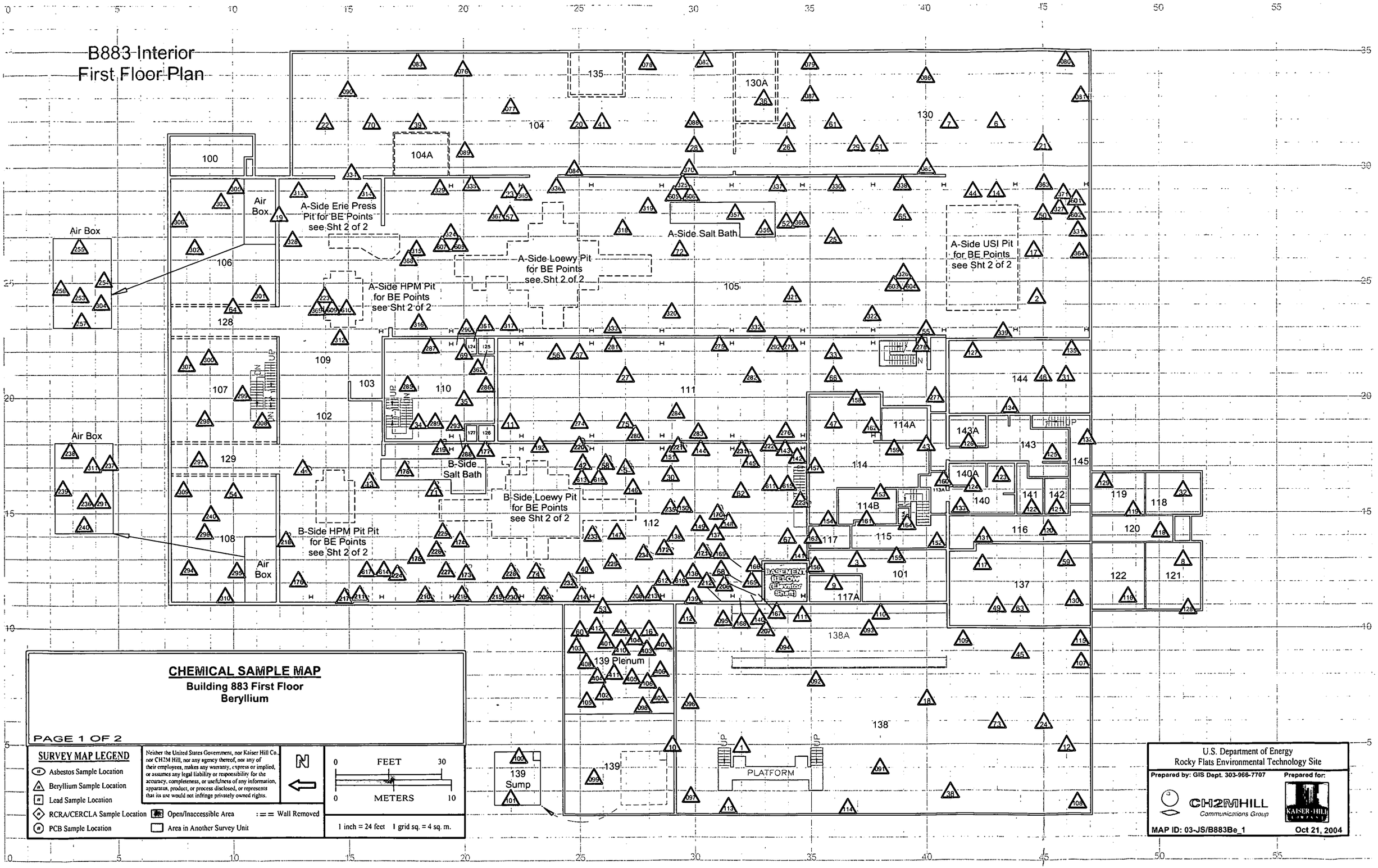
B883 Interior
First Floor Plan
A-Side Erie Press Pit for BE Points see Sht 2 of 2
A-Side Salt Bath
A-Side Loewy Pit for BE Points see Sht 2 of 2
A-Side USI Pit for BE Points see Sht 2 of 2
A-Side HPM Pit for BE Points see Sht 2 of 2
B-Side Salt Bath
B-Side Loewy Pit for BE Points see Sht 2 of 2
B-Side HPM Pit Pit for BE Points see Sht 2 of 2
Air Box
BASEMENT BELOW (Elevator Shaft)
139 Plenum
139 Sump
PLATFORM
CHEMICAL SAMPLE MAP
Building 883 First Floor
Beryllium
PAGE 1 OF 2
SURVEY MAP LEGEND
Asbestos Sample Location
Beryllium Sample Location
Lead Sample Location
RCRA/CERCLA Sample Location
PCB Sample Location
Open/Inaccessible Area
Area in Another Survey Unit
Wall Removed
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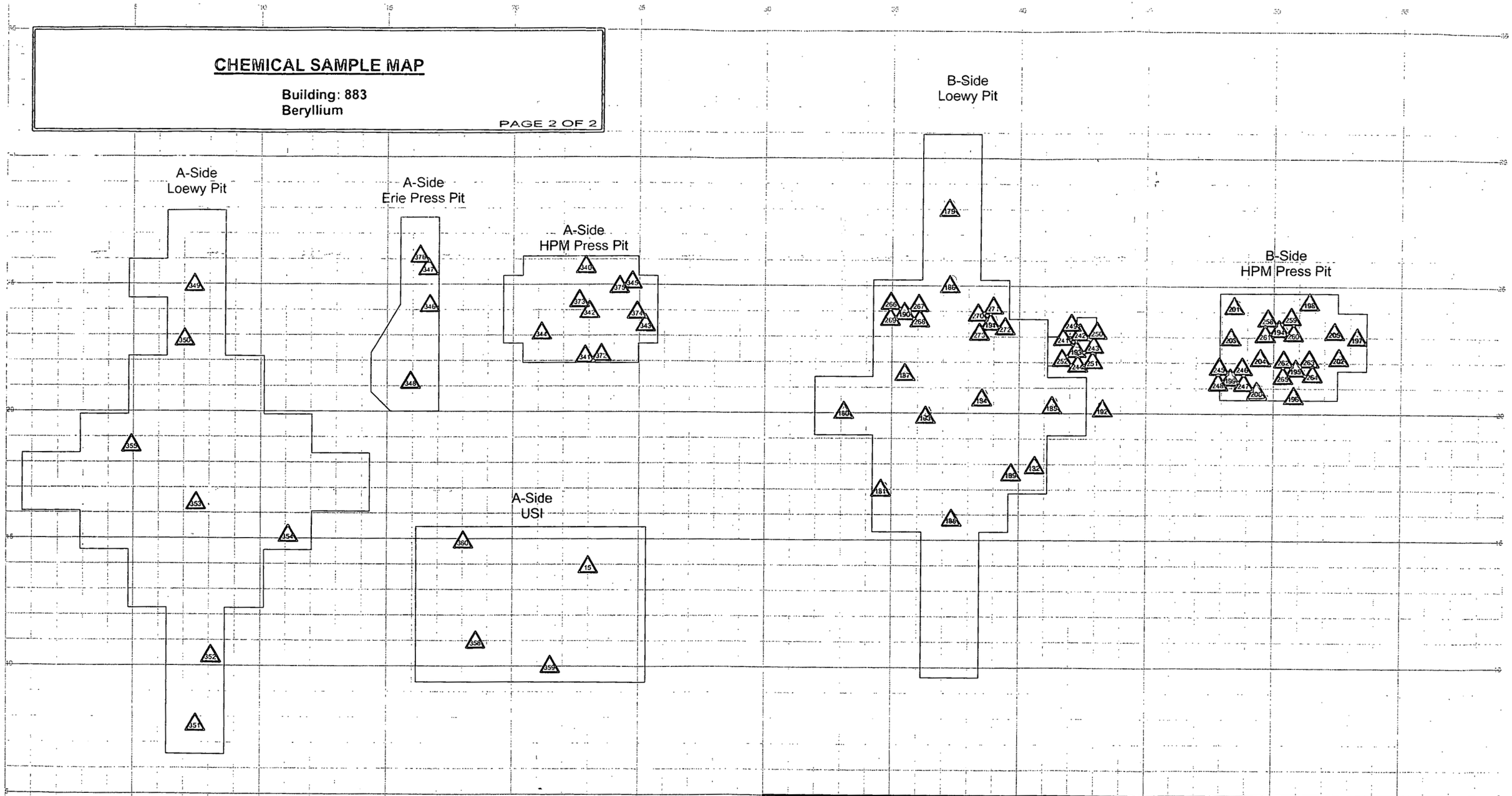
FEET
METERS
1 inch = 24 feet 1 grid sq. = 4 sq. m.
U.S. Department of Energy
Rocky Flats Environmental Technology Site
Prepared by: GIS Dept. 303-966-7707
Prepared for:
CH2MHILL
Communications Group
KAISER-HILL
MAP ID: 03-JS/B883Be_1
Oct 21, 2004

123

CHEMICAL SAMPLE MAP

Building: 883
Beryllium



SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCB Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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N

0 FEET 18
0 METERS 6

1 inch = 12 feet 1 grid sq. = 1 sq. m.

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707

CH2MHILL
Communications Group

Prepared for:

KAISER HILL

MAP ID: 03-JS/B883Be_1_2

Jan. 19, 2005

POST-FIXATIVE LLW SURVEYS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ebeline	Mfg.	NE Electra	Mfg.	NE Electra
Model	SAC 4	Model	DP-6	Model	DP-6
Serial #	N/A	Serial #	N/A	Serial #	N/A
Cal Due	N/A	Cal Due	N/A	Cal Due	N/A
Bkg	N/A cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	N/A %	Efficiency	N/A %	Efficiency	N/A %
MDA	20 dpmα	MDA	###### dpmα	MDA	###### dpmα
Mfg.	Eberline	Mfg.	NE Electra	Mfg.	NE Electra
Model	BC 4	Model	DP-6	Model	DP-6
Serial #	843	Serial #	N/A	Serial #	N/A
Cal Due	10/4/05	Cal Due	N/A	Cal Due	N/A
Bkg	43.1 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	14.00 %	Efficiency	N/A %	Efficiency	N/A %
MDA	258 dpmβ	MDA	###### dpmβ	MDA	###### dpmβ

Survey Tracking # N/A
Survey Type: Contamination
Building: 883
Location: Rm 112 Floor
Purpose: LLW characterization post fix

RWP #: N/A

Date: 2/7/05 Time: 1000

[redacted]

RCT: NA / NA / NA
Print name / Signature / Emp. #

PRN/REN # : N/A
Comments: Nuclides of concern is Depleted Uranium (DU). Survey performed to verify contamination levels after fixative applieid in B883 B Side Rm 112. Performed swipe of floors in Rm 112. Beta efficiency listed reflects correction for DU. Calibrated efficiency for BC-4 # 843 is 25.0%.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
2	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
3	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
4	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
5	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
6	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
7	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
8	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
9	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
10	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
11	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
12	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
13	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
14	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
15	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
16	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
17	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
18	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
19	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
20	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A

Date Reviewed: 2/7/05 **RS Supervision:** [redacted]

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
21	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
22	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
23	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
24	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
25	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
26	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
27	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
28	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
29	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
30	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
31	Rm 112 Floor	N/A	N/A	N/A	<258	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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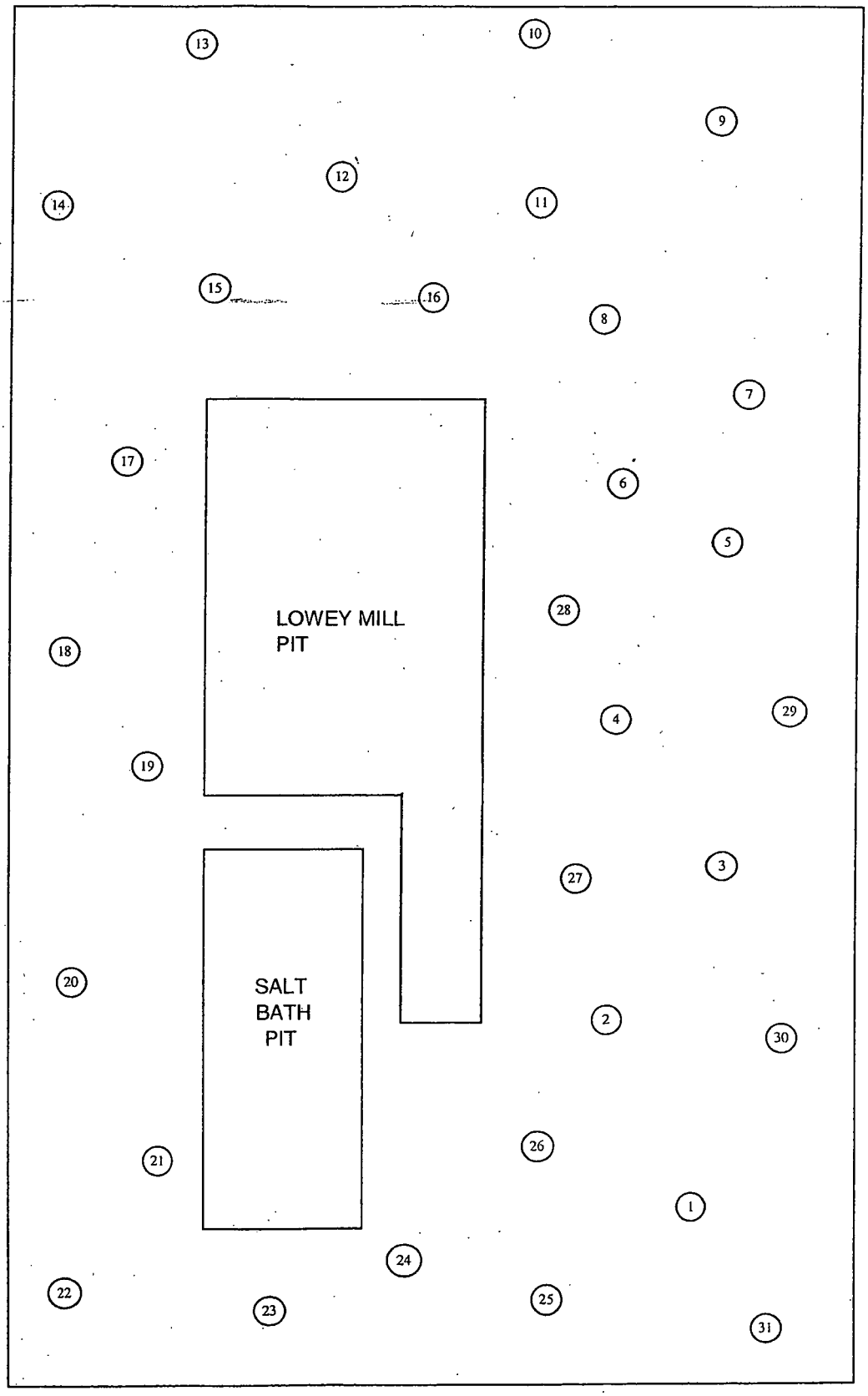
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ebeline	Mfg.	NE Electra	Mfg.	NE Electra
Model	SAC 4	Model	DP-6	Model	DP-6
Serial #	N/A	Serial #	N/A	Serial #	N/A
Cal Due	N/A	Cal Due	N/A	Cal Due	N/A
Bkg	N/A cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	N/A %	Efficiency	N/A %	Efficiency	N/A %
MDA	20 dpmα	MDA	###### dpmα	MDA	###### dpmα
Mfg.	Eberline	Mfg.	NE Electra	Mfg.	NE Electra
Model	BC 4	Model	DP-6	Model	DP-6
Serial #	843	Serial #	N/A	Serial #	N/A
Cal Due	10/4/05	Cal Due	N/A	Cal Due	N/A
Bkg	N/A cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	14.00 %	Efficiency	N/A %	Efficiency	N/A %
MDA	258 dpmβ	MDA	###### dpmβ	MDA	###### dpmβ

Survey Tracking # N/A
Survey Type: Contamination
Building: 883
Location: B Side salt bath pit
Purpose: LLW characterization post fix

RWP #: N/A

Date: 2/7/05 Time: 1000

[redacted]

RCT: NA / NA / NA
Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern is Depleted Uranium (DU). Survey performed to verify contamination levels after fixative applieid in B883 B Side salt bath pit. Performed swipe of floors and walls of salt bath pit. Beta efficiency listed reflects correction for DU. Calibrated efficiency for BC-4 # 843 is 25.0%.

SURVEY RESULTS

	LOCATION	ALPHA			BETA		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
2	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
3	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
4	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
5	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
6	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
7	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
8	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
9	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
10	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
11	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
12	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
13	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
14	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
15	Salt Bath Pit Floor	N/A	N/A	N/A	<258	N/A	N/A
16	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
17	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
18	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
19	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
20	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A

Date Reviewed: 2/7/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
22	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
23	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
24	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
25	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
26	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
27	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
28	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
29	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
30	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
31	Salt Bath Pit Wall	N/A	N/A	N/A	<258	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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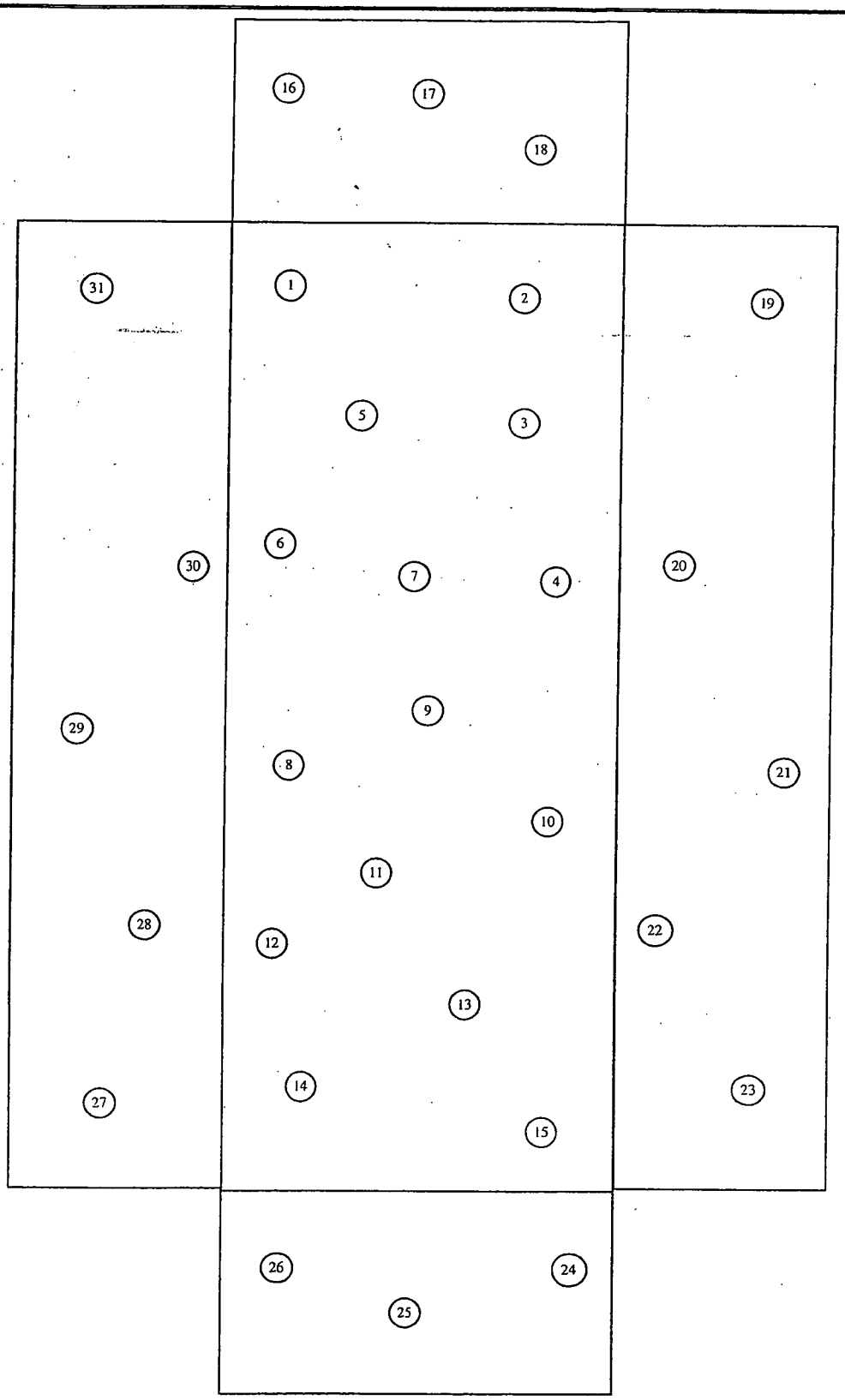
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	N/A %
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N./A
Bkg	80.1 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A %
MDA	177 dpmβ	MDA	200 dpmβ	MDA	N/A dpmβ

Survey Tracking # 883-04-S1323

Survey Type: Contamination

Building: 883

Location: G-5, B-Side, Rm 102

Purpose: Follow-UP Post Fracture

RWP #: N/A

Date: 1/22/05 [redacted]

[redacted] [redacted] [redacted] [redacted]

Print name Signature Emp #

RCT: N/A / N/A / N/A

Print name Signature Emp #

PRN/REN #: N/A

Comments: Nuclide of concern is Depleted Uranium only. Default efficiencies and MDC's for DU was used. Survey performed as Follow-up surveys.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
2	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
3	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
4	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
5	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
6	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
7	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
8	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
9	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
10	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
11	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
12	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
13	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
14	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
15	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
16	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
17	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
18	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
19	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A
20	Floor, Rm 102	<18	N/A	N/A	<177	N/A	N/A

[redacted] [redacted] [redacted] [redacted] / [redacted] [redacted] [redacted]

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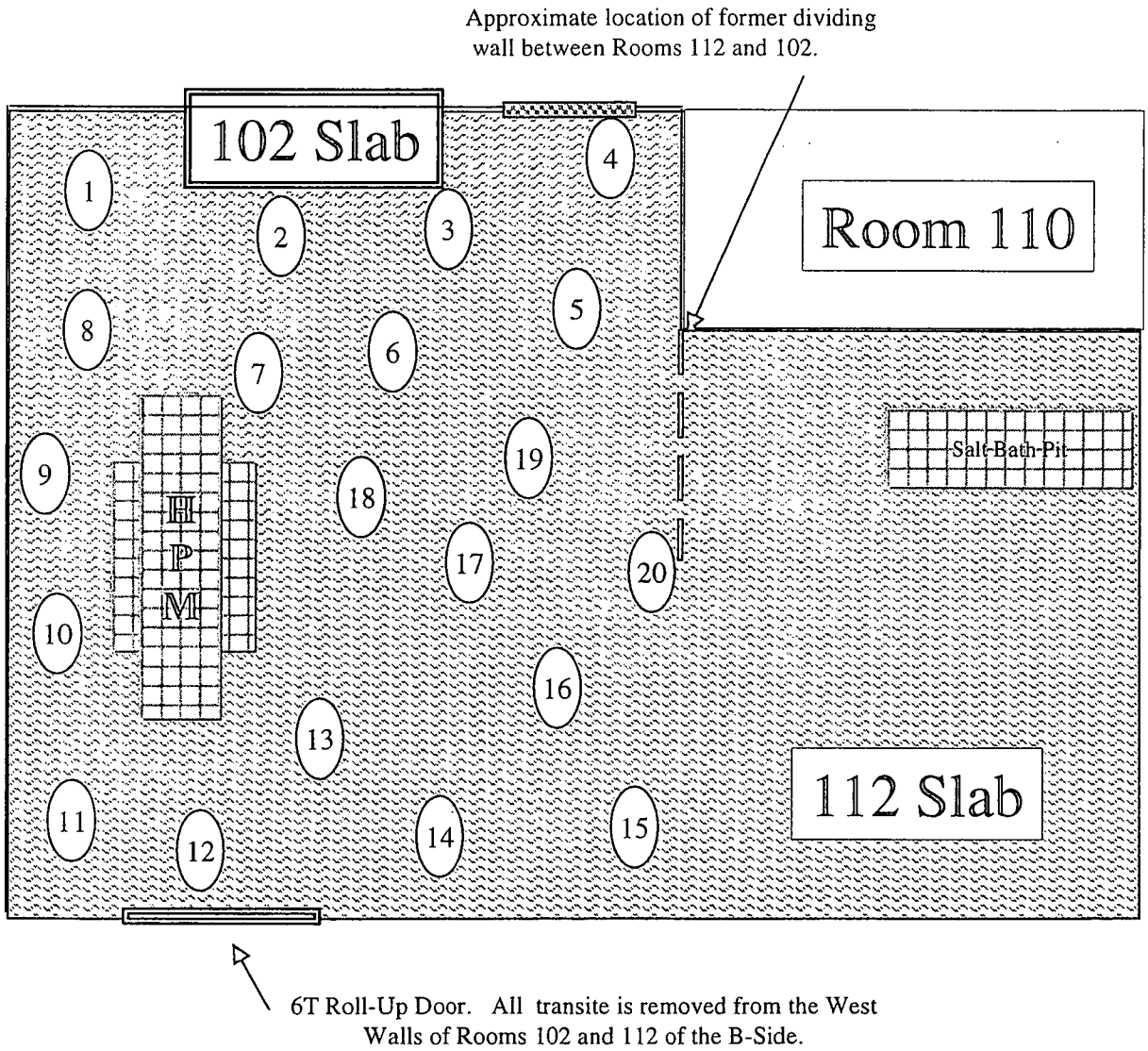
Bldg. 883, Room 102 Slab
Post Paint Confirmation Survey
Survey Tracking # 04-883-S1323

N

Note - this survey performed in addition to routine swipes in the North areas of the B-side slab of Bldg. 883. These slab areas were previously swiped before Contamination Area deposting and transite removal activities for the B-Side. The Room 102 slab has been posted since transite removal as a Fixed Contamination Area.



Swipe surveys taken at approximate sampling locations shown on slab areas.

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143883	Serial #	N/A	Serial #	N/A
Cal Due	7/13/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	22.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	####### dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143883	Serial #	N/A	Serial #	N/A
Cal Due	7/13/05	Cal Due	N/A	Cal Due	N/A
Bkg	90.0 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	187 dpmβ	MDA	200 dpmβ	MDA	####### dpmβ

Survey Tracking # 883-04-S1325

Survey Type: Contamination

Building: 883

Location: B Side NE Ceiling under Mezz.

Purpose: Post Paint

RWP #: N/A

Date: 1/22/05 Time: 1300

[redacted]

RCT: NA / NA / NA

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed post paint on ceiling under mezz. on the north East Corner of the B Side.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Ceiling	<18	N/A	N/A	<189	N/A	N/A
2	Ceiling	<18	N/A	N/A	<189	N/A	N/A
3	Ceiling	<18	N/A	N/A	<189	N/A	N/A
4	Ceiling	<18	N/A	N/A	<189	N/A	N/A
5	Beam	<18	N/A	N/A	<189	N/A	N/A
6	Ceiling	<18	N/A	N/A	<189	N/A	N/A
7	Beam	<18	N/A	N/A	<189	N/A	N/A
8	Ceiling	<18	N/A	N/A	<189	N/A	N/A
9	Ceiling	<18	N/A	N/A	<189	N/A	N/A
10	Ceiling	<18	N/A	N/A	<189	N/A	N/A
11	Ceiling	<18	N/A	N/A	<189	N/A	N/A
12	Ceiling	<18	N/A	N/A	<189	N/A	N/A
13	Ceiling	<18	N/A	N/A	<189	N/A	N/A
14	Ceiling	<18	N/A	N/A	<189	N/A	N/A
15	Ceiling	<18	N/A	N/A	<189	N/A	N/A
16	Beam	<18	N/A	N/A	<189	N/A	N/A
17	Beam	<18	N/A	N/A	<189	N/A	N/A
18	Beam / Ceiling	<18	N/A	N/A	<189	N/A	N/A
19	Ceiling	<18	N/A	N/A	<189	N/A	N/A
20	Ceiling	<18	N/A	N/A	<189	N/A	N/A

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

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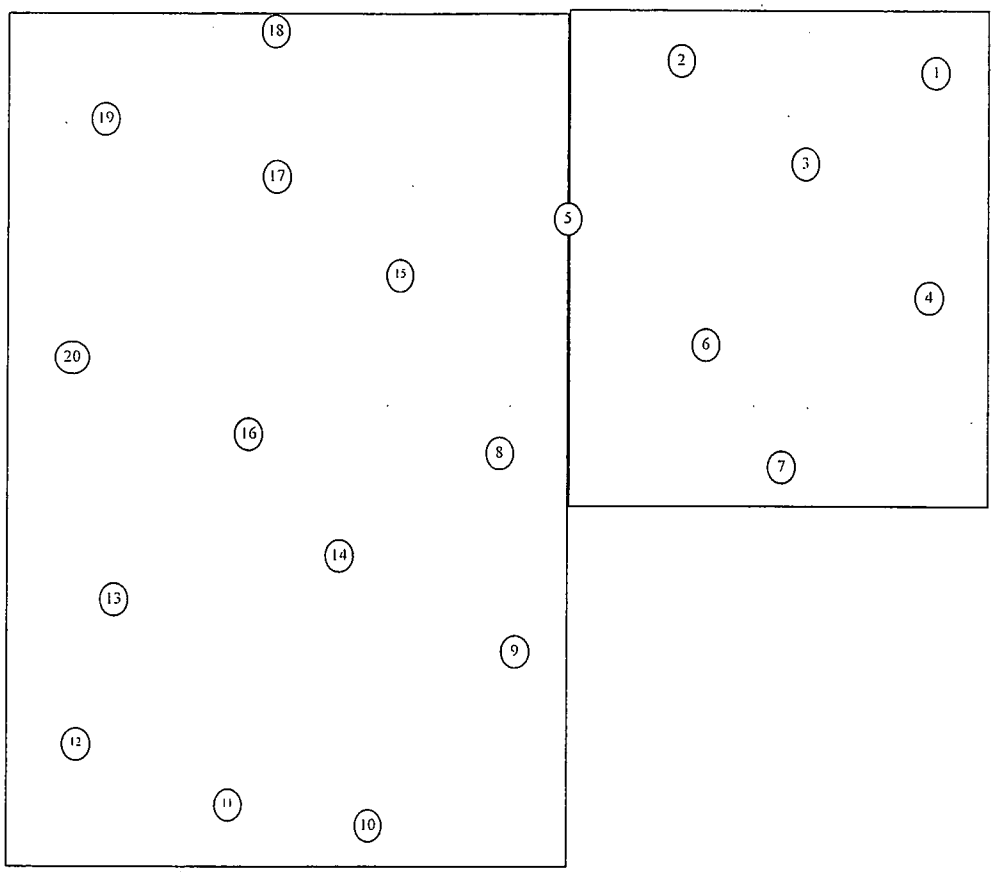
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

← N

SURVEY # 883-04-S1325



883 B SIDE NE CORNER CEILING UNDER MEZZ.

NOTE - This performed as a grp data survey for B-Side. AREA was previously POST-PAINT swipe surveyed and deposted for TRANSITE removal.

S. [illegible], RIST Rad Eng

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	143866	Serial #		Serial #	1134
Cal Due	2/16/05	Cal Due		Cal Due	4/20/05
Bkg	0.7 cpmα	Bkg	cpmα	Bkg	6.0 cpmα
Efficiency	34.80 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	71 dpmα

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	143866	Serial #		Serial #	1134
Cal Due	2/16/05	Cal Due		Cal Due	4/20/05
Bkg	67.3 cpmβ	Bkg	cpmβ	Bkg	708.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	163 dpmβ	MDA	dpmβ	MDA	575 dpmβ

Survey Tracking # 883-04-S1177
Survey Type: Contamination
Building: 883
Location: B-SideCeiling&Crane&Walls
Purpose: Post Painting

RWP #: 04-880-0002

Date: 12/20/04 Time: 16:00

[redacted]

RCT: N/A / N/A / N/A
Print name Signature Emp. #

PRN/REN # : N/A
Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Top of Duct	<18	85	N/A	<163	5310	N/A
2	Ceiling Panel	<18	95	N/A	<163	1280	N/A
3	Inside Duct	<18	135	N/A	<163	1010	N/A
4	Wall Beam	<18	<71	N/A	<163	2080	N/A
5	Top of Duct	<18	<71	N/A	<163	720	N/A
6	Inside Duct	<18	170	N/A	<163	1585	N/A
7	Crane Beam	<18	120	N/A	<163	14460	N/A
8	Crane Rail	<18	<71	N/A	<163	3960	N/A
9	Wall Beam	<18	<71	N/A	<163	700	N/A
10	Wall Panel	<18	80	N/A	<163	<575	N/A
11	Ceiling Beam	<18	<71	N/A	<163	1090	N/A
12	Crane Rail	<18	<71	N/A	<163	<575	N/A
13	West Door	<18	80	N/A	<163	23830	N/A
14	Wall cross beam	<18	<71	N/A	<163	1280	N/A
15	Crane Rail	<18	<71	N/A	<163	1110	N/A
16	Top of Duct	<18	<71	N/A	<163	960	N/A
17	Crane Platform	<18	<71	N/A	<163	6845	N/A
18	Crane Rail	<18	<71	N/A	<163	<575	N/A
19	Crane control Booth	<18	<71	N/A	<163	2760	N/A
20	Wall Beam	<18	<71	N/A	<163	<575	N/A

[redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Crane Rail	<18	<71	N/A	<163	1010	N/A
22	W. Door	<18	80	N/A	<163	710	N/A
23	Crane Motor Drive	<18	<71	N/A	<163	<575	N/A
24	Wall Beam	<18	<71	N/A	<163	<575	N/A
25	wall	<18	85	N/A	<163	<575	N/A
26	Wall Beam	<18	<71	N/A	<163	<575	N/A
27	Crane Rail	<18	<71	N/A	<163	<575	N/A
28	Ceiling Beam	<18	<71	N/A	<163	<575	N/A
29	Inside Duct	<18	120	N/A	<163	610	N/A
30	Top of Duct	<18	<71	N/A	<163	585	N/A
31	Wall Beam	<18	<71	N/A	<163	735	N/A
32	Wall	<18	<71	N/A	<163	<575	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883 - 04 - S1177

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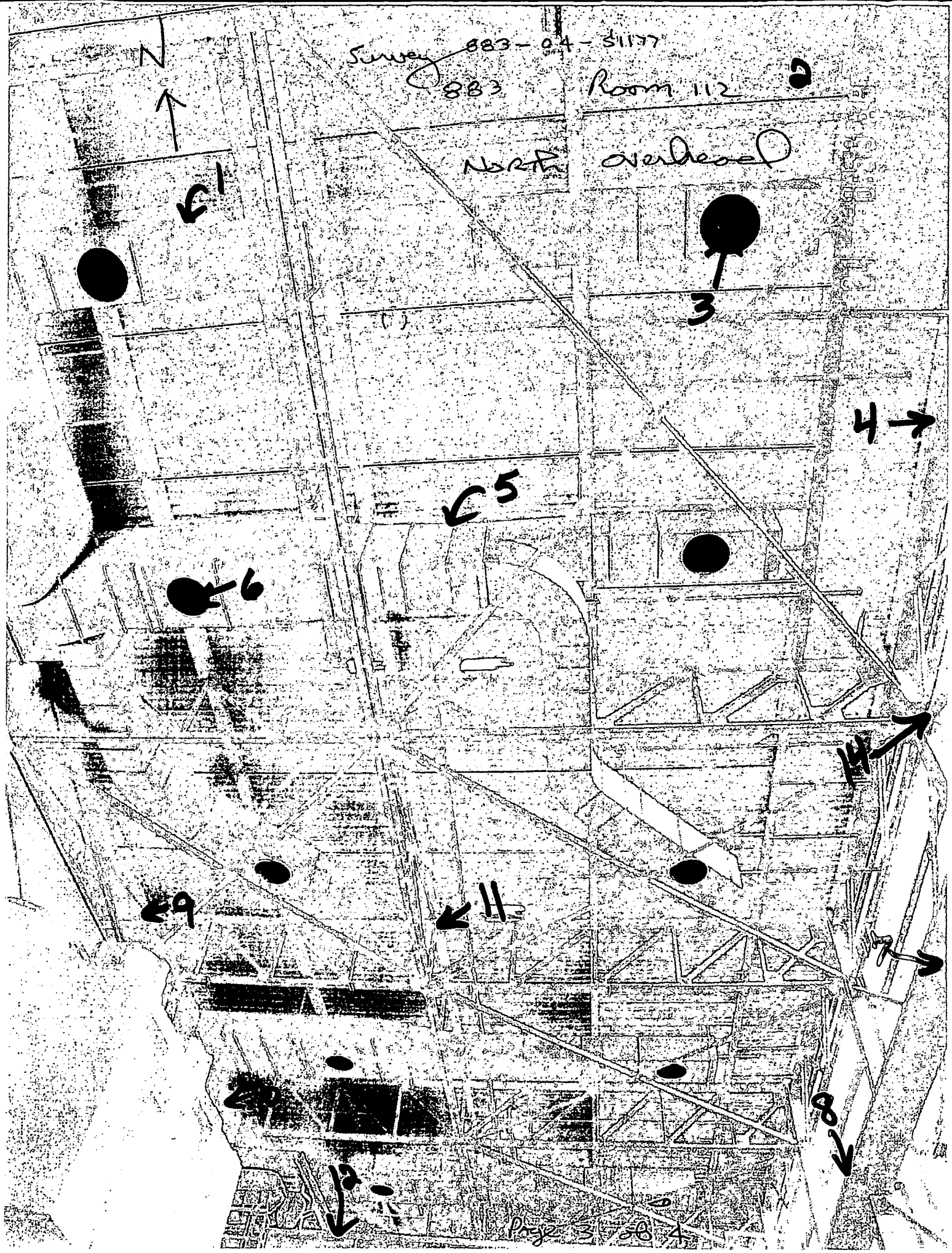
Survey 883-04-31177
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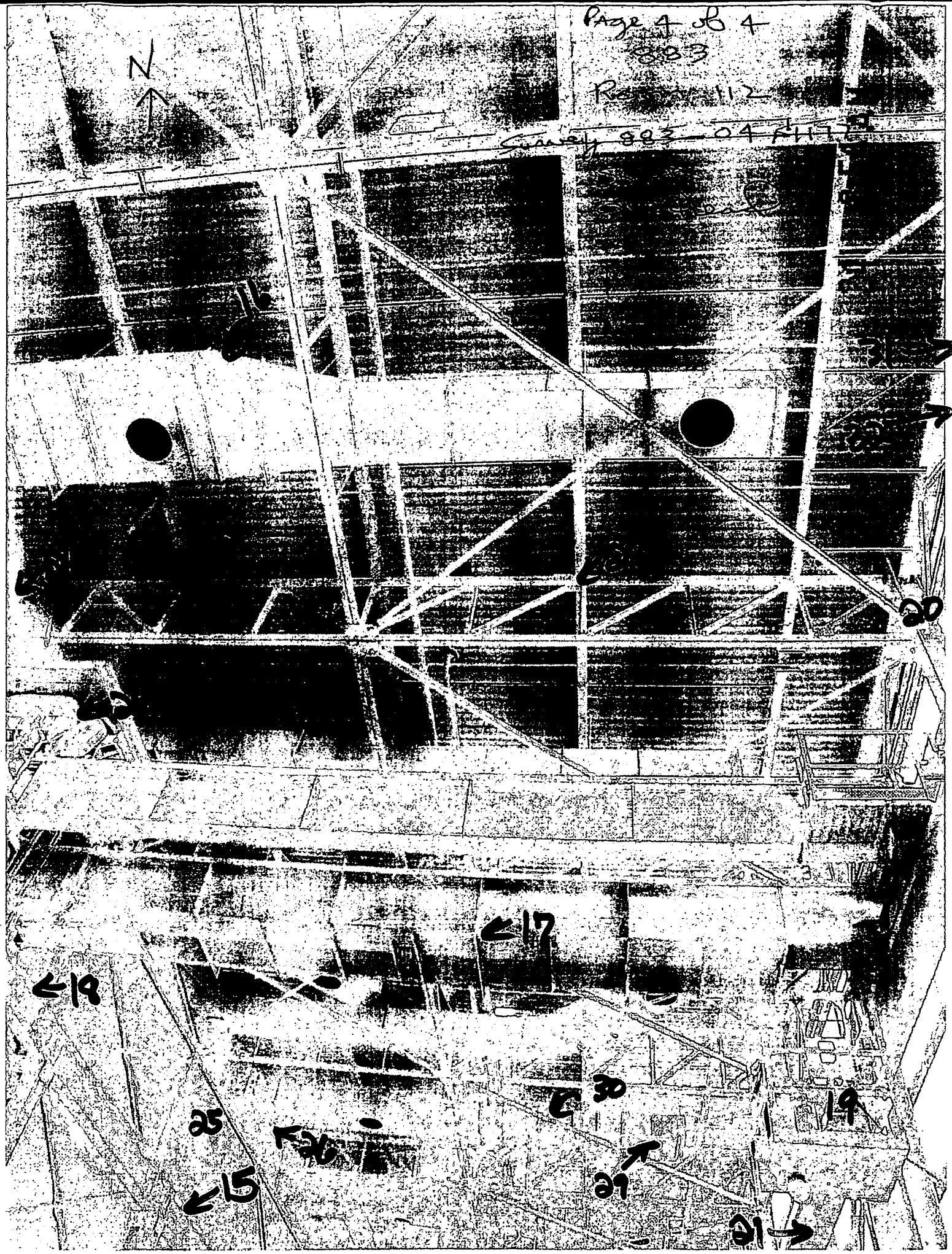
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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	
Cal Due	2/16/05	Cal Due	N/A	Cal Due	
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	12 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electr[redacted]
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	
Cal Due	2/16/05	Cal Due	N/A	Cal Due	
Bkg	70.6 cpmβ	Bkg	N/A cpmβ	Bkg	cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	12 dpmβ

Survey Tracking # 883-04-S1166

Survey Type: Contamination

Building: 883

Location: Contamination Area B side walls

Purpose: After Painting

RWP #: 04-880-0002

Date: 12/17/04 Time: 1100

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is depleted uranium. Survey performed on painted deconned walls in B883 from the floor level to about 8' high..

SURVEY RESULTS

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
2	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
3	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
4	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
5	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
6	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
7	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
8	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
9	painted wall random floor to 8'	29	N/A	N/A	<205	N/A	N/A
10	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
11	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
12	painted wall random floor to 8'	42	N/A	N/A	<205	N/A	N/A
13	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
14	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
15	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
16	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
17	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
18	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
19	painted wall random floor to 8'	30	N/A	N/A	<205	N/A	N/A
20	painted wall random floor to 8'	36	N/A	N/A	<205	N/A	N/A

Date Reviewed: 12/20/04 **RS Supervision** [redacted]

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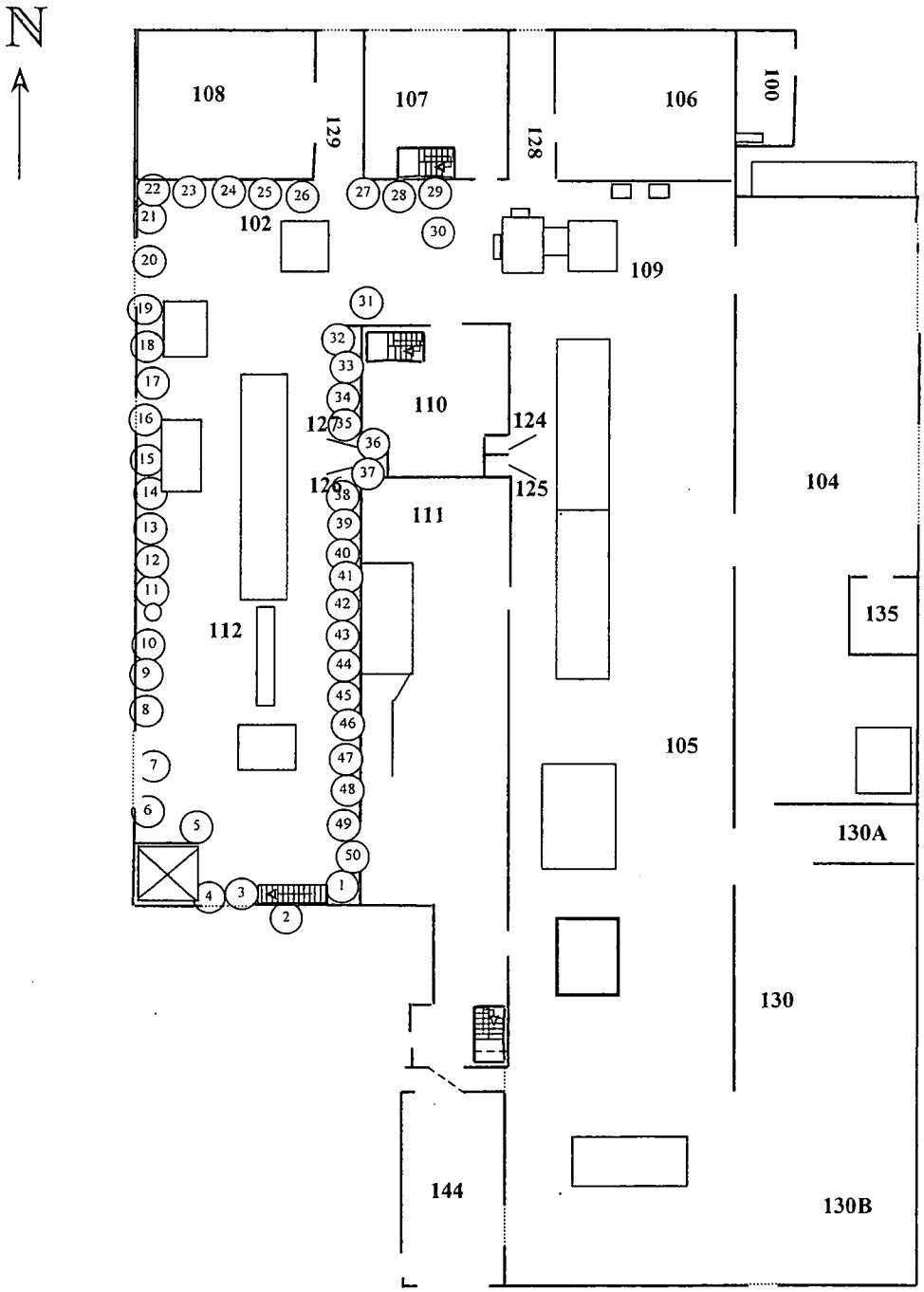
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

	LOCATION	ALPHA			BETA		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
22	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
23	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
24	painted wall random floor to 8'	32	N/A	N/A	<205	N/A	N/A
25	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
26	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
27	painted wall random floor to 8'	<18	N/A	N/A	300	N/A	N/A
28	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
29	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
30	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
31	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
32	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
33	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
34	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
35	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
36	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
37	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
38	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
39	painted wall random floor to 8'	69	N/A	N/A	<205	N/A	N/A
40	painted wall random floor to 8' gear box	45	N/A	N/A	545	N/A	N/A
41	painted wall random floor to 8'	60	N/A	N/A	500	N/A	N/A
42	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
43	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
44	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
45	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
46	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
47	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
48	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
49	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
50	painted wall random floor to 8'	<18	N/A	N/A	<205	N/A	N/A
51	N/A	N/A	N/A	N/A	N/A	N/A	N/A
52	N/A	N/A	N/A	N/A	N/A	N/A	N/A
53	N/A	N/A	N/A	N/A	N/A	N/A	N/A
54	N/A	N/A	N/A	N/A	N/A	N/A	N/A
55	N/A	N/A	N/A	N/A	N/A	N/A	N/A
56	N/A	N/A	N/A	N/A	N/A	N/A	N/A
57	N/A	N/A	N/A	N/A	N/A	N/A	N/A
58	N/A	N/A	N/A	N/A	N/A	N/A	N/A
59	N/A	N/A	N/A	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	N/A	N/A	N/A	N/A
61	N/A	N/A	N/A	N/A	N/A	N/A	N/A
62	N/A	N/A	N/A	N/A	N/A	N/A	N/A
63	N/A	N/A	N/A	N/A	N/A	N/A	N/A
64	N/A	N/A	N/A	N/A	N/A	N/A	N/A
65	N/A	N/A	N/A	N/A	N/A	N/A	N/A
66	N/A	N/A	N/A	N/A	N/A	N/A	N/A
67	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	SAC-4	Model	N/A
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	N/A
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	N/A
MDA	18 dpmα	MDA	N/A dpmα	MDA	N/A

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N[redacted]
Model	2929	Model	BC-4	Model	[redacted]
Serial #	143866	Serial #	N/A	Serial #	[redacted]
Cal Due	2/16/05	Cal Due	N/A	Cal Due	[redacted]
Bkg	73.4 cpmβ	Bkg	N/A cpmβ	Bkg	N/A
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	N/A
MDA	170 dpmβ	MDA	N/A dpmβ	MDA	N/A

Survey Tracking # 883-04-S1172

Survey Type: Contamination and Radiation

Building: 883

Location: B-Side Equipment (HPM&Loewy)

Purpose: BE Samples (16 Samples) Post Fixation

RWP #: N/A

Date: 12/20/04 Time: 06:00

[redacted]

RCT: NA / NA / N/A

Print name / Signature / Emp. #

PRN/REN # : 040908-ASD-001

Comments: Nuclide of concern are Depleted Uranium with a correction factor used (16 each) "Be" Swipe samples. drawing

#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2	#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2
1	883-12182004-313-258	<18	<170	20	N/A	N/A	N/A
2	883-12182004-313-259	<18	<170	21	N/A	N/A	N/A
3	883-12182004-313-260	<18	<170	22	N/A	N/A	N/A
4	883-12182004-313-261	<18	<170	23	N/A	N/A	N/A
5	883-12182004-313-262	<18	<170	24	N/A	N/A	N/A
6	883-12182004-313-263	<18	<170	25	N/A	N/A	N/A
7	883-12182004-313-264	<18	<170	26	N/A	N/A	N/A
8	883-12182004-313-265	<18	<170	27	N/A	N/A	N/A
9	883-12182004-313-266	<18	<170	28	N/A	N/A	N/A
10	883-12182004-313-267	<18	<170	29	N/A	N/A	N/A
11	883-12182004-313-268	<18	<170	30	N/A	N/A	N/A
12	883-12182004-313-269	<18	<170	31	N/A	N/A	N/A
13	883-12182004-313-270	<18	<170	32	N/A	N/A	N/A
14	883-12182004-313-271	<18	<170	33	N/A	N/A	N/A
15	883-12182004-313-272	<18	<170	34	N/A	N/A	N/A
16	883-12182004-313-273	<18	<170	35	N/A	N/A	N/A
17	Inner Package, External	<18	<170	36	N/A	N/A	N/A
18	Outer Package, External	<18	<170	37	N/A	N/A	N/A
19	N/A	N/A	N/A	38	N/A	N/A	N/A

Date Reviewed: 12/20/04 **RS Supervision:** [redacted]

CHEMICAL SAMPLE MAP

Building: 883
Beryllium

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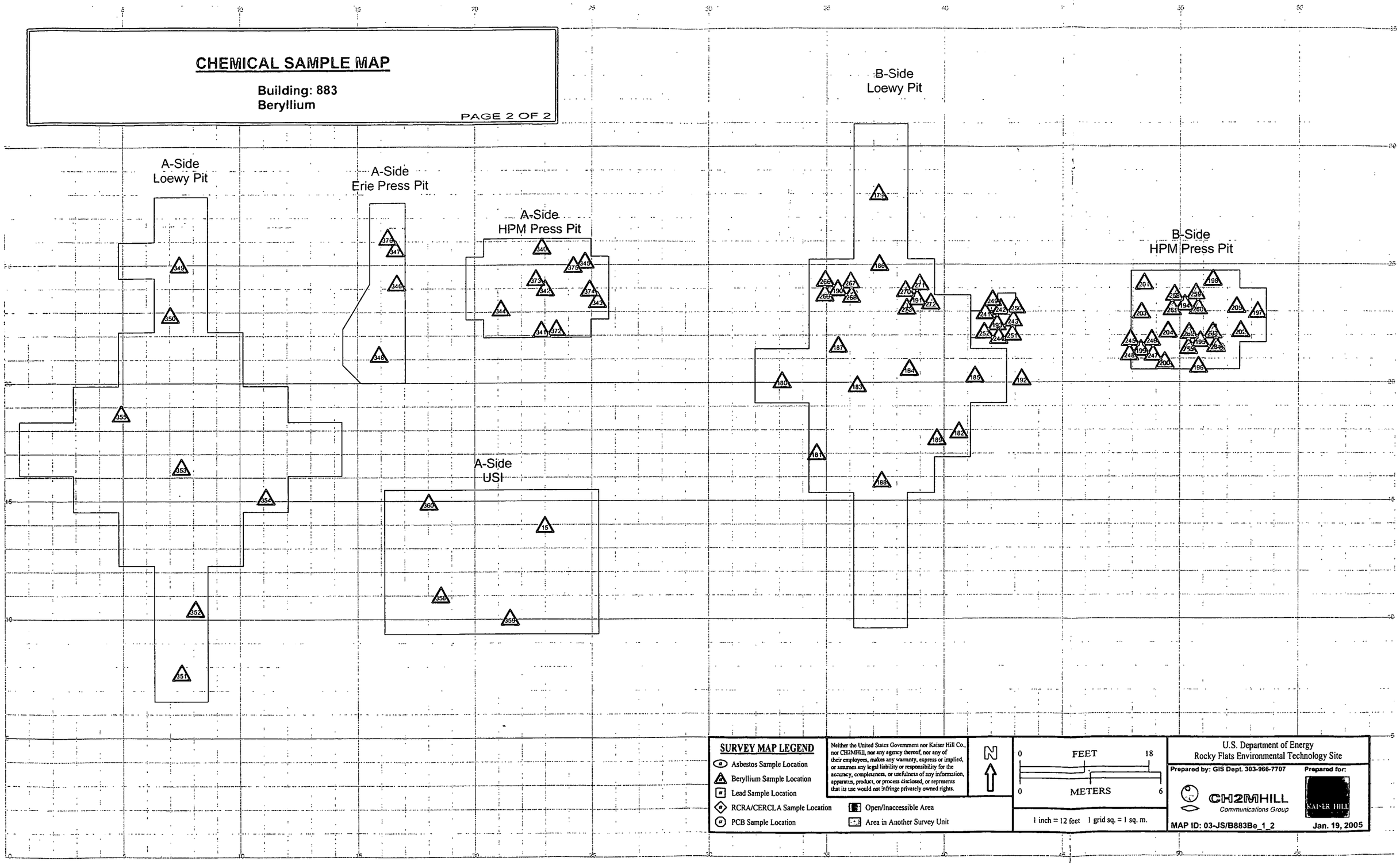

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COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA 040908-ASD

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	SAC-4	Model	N/A
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	N/A
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	N/A
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	BC-4	Model	N/A
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	73.4 cpmβ	Bkg	N/A cpmβ	Bkg	N/A
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A
MDA	170 dpmβ	MDA	200 dpmβ	MDA	N/A

Survey Tracking # 883-04-S1127

Survey Type: Contamination and Radiation

Building: 883

Location: B-Side Pipe Chase Plenum, HPM Pit

Purpose: BE Samples (8 Samples) Post Fixatives

RWP #: N/A

Date: 12/12/04 **Time:** 0930

[redacted]

RCT: NA / NA / N/A

Print name / Signature / Emp. #

PRN/REN # : 040908-ASD-003 4 ASD 12/13/04

Comments: Nuclide of concern are Depleted Uranium with a correction factor used (8 each) "Be" Swipe samples. drawing

COPY

#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2	#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2
1	883-12112004-313-241	63	328	20	N/A	N/A	N/A
2	883-12112004-313-242	63	256	21	N/A	N/A	N/A
3	883-12112004-313-243	121	302	22	N/A	N/A	N/A
4	883-12112004-313-244	29	264	23	N/A	N/A	N/A
5	883-12112004-313-245	72	319	24	N/A	N/A	N/A
6	883-12112004-313-246	32	319	25	N/A	N/A	N/A
7	883-12112004-313-247	98	368	26	N/A	N/A	N/A
8	883-12112004-313-248	63	336	27	N/A	N/A	N/A
9	Inner Package, External	<18	<170	28	N/A	N/A	N/A
10	Outer Package, External	<18	<170	29	N/A	N/A	N/A
11	N/A	N/A	N/A	30	N/A	N/A	N/A
12	N/A	N/A	N/A	31	N/A	N/A	N/A
13	N/A	N/A	N/A	32	N/A	N/A	N/A
14	N/A	N/A	N/A	33	N/A	N/A	N/A
15	N/A	N/A	N/A	34	N/A	N/A	N/A
16	N/A	N/A	N/A	35	N/A	N/A	N/A
17	N/A	N/A	N/A	36	N/A	N/A	N/A
18	N/A	N/A	N/A	37	N/A	N/A	N/A
19	N/A	N/A	N/A	38	N/A	N/A	N/A

Date Reviewed: 12/13/04 **RS Supervision:** [redacted]

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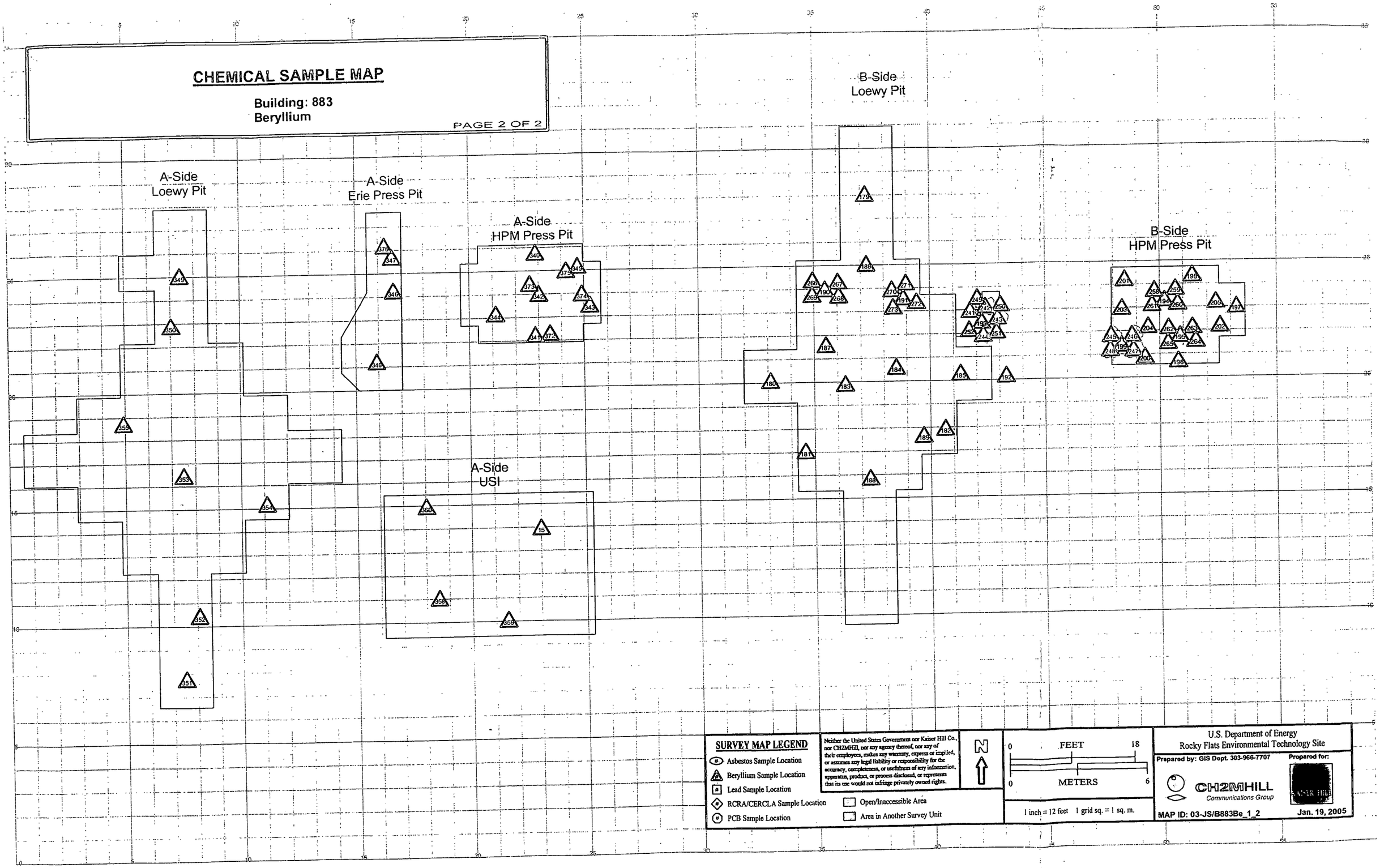
145

CHEMICAL SAMPLE MAP

Building: 883
Beryllium

PAGE 2 OF 2



146

ATTACHMENT B-3

C-Side LLW Surveys

PRE-FIXATIVE LLW SURVEYS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	NE Tech	Mfg.	NE Tech
Model	2929	Model	DP-6	Model	DP-6
Serial #	99042	Serial #	662	Serial #	1417
Cal Due	10/26/04	Cal Due	3/30/05	Cal Due	3/28/05
Bkg	0.2 cpmα	Bkg	2 cpmα	Bkg	1 cpmα
Efficiency	0.35 %	Efficiency	21.10 %	Efficiency	20.50 %
MDA	18 dpmα	MDA	94 dpmα	MDA	94 dpmα

Mfg.	Ludlum	Mfg.	NE Tech	Mfg.	NE Tech
Model	2929	Model	DP-6	Model	DP-6
Serial #	99042	Serial #	662	Serial #	1417
Cal Due	10/26/04	Cal Due	3/30/05	Cal Due	3/28/05
Bkg	87.2 cpmβ	Bkg	738 cpmβ	Bkg	740 cpmβ
Efficiency	25.00 %	Efficiency	22.00 %	Efficiency	22.00
MDA	205 dpmβ	MDA	745 dpmβ	MDA	745 dpmβ

Survey Type: Contamination
Building: 883
Location: Rm 137
Purpose: Verification survey (PRE) Fix
RWP #: N/A
Date: 10/21/04 Time: 1000

[redacted]

PRN/REN # : N/A
Comments: Floor was surveyed to identify areas of fixed contamination over the release limits.Data entered was the highest reading found.

SURVEY RESULTS

Swipe #	Location / Description Results in DPM/100sq.cm	Removable Alpha	Removable Beta	Total Alpha	Total Beta	µrem/hr
1	see map	<18	<205	N/A	40K	N/A
2	see map	<18	<205	N/A	10K	N/A
3	see map	<18	<205	N/A	25K	N/A
4	see map	<18	<205	N/A	10K	N/A
5	see map	<18	<205	N/A	12K	N/A
6	see map	<18	<205	N/A	10K	N/A
7	see map	<18	<205	N/A	10K	N/A
8	see map	<18	<205	N/A	10K	N/A

MAP

Date Reviewed: 10/21/04 **RS Supervision:** [redacted]

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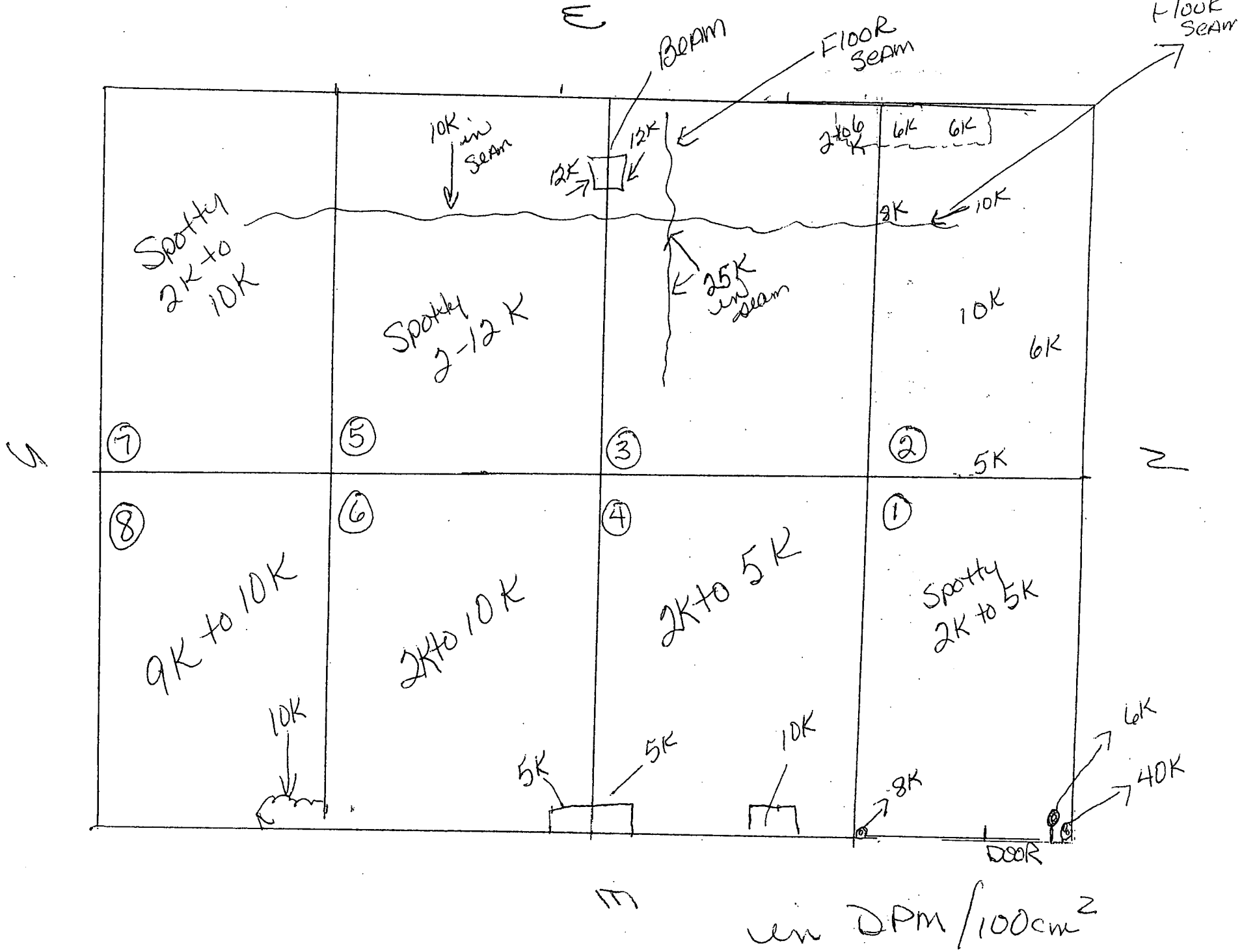
KM 13'1 FLOOR DICK 8 8 J



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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	3131
Cal Due	2/16/05	Cal Due	N/A	Cal Due	12/21/04
Bkg	0.3 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	60 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	3131
Cal Due	2/16/05	Cal Due	N/A	Cal Due	12/21/04
Bkg	85.0 cpmβ	Bkg	N/A cpmβ	Bkg	635.0 cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	182 dpmβ	MDA	200 dpmβ	MDA	545 dpmβ

Survey Tracking # 883-04-S662
Survey Type: Contamination
Building: 883
Location: C-Side
Purpose: Post Decon Pre-PDS (PRE-FIX)
RWP #: 04-880-0002
Date: 9/28/04 Time: 1530

[redacted]

RCT: NA / NA / NA
Print name / Signature / Emp. #

PRN/REN # : N/A
Comments: Nuclides of concern are from Depleted Uranium only.Beta dpm CF Applied. Survey performed as Post Decon PRE-PDS. From floor to 6' up.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1-2	Dock Pit 16-A	<18	<60	<60	<182	8 K	<545
3-4	Dock Pit 16-B	<18	850	<60	<182	20 K	<545
5-6	Scale Pit	<18	<60	<60	<182	4 K	<545
7-8	139' Pit Floor	<18	200	<60	<182	40 K	<545
9-10	139' Pit Floor	<18	240	<60	<182	20 K	<545
11-12	139' Pit Floor	<18	300	<60	<182	40 K	<545
13-14	139' Pit Floor	<18	200	<60	<182	30 K	<545
15-16	139' Pit Floor	<18	10 K	<60	<182	360 K	<545
17-18	139' Pit Floor	<18	200	<60	<182	15 K	<545
19-20	139' Pit West Wall	<18	8 K	<60	<182	46 K	<545
21-22	139' Pit West Wall	<18	3.6 K	<60	<182	43 K	<545
23-24	139' Pit West Wall	<18	6 K	<60	<182	56 K	<545
25-26	139' Pit North Wall	<18	1.5 K	<60	<182	39 K	<545
27-28	139' Pit North Wall	<18	<60	<60	<182	4 K	<545
29-30	139' Pit North Wall	<18	<60	<60	<182	3 K	<545
31-32	139' Pit East Wall	<18	450	<60	<182	6 K	<545
33-34	139' Pit East Wall	<18	600	<60	<182	4.5 K	<545
35-36	139' Pit East Wall	<18	2.5 K	<60	<182	10 K	<545
37-38	139' Pit South Wall	<18	300	<60	<182	20 K	<545
39-40	139' Pit South Wall	<18	400	<60	<182	45 K	<545

Date Reviewed: 9/28/04 RS Super[redacted]

Surveys with a dash - were used for crack activity estimates.

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883-04-5662

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
41-42	139' Pit South Wall	<18	550	<60	<182	15 K	<545
43-44	C-Side West Wall	<18	<60	<60	<182	<545	<545
45-46	C-Side West Wall	<18	<60	<60	<182	<545	<545
47-48	C-Side West Wall	<18	<60	<60	<182	<545	<545
49-50	C-Side South Wall	<18	<60	<60	<182	<545	<545
51-52	C-Side South Wall	<18	<60	<60	<182	<545	<545
53-54	C-Side South Wall	<18	<60	<60	<182	<545	<545
55-56	C-Side East Wall	<18	<60	<60	<182	<545	<545
57-58	C-Side East Wall	<18	<60	<60	<182	<545	<545
59-60	C-Side East Wall	<18	<60	<60	<182	<545	<545
61-62	C-Side North Wall	<18	<60	<60	<182	<545	<545
63-64	C-Side North Wall	<18	<60	<60	<182	<545	<545
65-66	C-Side North Wall	<18	<60	<60	<182	<545	<545
67	C-Side North On Floor	<18	<60	<60	<182	2.5 K	<545
68	C-Side North On Floor	<18	<60	<60	<182	4.5 K	<545
69	C-Side North On Floor	<18	<60	<60	<182	7 K	<545
70	C-Side North On Floor	<18	<60	<60	<182	2 K	<545
71	C-Side North On Floor	<18	<60	<60	<182	2 K	<545
72	C-Side North On Floor	<18	<60	<60	<182	6 K	<545
73	C-Side North On Floor	<18	<60	<60	<182	1.5 K	<545
74	C-Side North On Floor	<18	<60	<60	<182	1.5 K	<545
75	C-Side North On Floor	<18	<60	<60	<182	2 K	<545
76	C-Side North On Floor	<18	<60	<60	<182	5 K	<545
77	C-Side North On Floor	<18	<60	<60	<182	9 K	<545
78	C-Side North On Floor	<18	<60	<60	<182	2 K	<545
79	C-Side North On Floor	<18	<60	<60	<182	2.5 K	<545
80	C-Side North On Floor	<18	<60	<60	<182	5 K	<545
81	C-Side North On Floor	<18	<60	<60	<182	1.5 K	<545
82	C-Side North On Floor	<18	<60	<60	<182	4 K	<545
83	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
84	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
85	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
86	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
87	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
88	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
89	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
90	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
91	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
92	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
93	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
94	C-Side North Top Of Plenum	<18	<60	<60	<182	<545	<545
95-96	C-Side Various Pieces Of Equipment	<18	<60	<60	<182	<545	<545
97-98	C-Side Various Pieces Of Equipment	<18	<60	<60	<182	<545	<545
99-100	C-Side Various Pieces Of Equipment	<18	<60	<60	<182	<545	<545
101-102	C-Side Various Pieces Of Equipment @ Topside	<18	<60	<60	<182	<545	<545
103-104	C-Side Various Pieces Of Equipment @ Topside	<18	<60	<60	<182	<545	<545
105-106	C-Side Various Pieces Of Equipment @ Topside	<18	<60	<60	<182	<545	<545

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1369
Cal Due	2/16/05	Cal Due	N/A	Cal Due	3/16/05
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	34.60 %	Efficiency	33.00 %	Efficiency	21.70 %
MDA	18 dpmα	MDA	20 dpmα	MDA	60 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1369
Cal Due	2/16/05	Cal Due	N/A	Cal Due	3/16/05
Bkg	82.8 cpmβ	Bkg	N/A cpmβ	Bkg	772.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	180 dpmβ	MDA	200 dpmβ	MDA	600 dpmβ

Survey Tracking #	883-04-S977
Survey Type:	Contamination
Building:	883
Location:	Rm 138, 137, 140, 144, 139 Tent
Purpose:	PDS Survey (PRE) Fix
RWP #:	N/A
Date:	11/11/04
Time:	1100

[redacted]

PRN/REN #: N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
2	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
3	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
4	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
5	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
6	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
7	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
8	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
9	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
10	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
11	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
12	Wall Survey 1 meter up from floor (Rm 138)	<18	<60	N/A	<180	<600	N/A
13	Wall Survey 1 meter up from floor (Rm ~~138~~ 139)	<18	<60	N/A	<180	<600	N/A
14	Wall Survey 1 meter up from floor (Rm ~~138~~)	<18	<60	N/A	<180	<600	N/A
15	Wall Survey 1 meter up from floor (Rm ~~138~~)	<18	<60	N/A	<180	<600	N/A
16	Wall Survey 1 meter up from floor (Rm ~~138~~)	<18	<60	N/A	<180	<600	N/A
17	Wall Survey 1 meter up from floor (Rm ~~138~~)	<18	<60	N/A	<180	<600	N/A
18	Wall Survey 1 meter up from floor (Rm ~~138~~)	<18	<60	N/A	<180	<600	N/A
19	Wall Survey 1 meter up from floor (Rm ~~138~~)	<18	<60	N/A	<180	<600	N/A
20	Wall Survey 1 meter up from floor (Rm ~~138~~ 139)	<18	<60	N/A	<180	<600	N/A

Date Reviewed: 11/11/04 **RS Supervision:** [redacted]

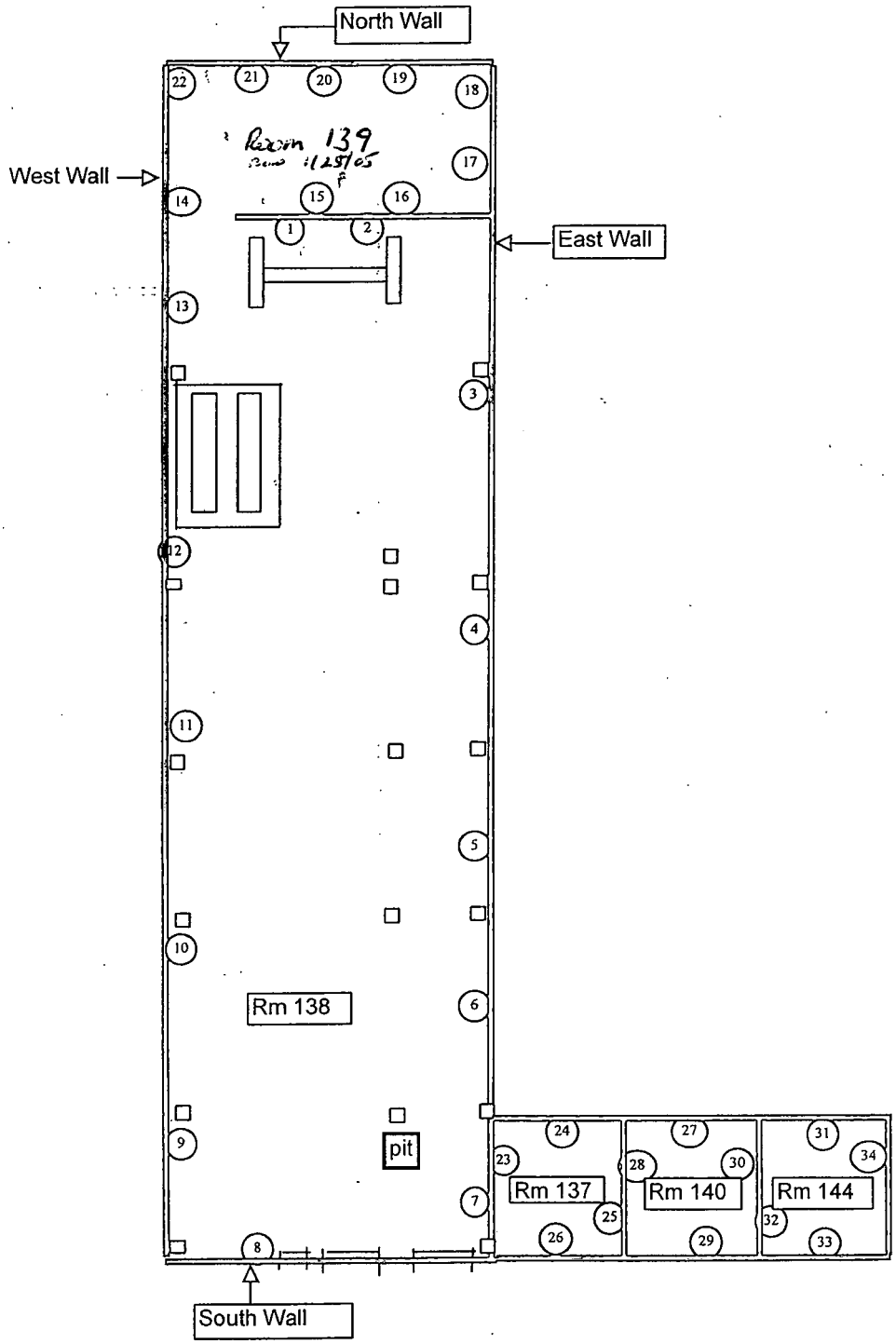
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Wall Survey 1 meter up from floor (Rm ~~138~~) 137	<18	<60	N/A	<180	<600	N/A
22	Wall Survey 1 meter up from floor (Rm ~~138~~) 137	<18	<60	N/A	<180	<600	N/A
23	Wall Survey 1 meter up from floor (Rm 137)	<18	<60	N/A	<180	<600	N/A
24	Wall Survey 1 meter up from floor (Rm 137)	<18	<60	N/A	<180	<600	N/A
25	Wall Survey 1 meter up from floor (Rm 137)	<18	<60	N/A	<180	<600	N/A
26	Wall Survey 1 meter up from floor (Rm 137)	<18	<60	N/A	<180	<600	N/A
27	Wall Survey 1 meter up from floor (Rm 140)	<18	<60	N/A	<180	<600	N/A
28	Wall Survey 1 meter up from floor (Rm 140)	<18	<60	N/A	<180	<600	N/A
29	Wall Survey 1 meter up from floor (Rm 140)	<18	<60	N/A	<180	<600	N/A
30	Wall Survey 1 meter up from floor (Rm 140)	<18	<60	N/A	<180	<600	N/A
31	Wall Survey 1 meter up from floor (Rm 144)	<18	<60	N/A	<180	<600	N/A
32	Wall Survey 1 meter up from floor (Rm 144)	<18	<60	N/A	<180	<600	N/A
33	Wall Survey 1 meter up from floor (Rm 144)	<18	<60	N/A	<180	<600	N/A
34	Wall Survey 1 meter up from floor (Rm 144)	<18	<60	N/A	<180	<600	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points


North Wall
West Wall
East Wall
South Wall
Room 139
Rm 138
pit
Rm 137
Rm 140
Rm 144
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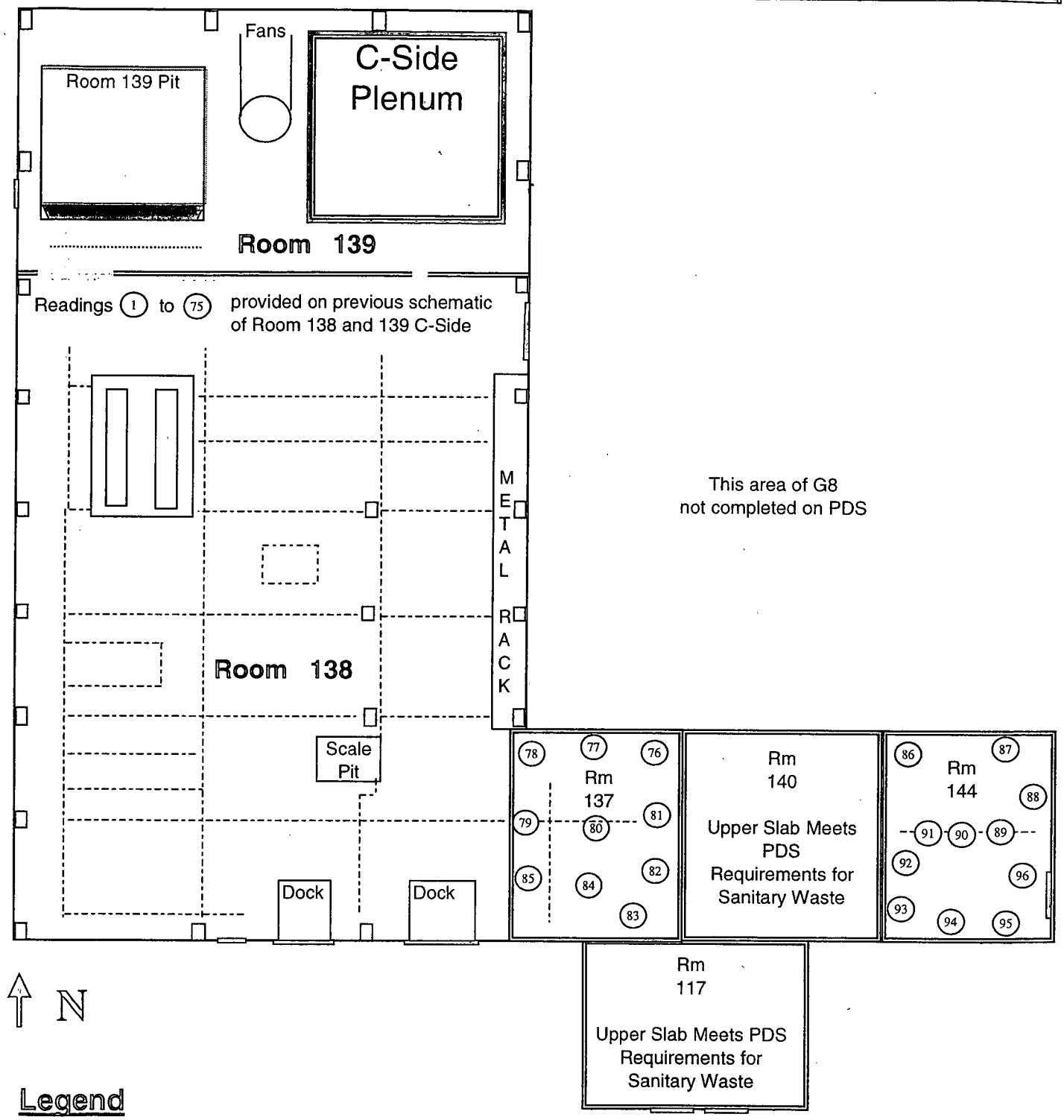
Building 883 G8 Office Area South and Room 144 Slab Contamination Data Summary

PRE Fixative

Survey #	Room or Survey Location	Beta Accessible Fixed dpm/100cm^2
76	Room 137 Slab	40,000
77	Room 137 Slab	6,000
78	Room 137 Slab	10,000
79	Room 137 Slab	12,000
80	Room 137 Slab	25,000
81	Room 137 Slab	5,000
82	Room 137 Slab	10,000
83	Room 137 Slab	9,000
84	Room 137 Slab	10,000
85	Room 137 Slab	10,000
86	Room 144 Slab	< 745
87	Room 144 Slab	<745
88	Room 144 Slab	< 745
89	Room 144 Slab	2,350
90	Room 144 Slab	1,775
91	Room 144 Slab	4,140
92	Room 144 Slab	4,790
93	Room 144 Slab	3,320
94	Room 144 Slab	< 745
95	Room 144 Slab	< 745
96	Room 144 Slab	< 745

Building 883 G8 Office Area South and Room 144 Slab Summary Data



Legend

Removable Alpha & Removable Beta Contamination Meets PDS Limits on C-Side Slab, Pit Areas, Room 137 Slab, and Room 144 Slab. Room 140 and 117 Slabs meet PDS limits. Several grouted sanitary waste drains will be handled as LLW.

See Attached Bldg. 883 G8 Office Area South and Room 144 Slab Contamination Data Summary for Fixed Levels.

- - - Denotes Cracks and Seams in Concrete Slab

Building 883 C-Side Slab and Pit Summary Data

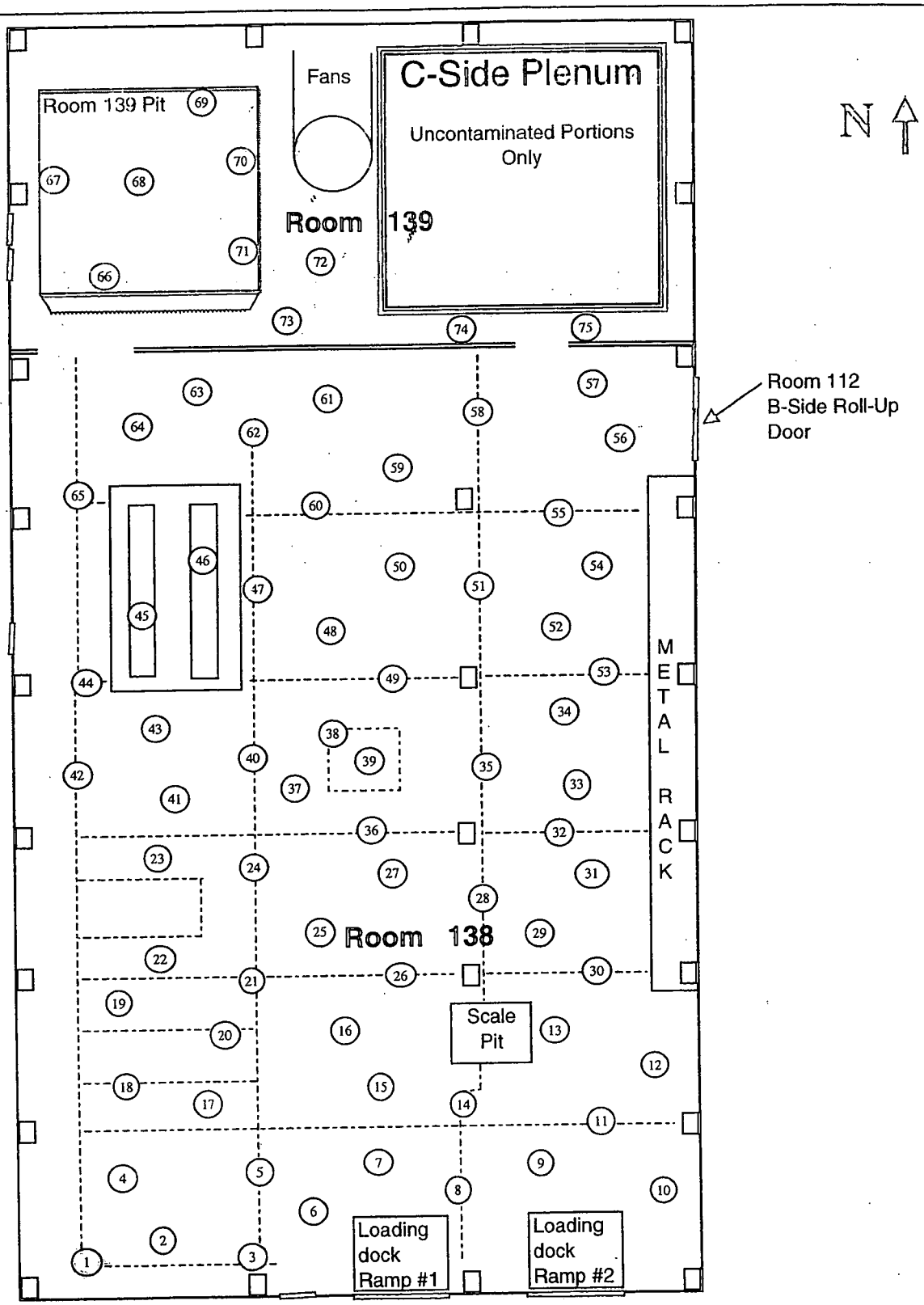
PRE-Fixative

Survey #	Room or Survey Location (See Schematic)	Beta Accessible Fixed dpm/100cm^2
1	Bldg. 883 C-Side, Room 138	4,750
2	Bldg. 883 C-Side, Room 138	750
3	Bldg. 883 C-Side, Room 138	70,000
4	Bldg. 883 C-Side, Room 138	16,000
5	Bldg. 883 C-Side, Room 138	5,500
6	Bldg. 883 C-Side, Room 138	2,000
7	Bldg. 883 C-Side, Room 138	1,000
8	Bldg. 883 C-Side, Room 138	650
9	Bldg. 883 C-Side, Room 138	2,750
10	Bldg. 883 C-Side, Room 138	1,000
11	Bldg. 883 C-Side, Room 138	120,000
12	Bldg. 883 C-Side, Room 138	750
13	Bldg. 883 C-Side, Room 138	4,000
14	Bldg. 883 C-Side, Room 138	650
15	Bldg. 883 C-Side, Room 138	580
16	Bldg. 883 C-Side, Room 138	3,250
17	Bldg. 883 C-Side, Room 138	580
18	Bldg. 883 C-Side, Room 138	275,000
19	Bldg. 883 C-Side, Room 138	1,500
20	Bldg. 883 C-Side, Room 138	16,000
21	Bldg. 883 C-Side, Room 138	145,000
22	Bldg. 883 C-Side, Room 138	2,000
23	Bldg. 883 C-Side, Room 138	1,000
24	Bldg. 883 C-Side, Room 138	21,000
25	Bldg. 883 C-Side, Room 138	580
26	Bldg. 883 C-Side, Room 138	200,000
27	Bldg. 883 C-Side, Room 138	1,000
28	Bldg. 883 C-Side, Room 138	1,250
29	Bldg. 883 C-Side, Room 138	580
30	Bldg. 883 C-Side, Room 138	41,000
31	Bldg. 883 C-Side, Room 138	2,375
32	Bldg. 883 C-Side, Room 138	130,000
33	Bldg. 883 C-Side, Room 138	875
34	Bldg. 883 C-Side, Room 138	580
35	Bldg. 883 C-Side, Room 138	580
36	Bldg. 883 C-Side, Room 138	46,000
37	Bldg. 883 C-Side, Room 138	580
38	Bldg. 883 C-Side, Room 138	2,850
39	Bldg. 883 C-Side, Room 138	580
40	Bldg. 883 C-Side, Room 138	131,000
41	Bldg. 883 C-Side, Room 138	1,250
42	Bldg. 883 C-Side, Room 138	11,000
43	Bldg. 883 C-Side, Room 138	5,000
44	Bldg. 883 C-Side, Room 138	17,000
45	Bldg. 883 C-Side, Room 138	580

Building 883 C-Side Slab and Pit Summary Data

Survey #	Room or Survey Location (See Schematic)	Beta Accessible Fixed dpm/100cm^2
46	Bldg. 883 C-Side, Room 138	580
47	Bldg. 883 C-Side, Room 138	5,250
48	Bldg. 883 C-Side, Room 138	580
49	Bldg. 883 C-Side, Room 138	16,000
50	Bldg. 883 C-Side, Room 138	580
51	Bldg. 883 C-Side, Room 138	8,000
52	Bldg. 883 C-Side, Room 138	580
53	Bldg. 883 C-Side, Room 138	11,000
54	Bldg. 883 C-Side, Room 138	2,250
55	Bldg. 883 C-Side, Room 138	51,000
56	Bldg. 883 C-Side, Room 138	25,000
57	Bldg. 883 C-Side, Room 138	1,125
58	Bldg. 883 C-Side, Room 138	19,000
59	Bldg. 883 C-Side, Room 138	580
60	Bldg. 883 C-Side, Room 138	18,000
61	Bldg. 883 C-Side, Room 138	14,000
62	Bldg. 883 C-Side, Room 138	21,000
63	Bldg. 883 C-Side, Room 138	2,500
64	Bldg. 883 C-Side, Room 138	1,250
65	Bldg. 883 C-Side, Room 138	7,000
66	Bldg. 883 C-Side, Room 139	45,000
67	Bldg. 883 C-Side, Room 139	56,000
68	Bldg. 883 C-Side, Room 139	360,000
69	Bldg. 883 C-Side, Room 139	39,000
70	Bldg. 883 C-Side, Room 139	4,500
71	Bldg. 883 C-Side, Room 139	15,000
72	Bldg. 883 C-Side, Room 139	7,000
73	Bldg. 883 C-Side, Room 139	6,000
74	Bldg. 883 C-Side, Room 139	5,000
75	Bldg. 883 C-Side, Room 139	9,000

Building 883 C-Side Schematic



Legend

Removable Alpha and Removable Beta Contamination Meets PDS Limits on C-Side slab and Pit Areas

- - - - - - - - Denotes Cracks and Seams in Concrete Slab

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE electra
Model	2929	Model	N/A	Model	DP-6
Serial #	99042	Serial #	N/A	Serial #	1417
Cal Due	10/26/04	Cal Due	N/A	Cal Due	3/23/05
Bkg.	0.2 cpm α	Bkg.	N/A cpm α	Bkg.	1 cpm α
Efficiency	34.9 %	Efficiency	N/A %	Efficiency	20.5 %
MDA	18 dpm α	MDA	N/A dpm α	MDA	36 dpm α
Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE electra
Model	2929	Model	N/A	Model	DP-6
Serial #	99042	Serial #	N/A	Serial #	1417
Cal Due	10/26/04	Cal Due	N/A	Cal Due	3/23/05
Bkg.	87.2 cpm β	Bkg.	N/A cpm β	Bkg.	740 cpm
Efficiency	39.0 %	Efficiency	N/A %	Efficiency	22.0
MDA	205 dpm β	MDA	N/A dpm β	MDA	745 dpm

[redacted]

Survey tracking # 883-04-05

Survey type: Fixed/removable contamination

Building: B-883

Location: Rm. 138 east wall (west side of wall)

Purpose: Characterize wall

RWP #: N/A

Date: 10/21/04 Time: 1100

Comments: Isotope of concern is Depleted Uranium. Instrument Beta efficiencies listed above are the prescribed default values for D.U., calibrated efficiency for Electra #1417 was-28.3%, for 2929-39.0%. Taped seams on north end of shelf unit was surveyed only for removable and left in place. The remainder of the area in survey was 100% scanned.

	Print name	Signature	Emp. #
RCT:	N/A	N/A	N/A
RCT:	N/A	N/A	N/A

SURVEY RESULTS

ID #	LOCATION/DESCRIPTION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	Beta Swipe dpm/100cm2	Beta Direct dpm/100cm2	Beta Wipe dpm/wipe
1-25	On shelf unit	<18	N/A	N/A	<205	<5000	<745
26-49	On transite wall	<18	N/A	N/A	<205	<5000	<745
50-53	On roll-up door	<18	N/A	N/A	<205	<5000	<745
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 11/16/0 [redacted]

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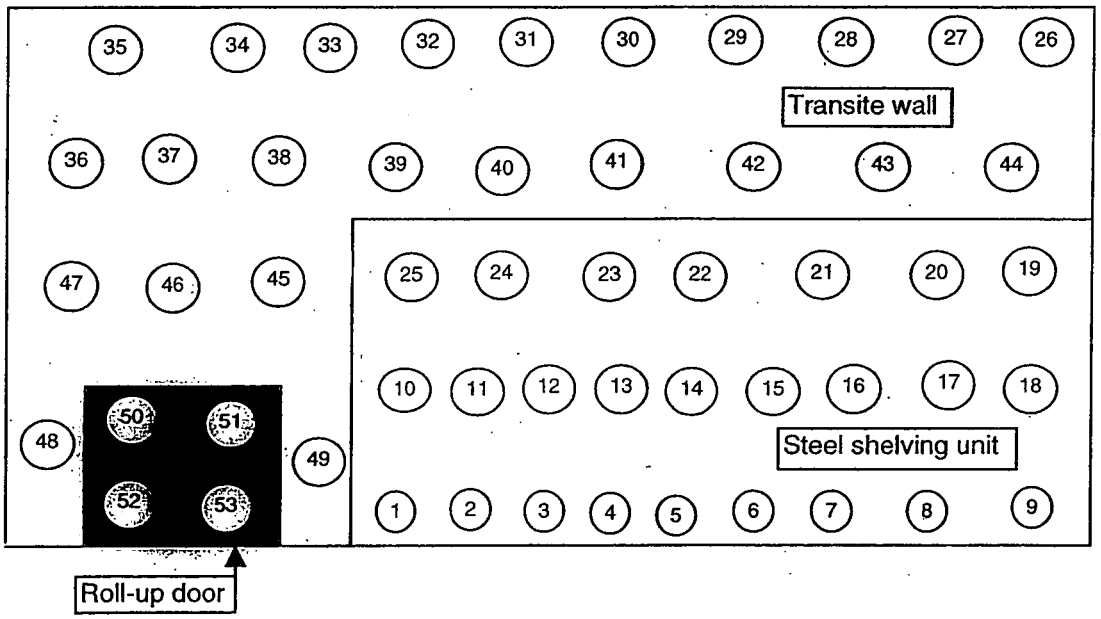
COPY

Drawing Showing Survey Points

Room 138 east wall (View in this image is looking from west to east)



North

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COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	662
Cal Due	*10/26/04*	Cal Due	N/A	Cal Due	3/30/05
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	1.0 cpmα
Efficiency	34.10 %	Efficiency	33.00 %	Efficiency	21.10 %
MDA	18 dpmα	MDA	20 dpmα	MDA	35 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	662
Cal Due	10/26/04	Cal Due	N/A	Cal Due	3/30/05
Bkg	90.5 cpmβ	Bkg	N/A cpmβ	Bkg	661.0 cpmβ
Efficiency	34.80 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	556 dpmβ

Survey Tracking # 883-04-06

Survey Type: Contamination

Building: 883

Location: Rm 139 East Wall (west side of wall)

Purpose: Characterization

RWP #: N/A

[redacted]

PRN/REN #: N/A

Comments: Nuclide of concern was Depleted Uranium (DU). Survey performed to characterize contamination levels prior to performing D & D work in this area. A 100% scan of all accessible areas was performed on wall surfaces.Beta efficiencies listed reflect correction for DU. Calibrated efficiency for 2929 was 39.0% and for Electra #662 - 30.4%

SURVEY RESULTS

	LOCATION	ALPHA			BETA		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1-50	East Wall of Rm 139	<18	NA	<300	<205	<5000	<556
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	[redacted]					

Date Reviewed: 11/16/04 **RS Supervisio** [redacted]

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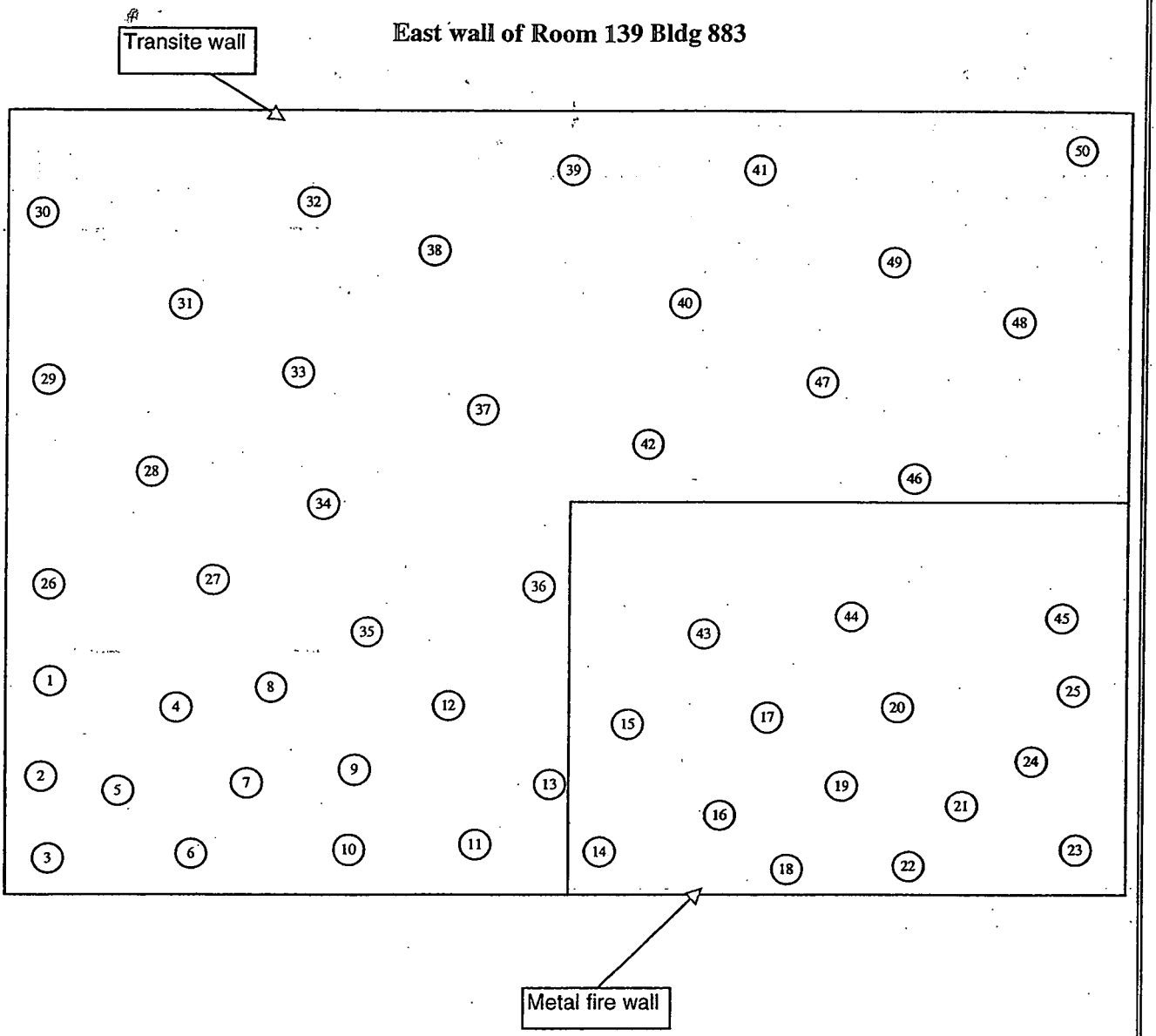
COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

East wall of Room 139 Bldg 883



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POST-FIXATIVE LLW SURVEYS

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	N/A %
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N./A
Bkg	80.1 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A %
MDA	177 dpmβ	MDA	200 dpmβ	MDA	N/A dpmβ

Survey Tracking # 883-04-S1321

Survey Type: Contamination

Building: 883

Location: G-6, C-Side, Rm 138 & 139

Purpose: Routine (POST) Fix

RWP #: N/A

Date: 1/22/05 Time: 1000

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp #

PRN/REN # : N/A

Comments: Nuclide of concern is Depleted Uranium only. Default efficiencies and MDC's for DU was used. Survey performed as Routine surveys.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
2	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
3	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
4	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
5	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
6	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
7	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
8	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
9	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
10	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
11	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
12	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
13	Floor, Rm 138	<18	N/A	N/A	<177	N/A	N/A
14	Floor, Rm 139	<18	N/A	N/A	<177	N/A	N/A
15	Floor, Rm 139	<18	N/A	N/A	<177	N/A	N/A
16	Floor, Rm 139	<18	N/A	N/A	<177	N/A	N/A
17	Floor, Rm 139	<18	N/A	N/A	<177	N/A	N/A
18	Floor, Rm 139	<18	N/A	N/A	<177	N/A	N/A
19	Floor, Rm 139	<18	N/A	N/A	<177	N/A	N/A
20	Floor, Rm 139	<18	N/A	N/A	<177	N/A	N/A

Date Reviewed: 1/22/05 **RS Supervision:** Scott Mahoney / [signature] / 431384

Print Name / Signature / Emp. #

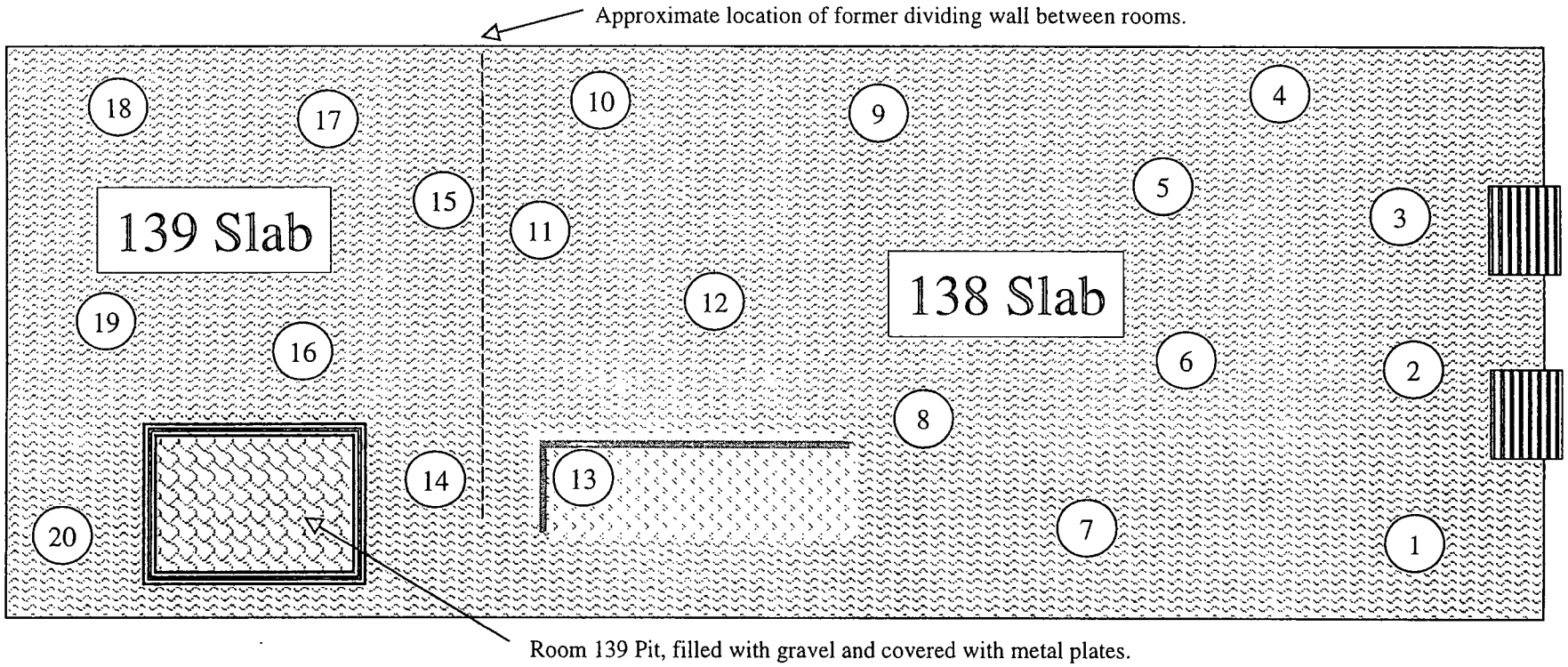
Bldg. 883, G6 C-Side

Post Paint Slab Map

Survey Tracking # 04-883-S1321

N

Note - this survey performed in addition to routine swipes on Room 138 and 139 slab areas. Slab areas were previously swiped before Contamination Area deposting and transite removal activities. Slabs have been posted as a Fixed Contamination Area.



Swipe surveys taken at approximate sampling locations shown on slab areas.

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ATTACHMENT B-4

North Side LLW Surveys

PRE-FIXATIVE LLW SURVEYS

Building 883 Northside Floor and Walls
Post-Decon Contamination Data Summary

PRE- Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	Room 108 North Wall	205	3,000
2	Room 108 North Wall	476	1,800
3	Room 107 North Wall	205	1,859
4	Room 107 North Wall Beam	440	2,400
5	Room 107 Roll-Up Door	205	543
6	Room 106 North Wall	205	24,000
7	Room 106 North Wall	205	9,000
8	Room 106 North Wall	205	24,000
9	Room 106 East Wall	205	9,000
10	Room 106 East Wall	205	50,000
11	Room 106 East Wall	205	375,000
12	Room 106 East Wall Beam	205	24,000
13	Room 106 Airbox East Wall	205	375,000
14	Room 106 South Wall	205	9,000
15	Room 106 South Wall	205	543
16	Room 106 Wall Beam	732	182,000
17	Room 107 South Wall	205	543
18	Room 107 South Wall Ledge	504	6,000
19	Room 108 South Wall	205	1,800
20	Room 108 South Wall	476	3,000
21	Room 108 West Wall	300	543
22	Room 108 West Duct	440	50,000
23	Room 108 West Wall Beam	292	7,900
24	Room 108 West Wall	205	543
25	Room 108 West Wall Beam	364	2,100
26	Room 108 Floor	205	6,600
27	Room 108 Floor	292	12,000
28	Room 108 Floor	205	7,000
29	Room 108 Airbox	300	35,000
30	Room 108 Airbox	205	7,000
31	Room 108 Airbox Top	400	10,000
32	Room 108 Floor	361	12,000
33	Room 108 Floor Crack	300	25,000
34	Room 108 Floor	205	20,000
35	Room 107 Floor	292	6,000

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Building 883 Northside Floor and Walls
Post-Decon Contamination Data Summary

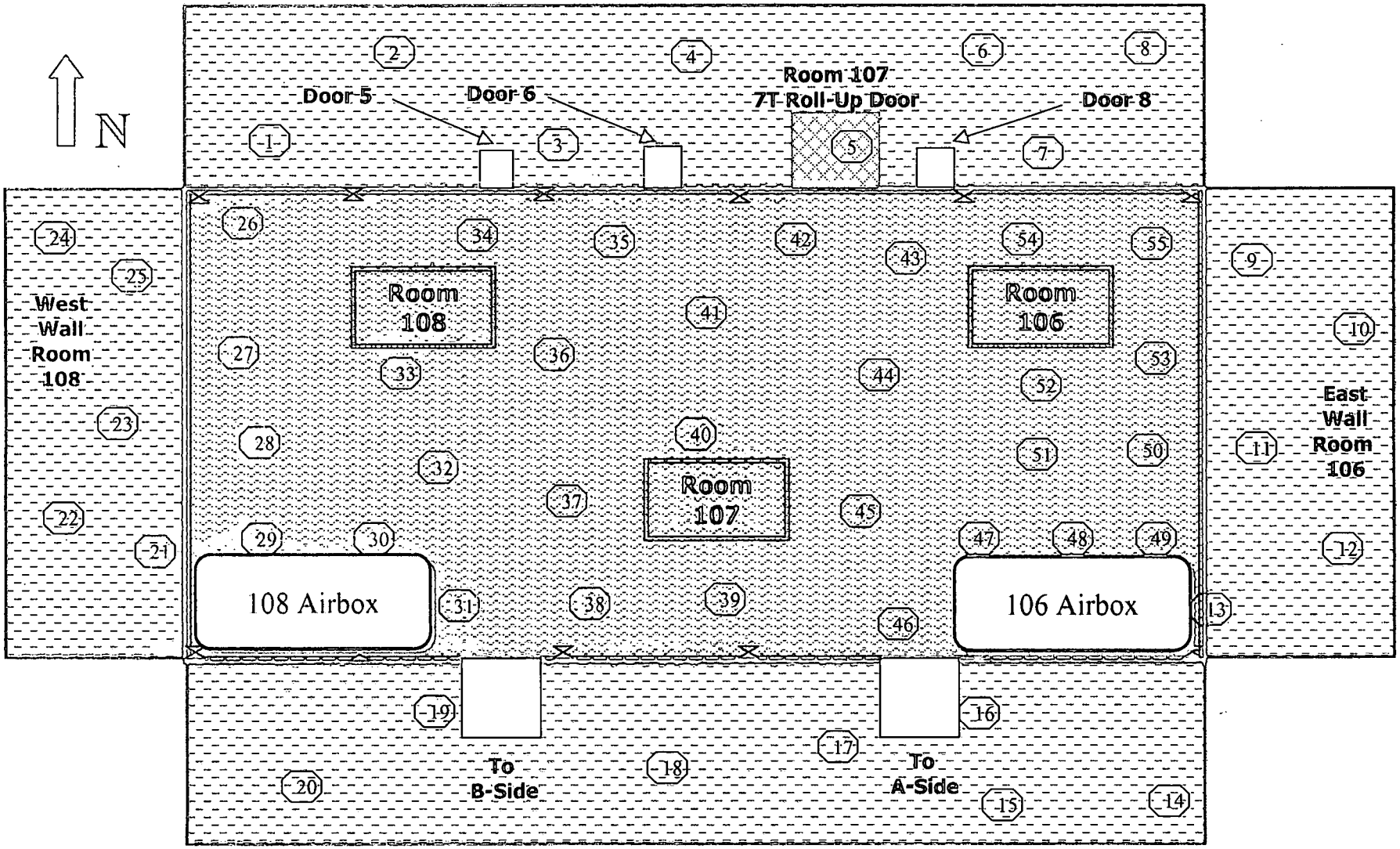
Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
36	Room 107 Floor	292	20,000
37	Room 107 Floor	*205*	12,000
38	Room 107 Floor Crack	364	10,000
39	Room 107 Floor	*205*	7,000
40	Room 107 Floor Crack	364	50,000
41	Room 107 Floor	241	15,000
42	Room 106 Floor	*205*	10,000
43	Room 106 Floor Crack	*205*	25,000
44	Room 106 Floor	*205*	24,000
45	Room 106 Floor Crack	600	68,000
46	Room 106 Floor	*205*	15,000
47	Room 106 Airbox Wall	1,200	10,000
48	Room 106 Airbox Top	*205*	250,000
49	Room 106 Airbox Duct	1,500	500,000
50	Room 106 Floor	*205*	12,000
51	Room 106 Floor Crack	504	57,000
52	Room 106 Floor Crack	*205*	60,000
53	Room 106 Floor	*205*	12,000
54	Room 106 Floor	364	2,000
55	Room 106 Floor	*205*	3,000

Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	1,500	500,000
Mean (Average)	323	44,840
n	55	55
Standard Deviation	236	100,281

RE Comments	
G. M. Aldrich (303) 994-0942	Readings throughout the 106, 107 and 108 rooms were broadly representative of decontaminated surfaces. All readings represent post-pressure wash and/or post-wipedown levels. Readings were biased towards highest fixed contamination levels remaining. Results in *italics* represent Minimum Detectable Activity (MDA) readings on instrumentation.

Bldg. 883 Northside Areas

Post Pressure Wash Floor, Walls & Equipment Characterization Map



Swipe and direct surveys taken at approximate sampling locations shown. See attached Contamination Data Summary sheets for activity levels seen and description of various overhead components and surfaces surveyed.

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Building 883 Northside Overhead and Stairs
Post Decon Contamination Data Summary

PRE- Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	Room 108 Overhead	264	3,000
2	Room 108 Overhead Beam	328	7,500
3	Room 107 Overhead Beam	260	1,000
4	Room 106 Overhead Panel	380	3,722
5	Room 106 Overhead Beam	256	1,682
6	Room 106 Overhead Panel	1,450	41,473
7	Room 108 Overhead	292	2,000
8	Room 108 Overhead Beam	280	1,800
9	Room 107 Overhead Panel	*205*	1,000
10	Room 106 Overhead Beam	332	4,573
11	Room 106 Overhead Pipe Horizontal	328	36,524
12	Room 106 Overhead Panel	360	22,127
13	Room 108 Overhead Pipe	440	5,000
14	Room 108 Overhead Panel	476	10,000
15	Room 107 Overhead Pipe	*205*	3,000
16	Room 107 Overhead	*205*	6,000
17	Room 106 Overhead Panel	732	182,000
18	Room 106 Overhead Pipe Horizontal	532	277,550
19	Room 106 Overhead Beam	604	159,250
20	Room 106 Overhead Duct	1,276	523,250
21	Stairwell to Room 207 - Stair	256	2,840
22	Stairwell to Room 207- Wall	*205*	2,405
23	Stairwell to Room 207 - Rail	256	3,550
24	Stairwell to Room 207 - Landing	360	9,000
25	Stairwell to Room 207- Wall	*205*	3,260
26	Stairwell to Room 207 - Beam Horizontal	256	4,005
27	Stairwell to Room 207 - Rail	*205*	3,840
28	Stairwell to Room 6 - Stair	241	1,035
29	Stairwell to Room 6 Landing	360	5,070
30	Stairwell to Room 6 - Adjacent Wall	*205*	5,035

Building 883 Northside Overhead and Stairs Post Decon Contamination Data Summary

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
31	Stairwell to Room 6 - Stair	241	5,028
32	Stairwell to Room 6 - Duct on Wall	256	4,230
33	Stairwell to Room 6 - Bottom Landing	*205*	9,000
34	Stairwell to Room 6 - Wall	256	2,000
35	Stairwell to Room 6 - Rail	*205*	3,840
	No Further Entries		

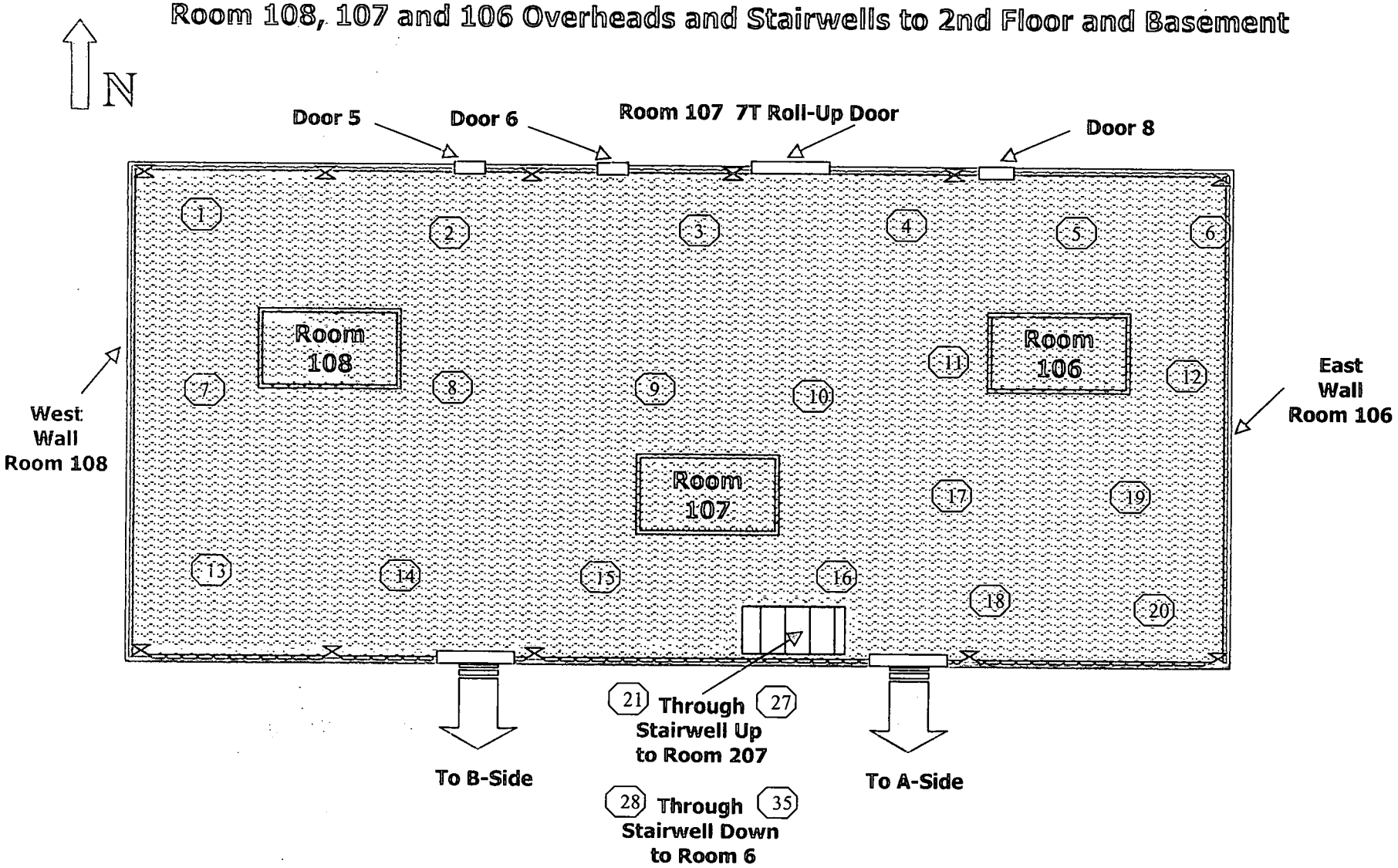
Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	1,450	523,250
Mean (Average)	369	38,760
n	35	35
Standard Deviation	277	103,027

RE Comments	
G. M. Aldrich (303) 994-0942	Readings throughout the Room 106, 107 and 108 overhead surfaces and stair locations were broadly representative of decontaminated surfaces. All readings represent post-pressure wash and/or post-wipedown levels. Readings were generally biased towards highest fixed contamination levels seen during D&D, and especially focused on areas known to have previously had elevated contamination in the overhead locations and components of Room 106. Readings in *italics* represent Minimum Detectable Activity (MDA) levels for particular instrumentation used.

Bldg. 883 Northside Areas

Post Pressure Wash Overhead & Stairs Characterization Map

Room 108, 107 and 106 Overheads and Stairwells to 2nd Floor and Basement



Swipe and direct surveys taken at approximate sampling locations shown. See attached Contamination Data Summary sheets for activity levels seen and description of various overhead components and stairwell surfaces surveyed.

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Building 883 G-9 Post-Decontamination Floor and Wall Areas Contamination Data Summary

Pre-Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	Room 202 Floor	172	5,504
2	Room 202 Wall	172	2,752
3	Room 202 Racks	172	560
4	Room 202 East Fan Housing	172	560
5	Room 202 Piping	172	560
6	Room 202 Louvers	172	560
7	Room 202 Supply Air Inlet Dust Filter Racks	172	560
8	Room 202 Supply Air Inlet Dust Filter Racks	172	2,293
9	Room 202 Wall	172	1,834
10	Room 202 Floor	172	10,000
11	Room 203 Floor	172	2,752
12	Room 203 Walls	172	560
13	Room 203 Floor	172	1,834
14	Room 203 Wall	172	560
15	Room 203 Piping and Horizontals	172	2,293
16	Room 203 Floor	172	5,000
17	Room 203 Wall	172	3,669
18	Room 203 Supply Air Inlet Dust Filter Racks	172	560
19	Room 203 Supply Air Inlet Dust Filter Racks	172	560
20	Room 203 Floor	172	3,211
21	Room 201 Floor	172	2,000
22	Room 201 Floor	172	5,000
23	Room 201 Floor	172	10,000
24	Room 201 Wall	172	560
25	Room 201 Floor	172	2,000
26	Room 201 Floor	172	2,752
27	Room 201 East Load Out Area	172	10,000
28	Room 201 East Load Out Area	172	6,000
29	Room 207 Floor	172	2,000
30	Room 207 Floor	172	3,669
31	Room 207 Wall	172	560
32	Room 207 Equipment	172	5,504
33	Room 207 Wall	172	560
34	Room 207 Wall	172	560
35	Room 207 Floor	172	560

Building 883 G-9 Post-Decontamination Floor and Wall Areas Contamination Data Summary

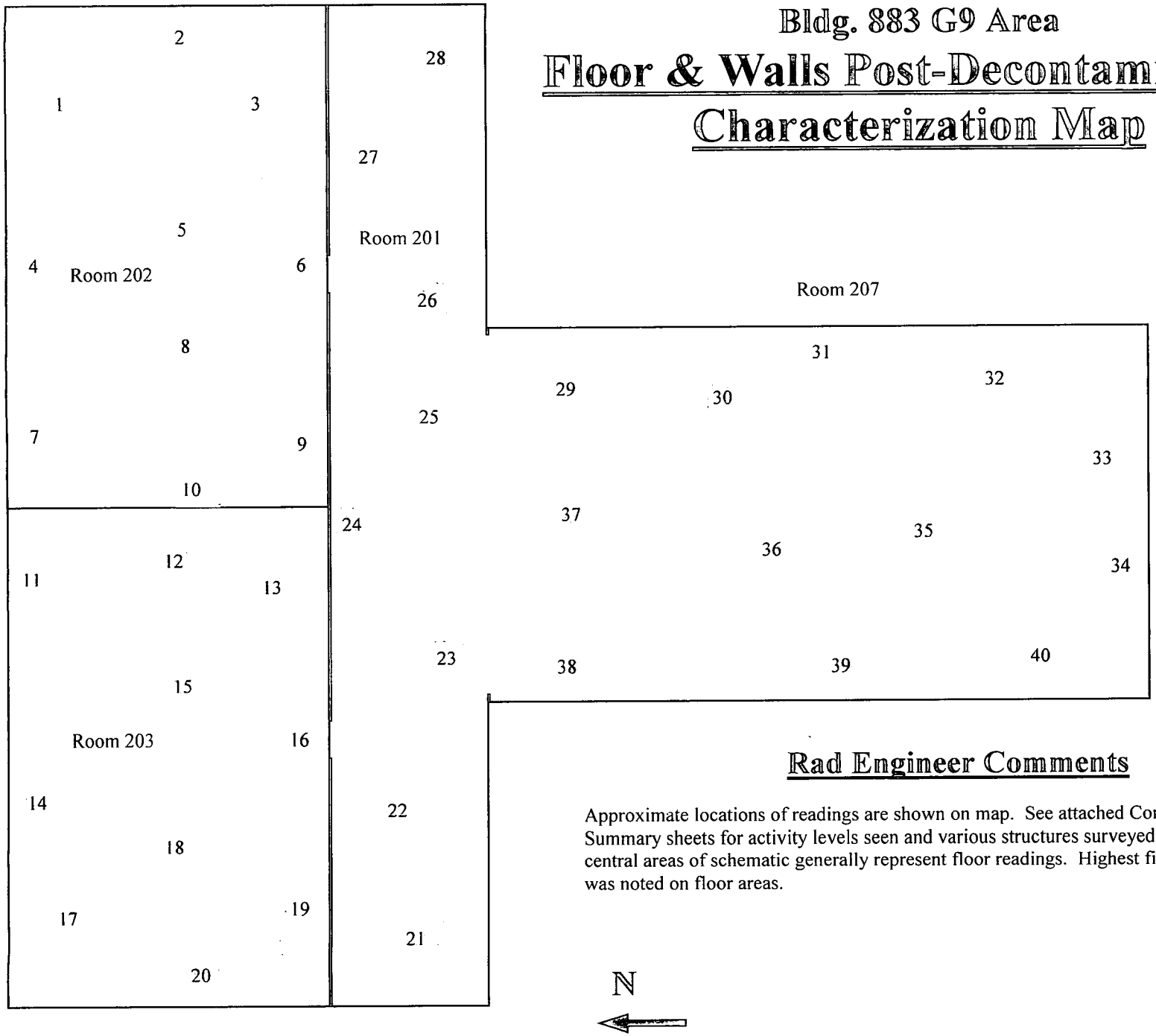
Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
36	Room 207 Piping	*172*	*560*
37	Room 207 Wall	*172*	*560*
38	Room 207 Equipment	*172*	3,669
39	Room 207 Wall	*172*	*560*
40	Room 207 Floor	*172*	3,211
	No further entries		

Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	172	10,000
Mean (Average)	172	2,662
n	40	40
Standard Deviation	0	2,687

RE Comments	
G. M. Aldrich (303) 994-0942	Readings around G9 areas were broadly representative of floors, walls, and miscellaneous floor-level piping and steam system equipment. Results in italics represent MDA readings. These surveys were all taken after decontamination activities, and before fixative application.

Bldg. 883 G9 Area

Floor & Walls Post-Decontamination Characterization Map



Rad Engineer Comments

Approximate locations of readings are shown on map. See attached Contamination Data Summary sheets for activity levels seen and various structures surveyed. Readings in the central areas of schematic generally represent floor readings. Highest fixed contamination was noted on floor areas.

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Building 883 G-9 Post-Decontamination Overhead and Equipment Contamination Data Summary

PRE-Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	Room 202 East Fan Housing	184	1,682
2	Room 202 East Fan Housing	256	2,045
3	Room 202 Beam	184	1,859
4	Room 202 Cellulose Supply Filter Media	184	2,659
5	Room 202 High Wall	184	555
6	Room 202 Overhead Structure	184	555
7	Room 202 Overhead Panel	184	555
8	Room 202 High Wall	184	555
9	Room 202 Beam/Horizontal Surface	256	1,995
10	Room 202 Overhead Panel	184	555
11	Room 203 West Fan Housing	280	2,473
12	Room 203 West Fan Housing	184	2,436
13	Room 203 Beam/Horizontal Surface	276	2,705
14	Room 203 Overhead Panel	184	555
15	Room 203 Wall	184	3,050
16	Room 203 Equipment	184	2,491
17	Room 203 Overhead Structure	236	3,000
18	Room 203 Supply Inlet Frame	184	2,845
19	Room 203 Rack	184	2,845
20	Room 203 Cellulose Supply Filter Media	268	2,659
21	Room 201 Overhead Area	184	555
22	Room 201 High Wall	184	555
23	Room 201 Overhead Structure	184	555
24	Room 201 Vertical Surface	312	3,400
25	Room 201 High Pipe/Horizontal Surface	184	555
26	Room 201 Overhead Panel	184	555
27	Room 201 East Load-Out Area Beam/Panel	333	8,182
28	Room 201 East Wall Horizontal	256	3,323
29	Room 207 Overhead Area Horizontal	184	555
30	Room 207 Supply Duct Internal	184	555
31	Room 207 Steam Piping	184	2,559
32	Room 207 Overhead Panel	184	555
33	Room 207 Steam Piping	284	2,455
34	Room 207 Supply Duct Internal	184	555
35	Room 207 Overhead High Wall	184	555

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Building 883 G-9 Post-Decontamination Overhead and Equipment Contamination Data Summary

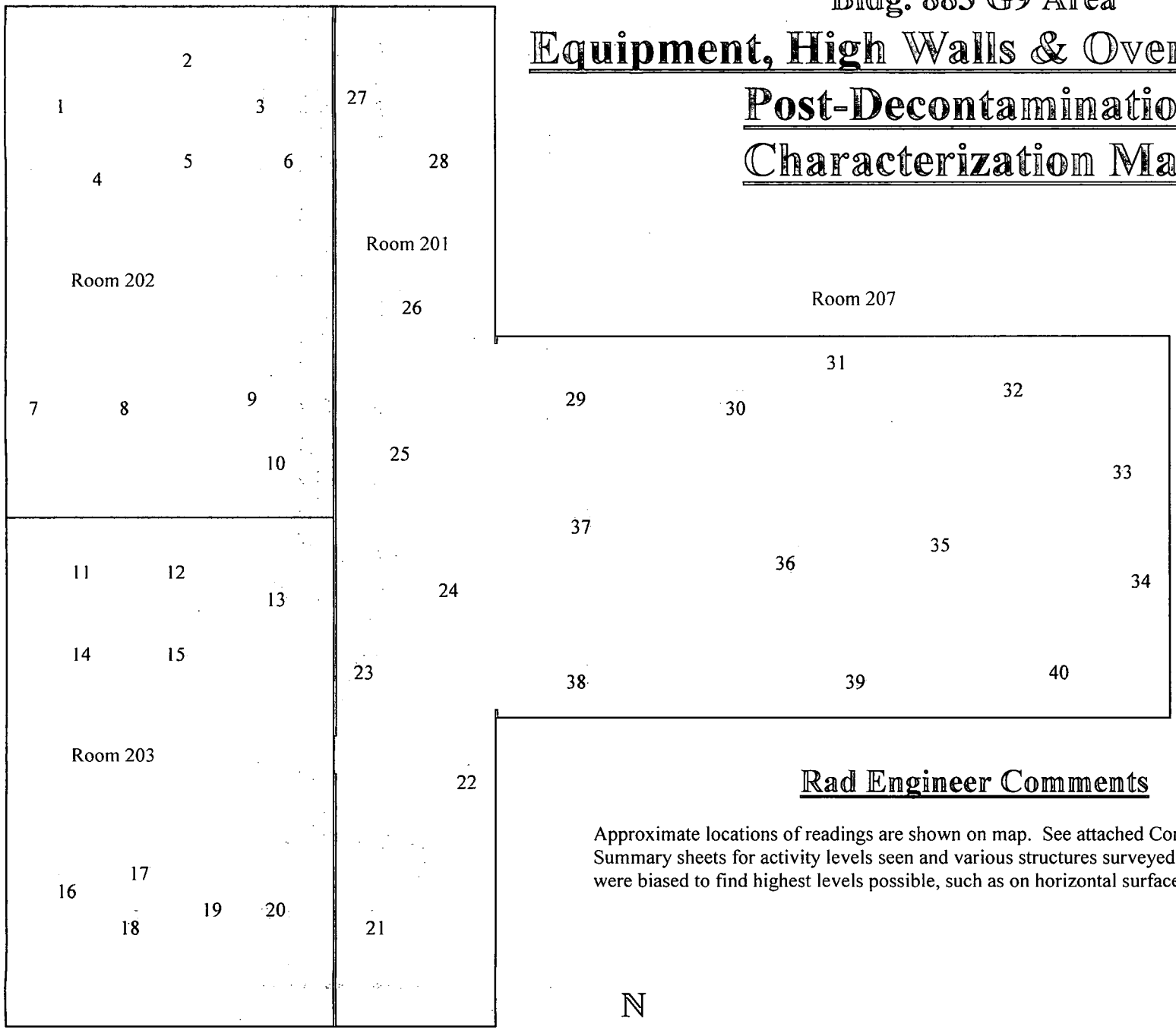
Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
36	Room 207 Wall Beam	300	3,582
37	Room 207 Supply Duct External	*184*	*555*
38	Room 207 Overhead Piping Horizontal	*184*	*555*
39	Room 207 Overhead Area Horizontal	*184*	*555*
40	Room 207 Supply Duct Internal	*184*	*555*
	No further entries		

Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	333	8,182
Mean (Average)	210	1,734
n	40	40
Standard Deviation	45	1,515

RE Comments	
G. M. Aldrich (303) 994-0942	Readings throughout the G9 overhead areas were broadly representative of remaining uncontaminated systems, equipment and surfaces within overhead areas. Results in *italics* represent Minimum Detectable Activity (MDA) readings on instrumentation. These surveys were all performed after contaminated system and ACM removal activities were complete in the G9 overhead areas.

Bldg. 883 G9 Area

Equipment, High Walls & Overhead Areas Post-Decontamination Characterization Map



Rad Engineer Comments

Approximate locations of readings are shown on map. See attached Contamination Data Summary sheets for activity levels seen and various structures surveyed. Readings taken were biased to find highest levels possible, such as on horizontal surfaces, etc.

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POST-FIXATIVE LLW SURVEYS

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	N/A
Serial #	147866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	34.10 %	Efficiency	33.00 %	Efficiency	N/A %
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	N/A
Serial #	147866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	76.5 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	N/A %
MDA	169 dpmβ	MDA	200 dpmβ	MDA	N/A dpmβ

Survey Tracking # 883-04-S1245

Survey Type: Contamination

Building: 883

Location: Room 106

Purpose: Post Paint Survey

RWP #: N/A

Date: 1/7/05 Time: 1100

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is depleted uranium . Survey performed to assess removable contamination in painted areas. Correction factors for DU applied.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	FLOOR Room 106, Near Door	<18	N/A	N/A	312	N/A	N/A
2	FLOOR Room 106, Mid West Side	<18	N/A	N/A	288	N/A	N/A
3	FLOOR Room 106, Far West Side	<18	N/A	N/A	332	N/A	N/A
4	FLOOR Room 106, North Near Wall	<18	N/A	N/A	400	N/A	N/A
5	FLOOR Room 106, Mid West Side	<18	N/A	N/A	300	N/A	N/A
6	FLOOR Room 106, Mid Near Air Box	<18	N/A	N/A	252	N/A	N/A
7	FLOOR Room 106, East Wall	<18	N/A	N/A	276	N/A	N/A
8	FLOOR Room 106, Mid East Wall	<18	N/A	N/A	276	N/A	N/A
9	WALL Room 106, South Wall	<18	N/A	N/A	272	N/A	N/A
10	WALL Room 106, Wall West Far	<18	N/A	N/A	280	N/A	N/A
11	WALL Room 106, Wall West Near Door	<18	N/A	N/A	300	N/A	N/A
12	WALL Room 106, North Wall Near Door	<18	N/A	N/A	304	N/A	N/A
13	WALL Room 106, North Wall Mid	<18	N/A	N/A	324	N/A	N/A
14	WALL Room 106, East Wall Near	<18	N/A	N/A	312	N/A	N/A
15	WALL Room 106, East Wall Far	<18	N/A	N/A	308	N/A	N/A
16	WALL Room 106, South East	<18	N/A	N/A	268	N/A	N/A
17	Behind Air Box, West Side	<18	N/A	N/A	320	N/A	N/A
18	Behind Air Box on Wall, West Side	<18	N/A	N/A	288	N/A	N/A
19	Behind Air Box, East Side	<18	N/A	N/A	356	N/A	N/A
20	Behind Air Box on Wall, East Side	<18	N/A	N/A	400	N/A	N/A

Date Reviewed: 1/10/05 **RS Supervision:** [redacted]

COPY

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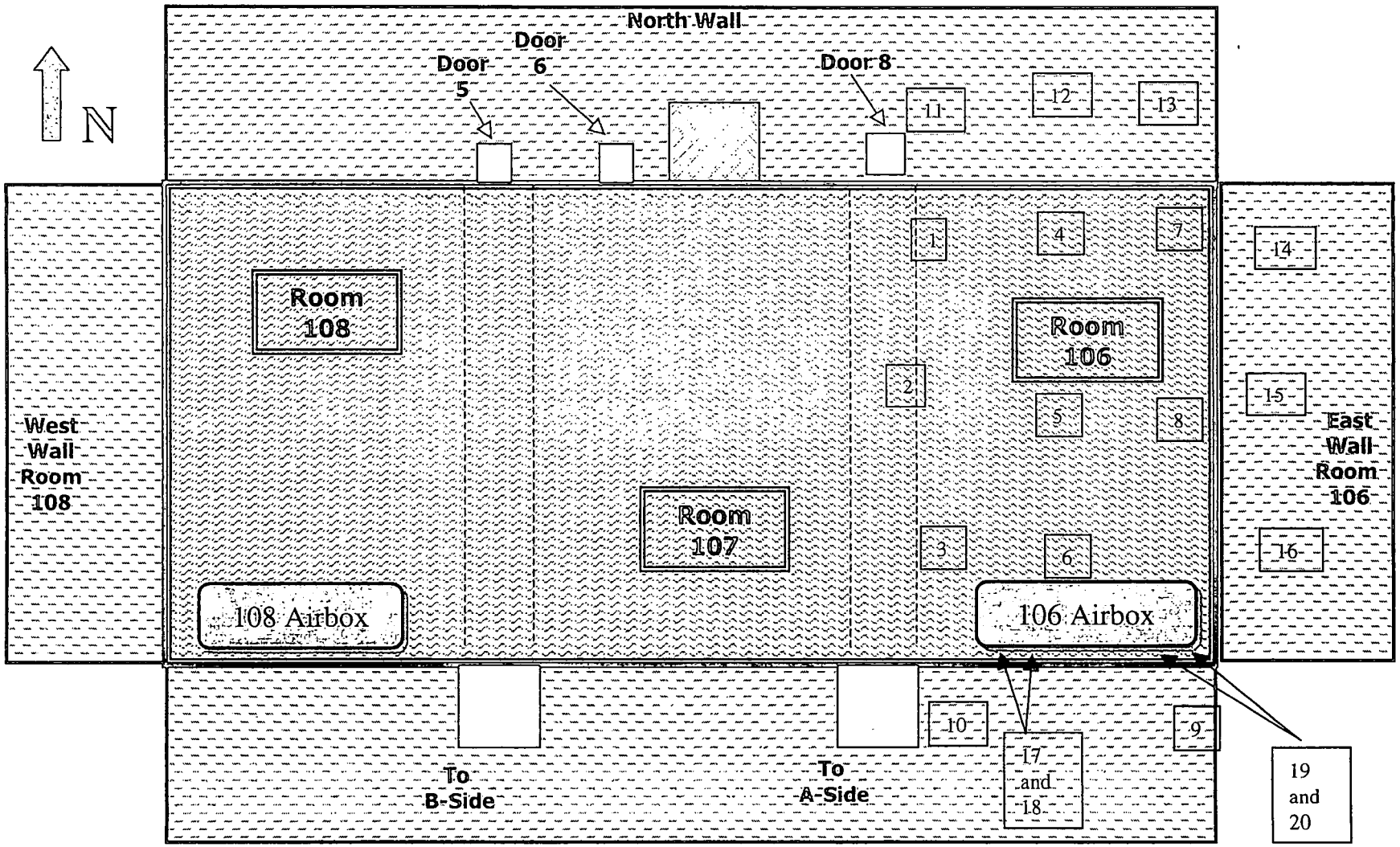
Bldg. 883 Rooms On Northside

Post Paint Swipe Coverage

Survey # 883-04-S1245



581

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Ludlum	Mfg.	NE Electra
Model	2929	Model	2929	Model	DP-6
Serial #	176102	Serial #	152277	Serial #	1410
Cal Due	3/14/05	Cal Due	7/2/05	Cal Due	1/26/05
Bkg	0.0 cpmα	Bkg	0.0 cpmα	Bkg	2.0 cpmα
Efficiency	0.00 %	Efficiency	0.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	18 dpmα	MDA	42 dpmα
Mfg.	Ludlum	Mfg.	Ludlum	Mfg.	NE Electra
Model	2929	Model	2929	Model	DP-6
Serial #	176102	Serial #	152277	Serial #	1410
Cal Due	3/14/05	Cal Due	7/2/05	Cal Due	1/26/05
Bkg	71.2 cpmβ	Bkg	80.1 cpmβ	Bkg	486.0 cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	205 dpmβ	MDA	478 dpmβ

Survey Tracking # 880-04-1263

Survey Type: Contamination

Building: 883

Location: Room 106 (Post - Fixative)

Purpose: Survey beams on North Side of Room

RWP #: N/A

Date: 1/13/05 Time: 11:00

[redacted]

RCT: NA / NA / NA

Print name Signature Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern Is Depleted Uranium. Survey performed as follow-up to survey #880-04-S1258. Swipes # 8 and 9 taken in area where contamination was previously detected.

SURVEY RESULTS

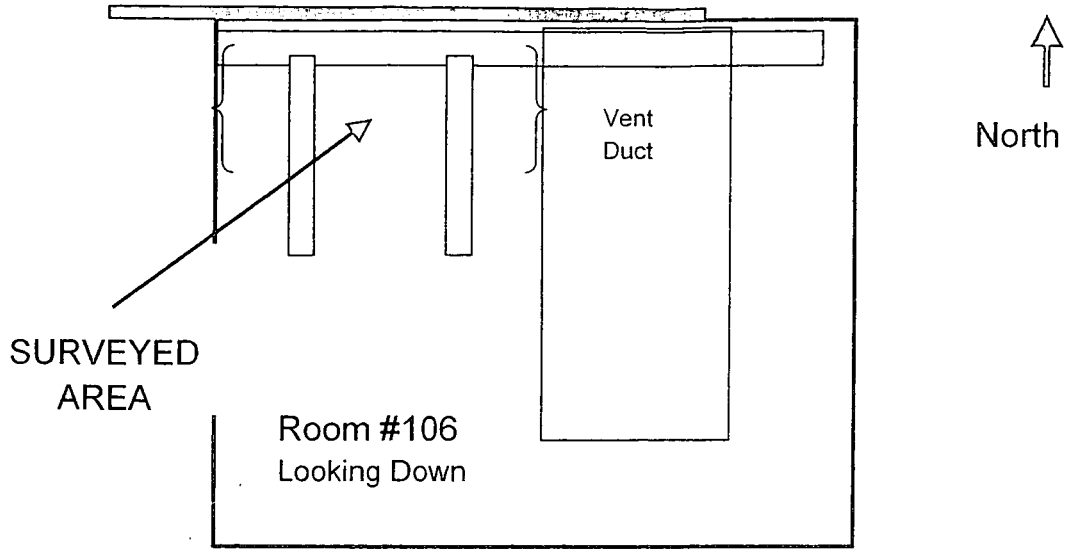
#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Top Beam East Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
2	Side Beam East Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
3	2nd Beam East Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
4	3rd Beam East Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
5	4th Beam East Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
6	Top Beam Middle Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
7	Top Beam Middle Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
8	Top Beam Middle Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
9	2nd Beam Middle Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
10	3rd Beam Middle Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
11	Top Beam West Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
12	2nd Beam West Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
13	Top Beam West Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
14	3rd Beam West Area - Between Beam and wall	<18	N/A	N/A	<205	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

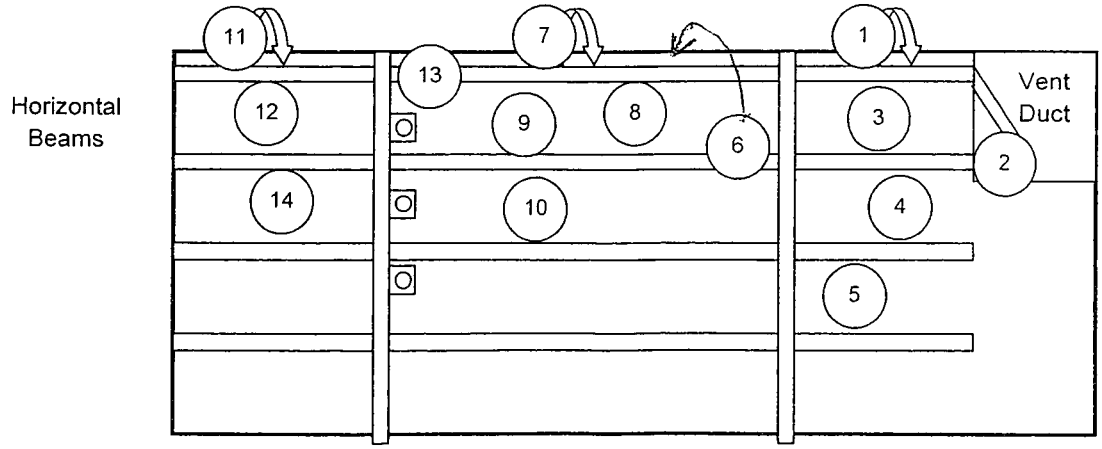
Date Reviewed: 1/13/05 **RS Supervision:** [redacted]

880-04-51263

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS





Room #106
Looking To The North WALL
(PRE-TRANSITE)

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12-27-04

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	####### dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	70.4 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	30.20 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	####### dpmβ

Survey Tracking # 883-04-S1201

Survey Type: Contamination

Building: 883

Location: 106 Plenum Box

Purpose: Post Paint

RWP #: 04-880-0002

Date: 12/27/04 Time: 1000

[redacted]

Print name / Signature / Emp. #

RCT: NA / NA / NA

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclide of concern is Depleted Uranium. Survey performed post painting surfaces for removable contamination. Grates inside 106 box need to be removed. See Survey #883-04-1310 for swipes after removal of grating and repainting of the grating bearing surfaces.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Floor	<18	N/A	N/A	<205	N/A	N/A
2	Floor	<18	N/A	N/A	<205	N/A	N/A
3	Wall	<18	N/A	N/A	<205	N/A	N/A
4	Wall	<18	N/A	N/A	<205	N/A	N/A
5	Wall	<18	N/A	N/A	<205	N/A	N/A
6	Ceiling	<18	N/A	N/A	<205	N/A	N/A
7	Ceiling	<18	N/A	N/A	<205	N/A	N/A
8	Floor	<18	N/A	N/A	<205	N/A	N/A
9	Wall	<18	N/A	N/A	<205	N/A	N/A
10	Wall	<18	N/A	N/A	<205	N/A	N/A
11	Wall	<18	N/A	N/A	<205	N/A	N/A
12-16	Grates	150	N/A	N/A	5.2K	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 12/28/04 **RS Supervision:** [redacted]

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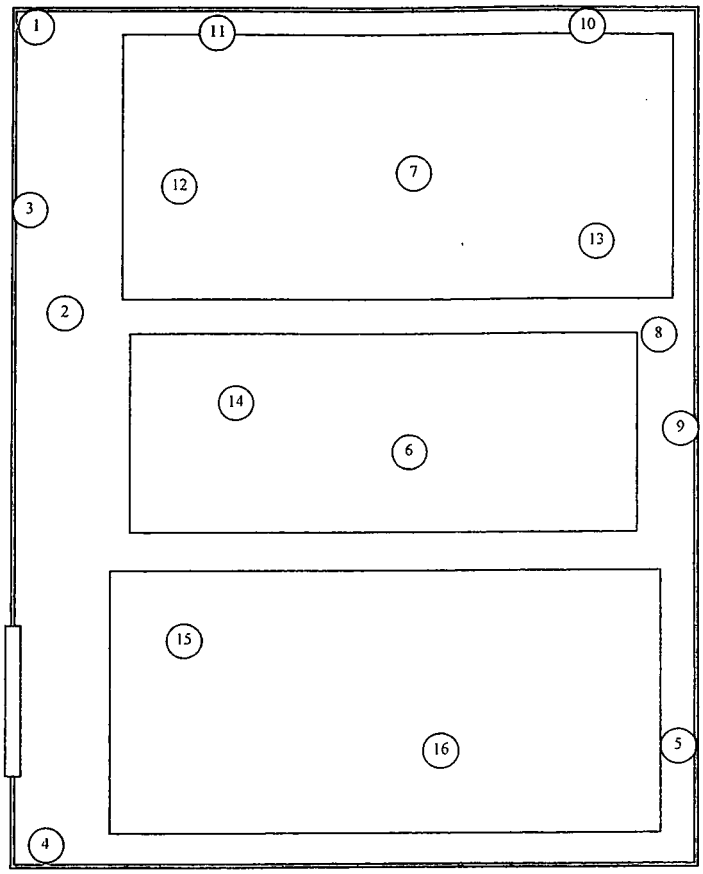
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

Survey # 883-04-S1201 106 Plenum Air Box Post-Fixative Survey



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	####### dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	74.7 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	30.20 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	####### dpmβ

Survey Tracking # 883-04-S1310

Survey Type: Contamination

Building: 883

Location: 106 Plenum Box

Purpose: Post Paint

RWP #: N/A

Date: 1/21/05 Time: 1400

R[redacted]

RCT: NA / NA / NA

Print name Signature Emp. #

PRN/REN #: N/A

Comments: Nuclide of concern is Depleted Uranium. Survey performed post grate removal bearing surfaces for removable contamination.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	grate bearing surface	<18	N/A	N/A	<205	N/A	N/A
2	grate bearing surface	<18	N/A	N/A	<205	N/A	N/A
3	grate bearing surface	<18	N/A	N/A	<205	N/A	N/A
4	grate bearing surface	<18	N/A	N/A	<205	N/A	N/A
5	grate bearing surface	<18	N/A	N/A	<205	N/A	N/A
6	Access Panel Flange	<18	N/A	N/A	<205	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 1/21/05 **RS Supervision:** [redacted]

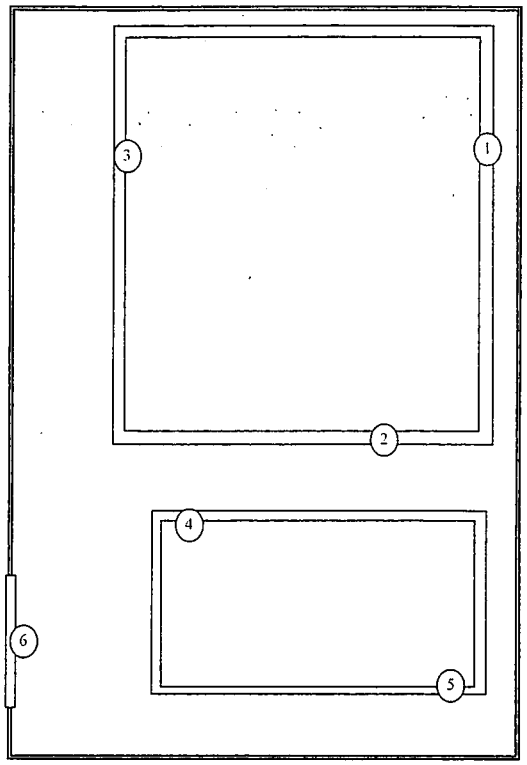
COPY

150

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

Survey # 1310



883 106 Air Box

883-04-51310

131

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.7 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	22.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	####### dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	67.0 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	163 dpmβ	MDA	200 dpmβ	MDA	####### dpmβ

Survey Tracking #	883-04-S 1190
Survey Type:	Contamination
Building:	883
Location:	B883 106 Air Duct
Purpose:	Post painting
RWP #:	04-880-0002
Date:	12/22/04 Time: 0800
RCT	[redacted]
RCT:	NA / NA / NA
	Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is Depleted Uranium only. Beta dpm CF Applied. Survey performed post painting of the north to south section of the duct work

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SURVEY RESULTS

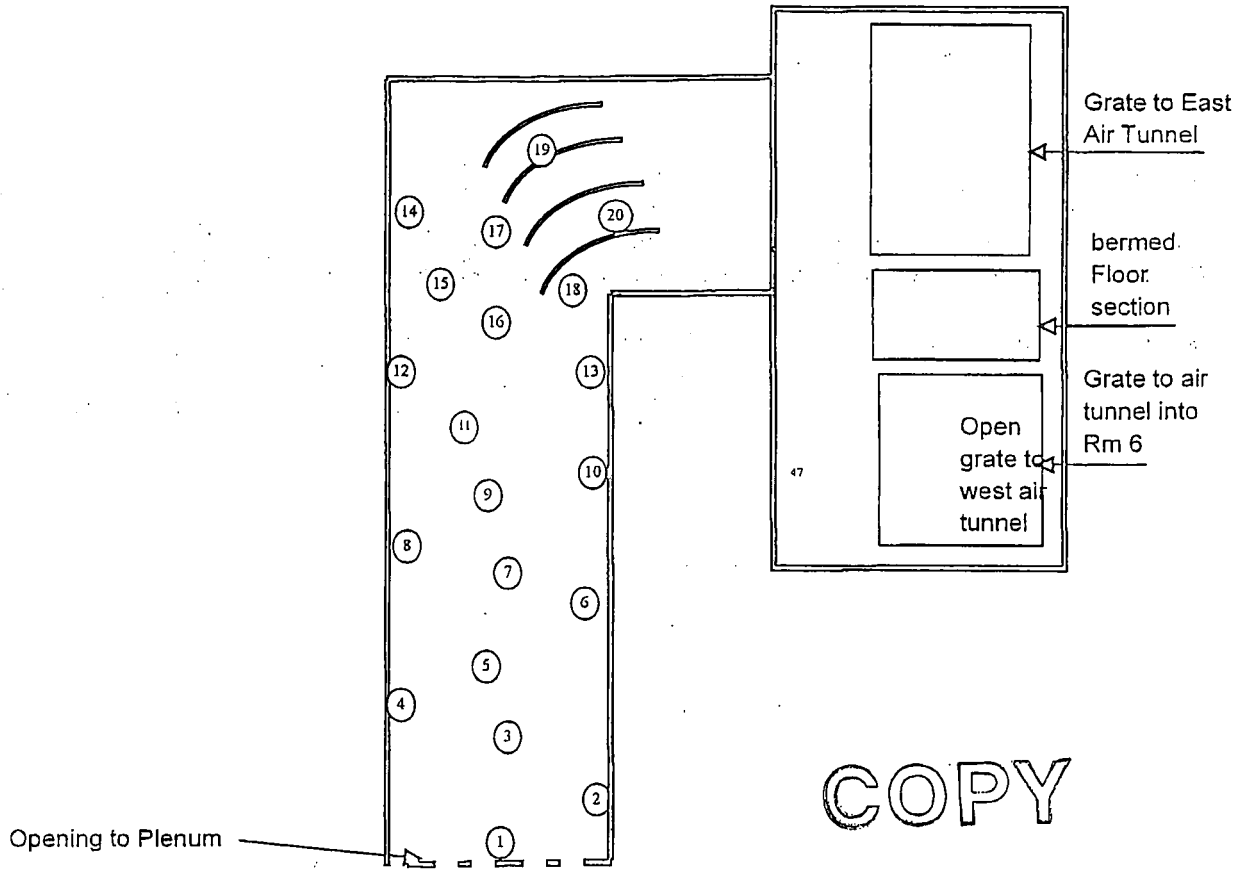
#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Wall	<18	N/A	N/A	<163	N/A	N/A
2	Wall	<18	N/A	N/A	<163	N/A	N/A
3	Ceiling	<18	N/A	N/A	<163	N/A	N/A
4	Wall	<18	N/A	N/A	<163	N/A	N/A
5	Floor	<18	N/A	N/A	<163	N/A	N/A
6	Wall	<18	N/A	N/A	<163	N/A	N/A
7	Ceiling	<18	N/A	N/A	<163	N/A	N/A
8	Wall	<18	N/A	N/A	<163	N/A	N/A
9	Floor	<18	N/A	N/A	<163	N/A	N/A
10	Wall	<18	N/A	N/A	<163	N/A	N/A
11	Ceiling	<18	N/A	N/A	<163	N/A	N/A
12	Wall	<18	N/A	N/A	<163	N/A	N/A
13	Wall	<18	N/A	N/A	<163	N/A	N/A
14	Wall	<18	N/A	N/A	<163	N/A	N/A
15	Floor	<18	N/A	N/A	<163	N/A	N/A
16	Ceiling	<18	N/A	N/A	<163	N/A	N/A
17	Floor	<18	N/A	N/A	<163	N/A	N/A
18	Floor	<18	N/A	N/A	<163	N/A	N/A
19	Wall	<18	N/A	N/A	<163	N/A	N/A
20	Wall	<18	N/A	N/A	<163	N/A	N/A

Date Reviewed: 12/22/04 RS Supervision [redacted]

192

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



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Attachment #1
A SIDE 883 Air Duct and
106 air box

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	N/A
Serial #	147866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	34.10 %	Efficiency	33.00 %	Efficiency	N/A %
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	N/A
Serial #	147866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	76.5 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A %
MDA	169 dpmβ	MDA	200 dpmβ	MDA	N/A dpmβ

Survey Tracking # 883-04-S1241

Survey Type: Contamination

Building: 883

Location: Room 107

Purpose: Post Paint Survey

RWP #: N/A

Date: 1/7/04 05 Time: 0930

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is depleted uranium . Survey performed to assess removable contamination in painted areas. Correction factors for DU applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	FLOOR Room 107	<18	N/A	N/A	296	N/A	N/A
2	FLOOR Room 107	<18	N/A	N/A	312	N/A	N/A
3	FLOOR Room 107	<18	N/A	N/A	272	N/A	N/A
4	FLOOR Room 107	<18	N/A	N/A	276	N/A	N/A
5	FLOOR Room 107	<18	N/A	N/A	328	N/A	N/A
6	FLOOR Room 107	<18	N/A	N/A	288	N/A	N/A
7	WALL Room 107	<18	N/A	N/A	296	N/A	N/A
8	WALL Room 107	<18	N/A	N/A	332	N/A	N/A
9	WALL Room 107	<18	N/A	N/A	336	N/A	N/A
10	WALL Room 107	<18	N/A	N/A	340	N/A	N/A
11	WALL Room 107	<18	N/A	N/A	344	N/A	N/A
12	WALL Room 107	<18	N/A	N/A	320	N/A	N/A
13	Over head Beam Room 107	<18	N/A	N/A	340	N/A	N/A
14	Over head Beam Room 107	<18	N/A	N/A	284	N/A	N/A
15	Over head Beam Room 107	<18	N/A	N/A	292	N/A	N/A
16	Over head Beam Room 107	<18	N/A	N/A	328	N/A	N/A
17	Over head Beam Room 107	<18	N/A	N/A	308	N/A	N/A
18	Over head Beam Room 107	<18	N/A	N/A	256	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	[redacted]					

Date Reviewed: 1/10/05 **RS Supervision:** [redacted]

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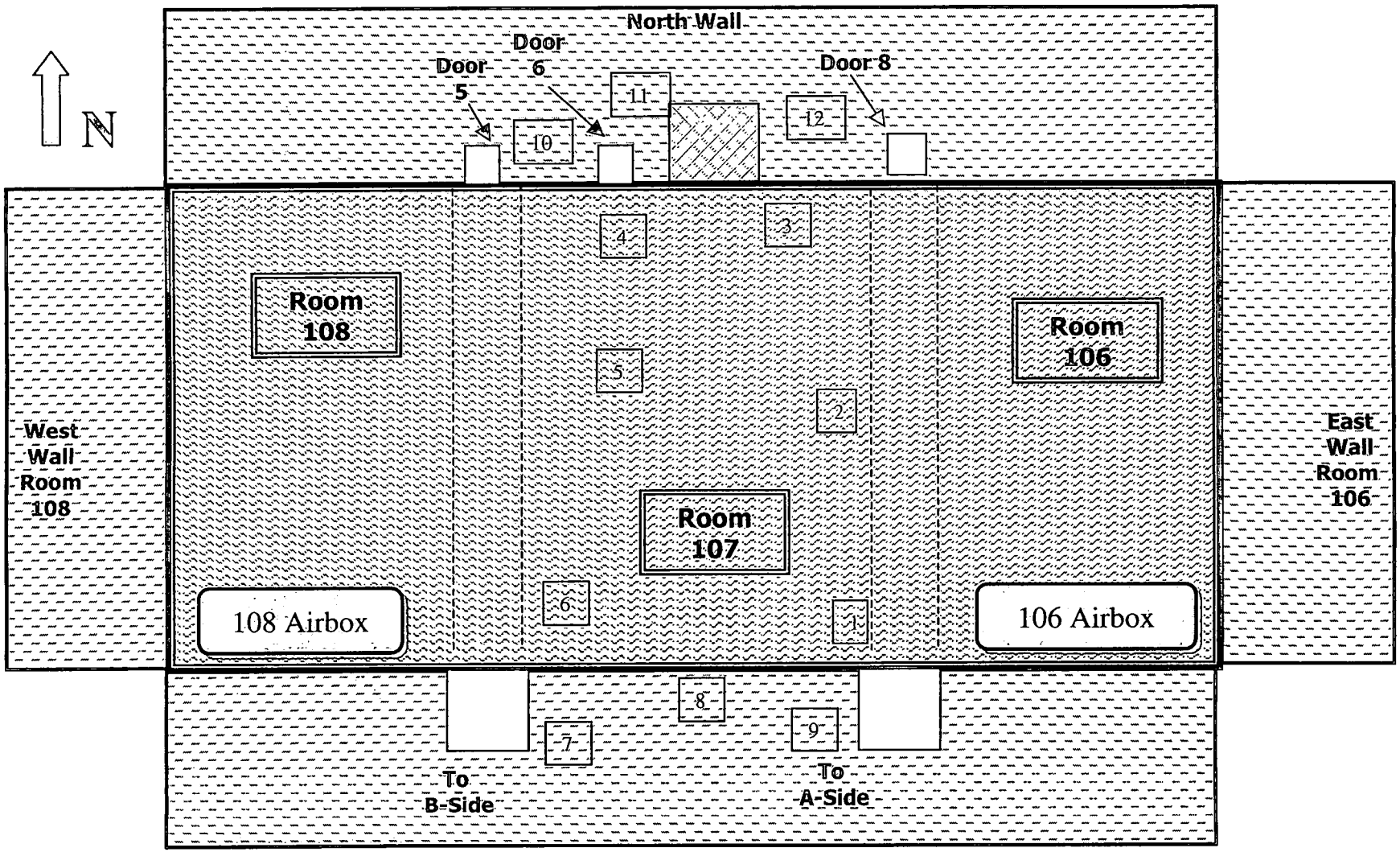
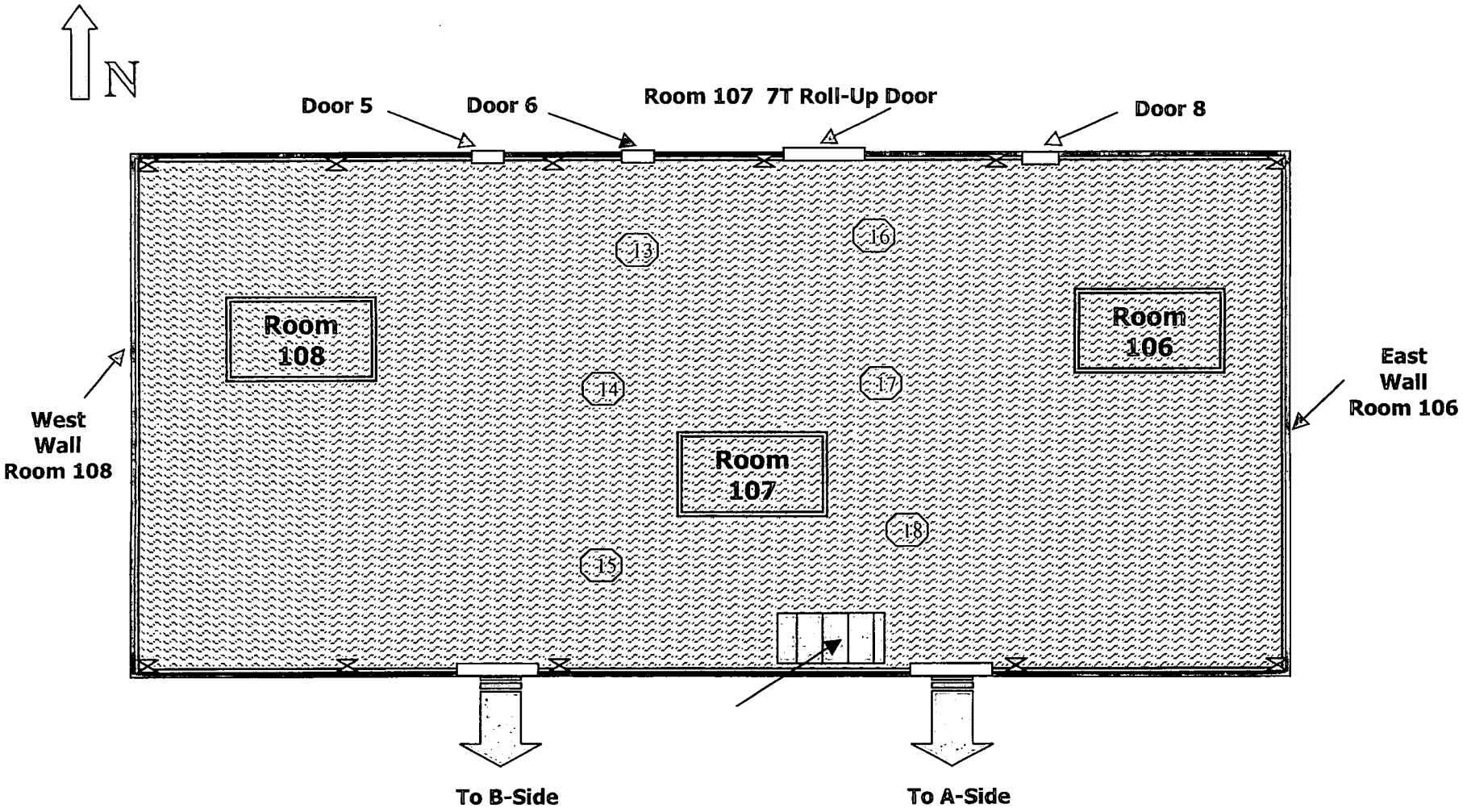
Bldg. 883 Rooms On Northside
Post Paint Swipe Coverage
Survey # 883-04-S1241



195

Bldg. 883 Northside Areas
Post Paint Overhead Swipe Map
Survey # 883-04-1241



Swipe and direct surveys taken at approximate sampling locations shown.

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1410
Cal Due	3/14/05	Cal Due	N/A	Cal Due	1/26/05
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	1.0 cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	34 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1410
Cal Due	3/14/05	Cal Due	N/A	Cal Due	1/26/05
Bkg	76.7 cpmβ	Bkg	N/A cpmβ	Bkg	431.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	174 dpmβ	MDA	200 dpmβ	MDA	451 dpmβ

Survey Tracking #	883-04-S1258
Survey Type:	Contamination
Building:	883
Location:	Room 106-107-108 Overhead
Purpose:	Post Painting
RWP #:	N/A
Date:	1/12/05
Time:	1400

[redacted]

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed post paint. This survey includes verification of room 106 overhead areas and airbox where prepaint swipes were greater than 1000dpm/100cm2 removable beta. See attached Map. *

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Beam	<18	N/A	N/A	<174	N/A	N/A
2	Ceiling	<18	N/A	N/A	<174	N/A	N/A
3	Beam	<18	N/A	N/A	<174	N/A	N/A
4	Ceiling	<18	N/A	N/A	<174	N/A	N/A
5	Ceiling	<18	N/A	N/A	<174	N/A	N/A
6	Beam	<18	N/A	N/A	<174	N/A	N/A
7	Beam	<18	N/A	N/A	<174	N/A	N/A
8	Beam	<18	N/A	N/A	<174	N/A	N/A
9	Beam	<18	N/A	N/A	<174	N/A	N/A
10	Ceiling	<18	N/A	N/A	<174	N/A	N/A
11	Beam	<18	N/A	N/A	<174	N/A	N/A
12	Beam on North wall	<18	N/A	N/A	<174	N/A	N/A
13	Top of Plenum box	<18	N/A	N/A	<174	N/A	N/A
14	Top of Plenum box	<18	N/A	N/A	<174	N/A	N/A
15	Top of Duct	<18	N/A	N/A	<174	N/A	N/A
16	Top of Box at Pipe	<18	N/A	N/A	<174	N/A	N/A
17	Top of Round Duct	<18	N/A	N/A	<174	N/A	N/A
18	Ceiling	<18	N/A	N/A	<174	N/A	N/A
19	Beam	<18	N/A	N/A	<174	N/A	N/A
20	Ceiling	<18	N/A	N/A	<174	N/A	N/A

Date Reviewed: 1/13/05 **RS Supervision:** [redacted]

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS Survey # 883-04-S1258

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
21	Bottom of Beam	<18	<34	N/A	<174	<451	N/A
22	Between top of wall and Beam	<18	N/A	N/A	<174	N/A	N/A
23	Ceiling	<18	N/A	N/A	<174	N/A	N/A
24	Ceiling at chipped coating	<18	<34	N/A	<174	<451	N/A
25	Beam	<18	N/A	N/A	<174	N/A	N/A
26	I Beam/Panel "SEE NOTE # 3 BELOW"	<18	N/A	N/A	<174	N/A	N/A
27	Top of Duct	<18	N/A	N/A	<174	N/A	N/A
28	Beam	<18	N/A	N/A	<174	N/A	N/A
29	South Wall Ledge	<18	N/A	N/A	<174	N/A	N/A
30	Top of Duct "SEE NOTE 2 BELOW"	<18	N/A	N/A	<174	N/A	N/A
31	Small Duct at South wall "SEE NOTE #4 BELOW	<18	N/A	N/A	<174	N/A	N/A
32	South Wall Ledge	<18	N/A	N/A	<174	N/A	N/A
33	Beam	<18	N/A	N/A	<174	N/A	N/A
34	Top of Duct	<18	N/A	N/A	<174	N/A	N/A
35	Beam	<18	N/A	N/A	<174	N/A	N/A
36	Wall behind box	<18	N/A	N/A	<174	N/A	N/A
37	Ceiling at Chipped Coating	<18	N/A	N/A	<174	N/A	N/A
38	Behind Duct top of Box North Side	<18	N/A	N/A	<174	N/A	N/A
39	Duct behind box	<18	N/A	N/A	<174	N/A	N/A
40	Top of Box Wall "SEE NOTE 1 BELOW"	<18	N/A	N/A	<174	N/A	N/A
41	Horizontal on Wall	<18	N/A	N/A	<174	N/A	N/A
42	Horizontal on Wall	<18	N/A	N/A	<174	N/A	N/A
43	Crossbrace	<18	N/A	N/A	<174	N/A	N/A
44	Horizontal on Wall	<18	N/A	N/A	<174	N/A	N/A
45	Horizontal on Wall	<18	N/A	N/A	<174	N/A	N/A
* 46	Between Wall and Beam	103	N/A	N/A	1212	N/A	N/A
47	Overhead rack	<18	N/A	N/A	<174	N/A	N/A
48	Overhead rack	<18	N/A	N/A	<174	N/A	N/A
49	Beam	<18	N/A	N/A	<174	N/A	N/A
50	Top of Wall	47	N/A	N/A	<174	N/A	N/A
51	I Beam	<18	N/A	N/A	<174	N/A	N/A
52	Beam	<18	N/A	N/A	<174	N/A	N/A
53	Ceiling	<18	N/A	N/A	<174	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Refer to Survey # 880-04-1263 for follow up survey.

Note 1: Swipe location # 40 corresponds to Swipe # 47 on the Post Pressure Wash Floor, Walls and Equipment Characterization Map

Note 2: Swipe location # 30 corresponds to Swipe # 49 on the Post Pressure Wash Floor, Walls and Equipment Characterization Map

Note 3: Swipe location # 26 corresponds to Swipe # 6 on the Post Pressure Wash Overhead and Stairs Characterization Map

Note 4: Swipe location # 31 corresponds to Swipe # 20 on the Post Pressure Wash Overhead and Stairs Characterization Map

* EXCEPT SWIPE 46 - SEE SURVEY S1263 FOR POST-DECON SWIPES

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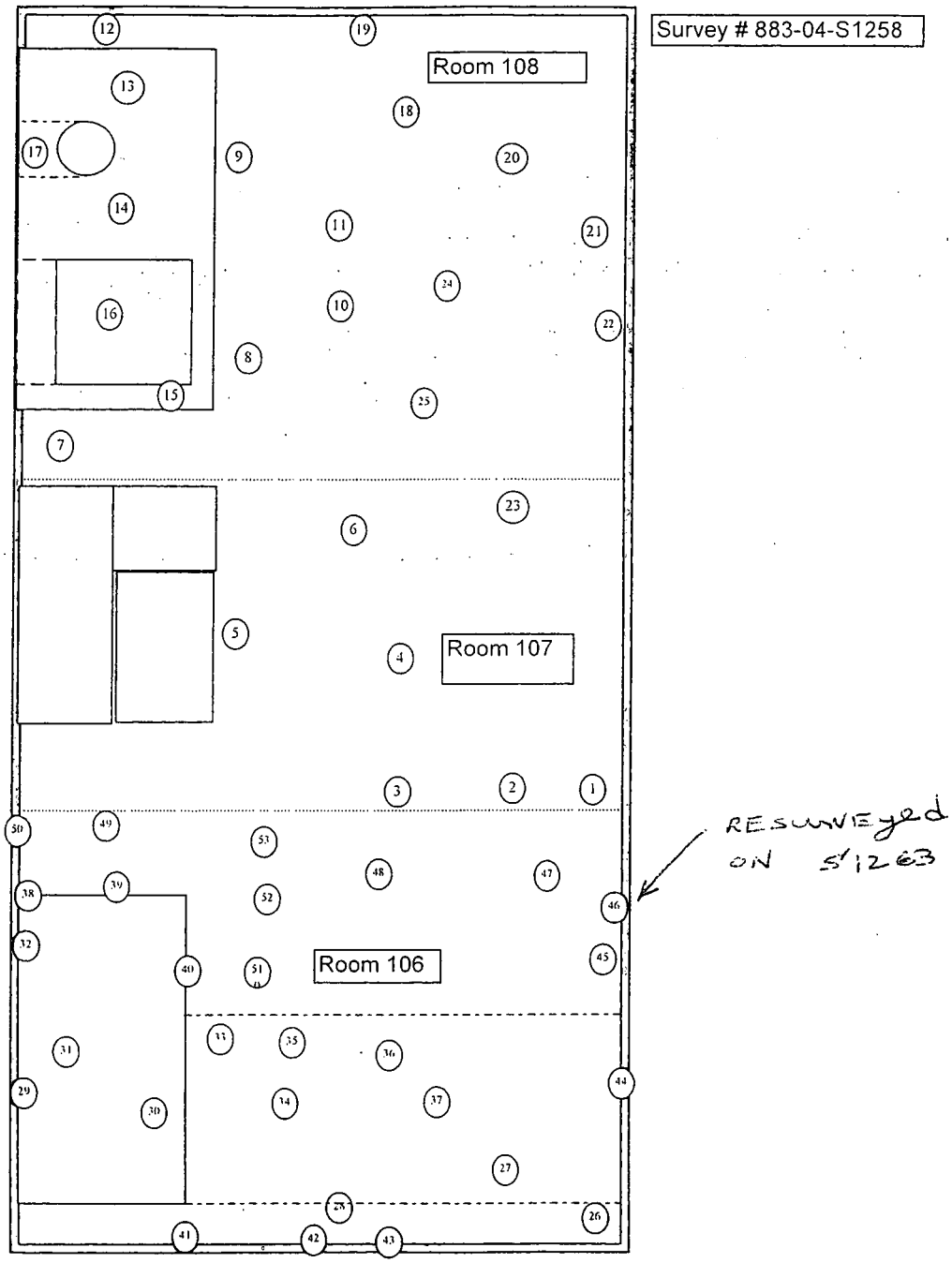
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



883 Rm 106, 107, 108

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ATTACHMENT B-5

Middle Area LLW Surveys

444 PDSR
Key Maps

PRE-FIXATIVE LLW SURVEYS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	NE Electra	Mfg.	NE Electra
Model	2929	Model	DP-6	Model	DP-6
Serial #	143866	Serial #	3131	Serial #	N/A
Cal Due	2/16/05	Cal Due	12/21/04	Cal Due	N/A
Bkg	0.7 cpmα	Bkg	7.0 cpmα	Bkg	N/A cpmα
Efficiency	34.80 %	Efficiency	22.30 %	Efficiency	N/A %
MDA	18 dpmα	MDA	55 dpmα	MDA	N/A dpmα
Mfg.	Ludlum	Mfg.	NE Electra	Mfg.	NE Electra
Model	2929	Model	DP-6	Model	DP-6
Serial #	143866	Serial #	3131	Serial #	N/A
Cal Due	2/16/05	Cal Due	12/21/04	Cal Due	N/A
Bkg	67.3 cpmβ	Bkg	654.0 cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	22.00 %	Efficiency	N/A %
MDA	163 dpmβ	MDA	559 dpmβ	MDA	N/A dpmβ

Survey Tracking # 883-04-S1179

Survey Type: Contamination Characterization

Building: 883

Location: Room 110

Purpose: Pre Sealant Spray Survey

RWP #: N/A

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Floor (see map)	<18	655	N/A	280	6545	N/A
2	Floor (see map)	<18	336	N/A	340	6455	N/A
3	Floor (see map)	<18	847	N/A	380	5218	N/A
4	Floor (see map)	<18	3229	N/A	244	5300	N/A
5	Floor (see map)	23	825	N/A	492	5386	N/A
6	Floor (see map)	<18	269	N/A	388	9391	N/A
7	Floor (see map)	<18	422	N/A	420	9223	N/A
8	Floor (see map)	<18	287	N/A	492	17291	N/A
9	Wall (see map)	<18	<55	N/A	296	3545	N/A
10	Wall (see map)	<18	<55	N/A	328	3595	N/A
11	Wall (see map)	<18	359	N/A	280	3136	N/A
12	Wall (see map)	<18	67	N/A	336	3545	N/A
13	Wall (see map)	23	99	N/A	284	3255	N/A
14	Wall (see map)	<18	166	N/A	308	4127	N/A
15	Wall (see map)	<18	<55	N/A	324	4264	N/A
16	Wall (see map)	<18	67	N/A	256	3564	N/A
17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 12/21/04 **RS Supervision:** [redacted]

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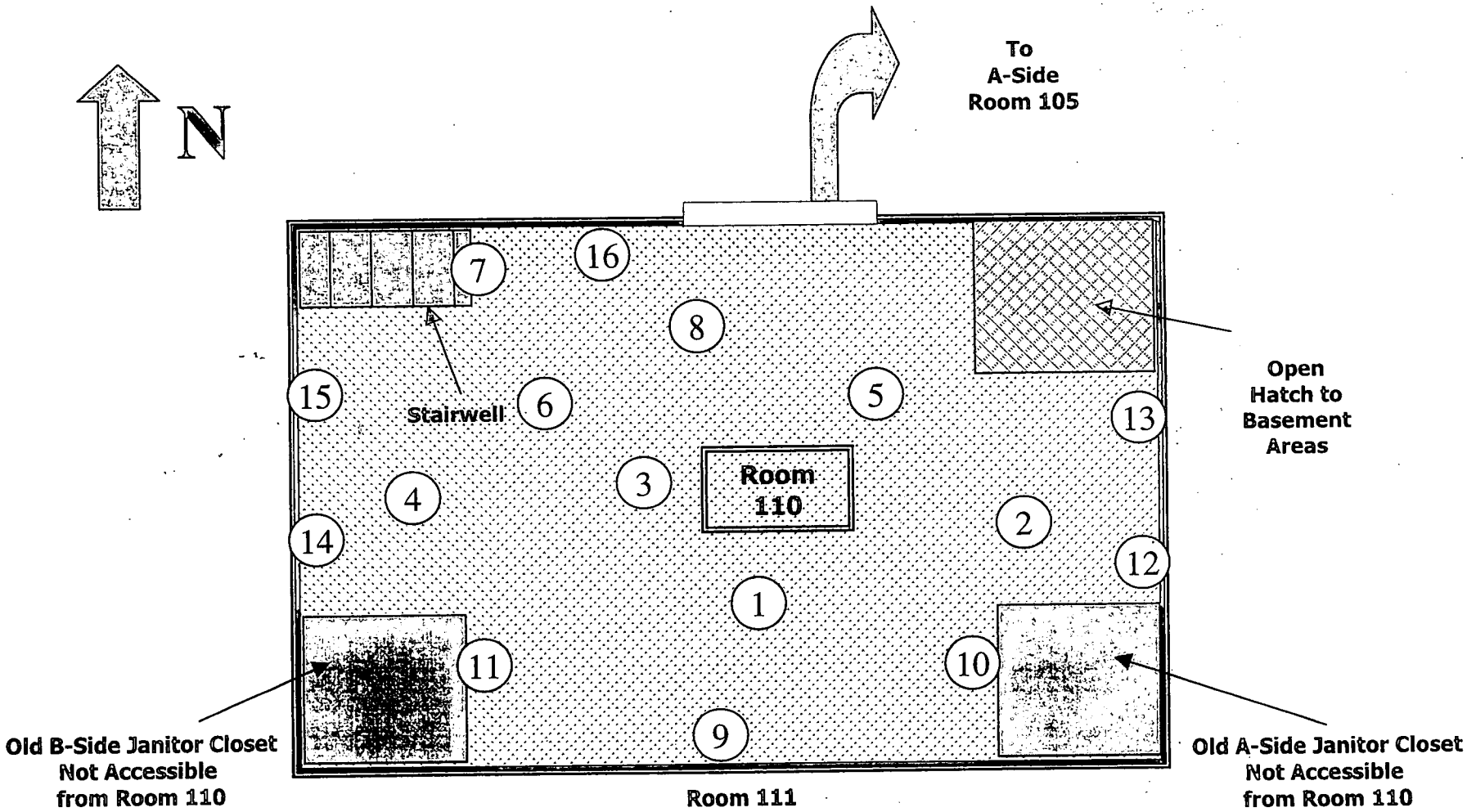
Bldg. 883 Room 110

Post Decontamination Survey # 883-04-S1179



Surveys taken in approximate locations shown in Room 110.

Building 883 G4 Room 111
Floor, Wall, Crane and Structural Beams
Contamination Data Summary

PRE- Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	Room 111 East Wall	174	573
2	Room 111 East Wall	284	573
3	Room 111 East Wall	174	573
4	East Wall Beam	280	1,500
5	East Wall Beam	296	500
6	Room 111 Block	174	573
7	Room 111 East Wall Column	652	800
8	Room 111 Crane Beam	174	10,000
9	Room 111 Crane Rail	167	573
10	Room 111 East Wall Block	420	573
11	Room 111 East Wall Column	174	573
12	Room 111 East Wall Rail	174	1,500
13	Room 111 South Wall Door	167	573
14	Room 111 South Wall Ledge	174	573
15	Room 111 South Wall Horizontal	174	573
16	Room 111 South Wall Transite	174	573
17	Room 111 South Wall I-Beam	174	573
18	Room 111 South Wall Ledge	174	573
19	Room 111 West Wall I-Beam	174	573
20	Room 111 West Wall Column	174	10,000
21	Room 111 West Wall Column	300	1,000
22	Room 111 West Wall Horizontal Beam	174	573
23	Room 111 West Wall Block	174	573
24	Room 111 West Wall Block	174	1,000
25	Room 111 West Wall Crane Rail	174	3,000
26	Room 111 West Wall I-Beam	174	573
27	Room 111 West Wall Brace	174	1,500
28	Room 111 West Wall Column	174	1,200
29	Room 111 West Ledge	174	573
30	Room 111 West Ledge	174	573
31	Room 111 West Ledge	174	573
32	Room 111 West Wall Crane Rail	800	573
33	Room 111 West Wall Horizontal	1,500	3,000
34	Room 111 North Wall Column	560	573
35	Room 111 North Wall Block	174	573
36	Room 111 North Wall Block	174	573
37	Room 111 North Wall Column	174	2,000
38	Room 111 North Wall I-Beam	174	573
39	Room 111 North Wall Block	174	573
40	Room 111 Floor	284	5,000

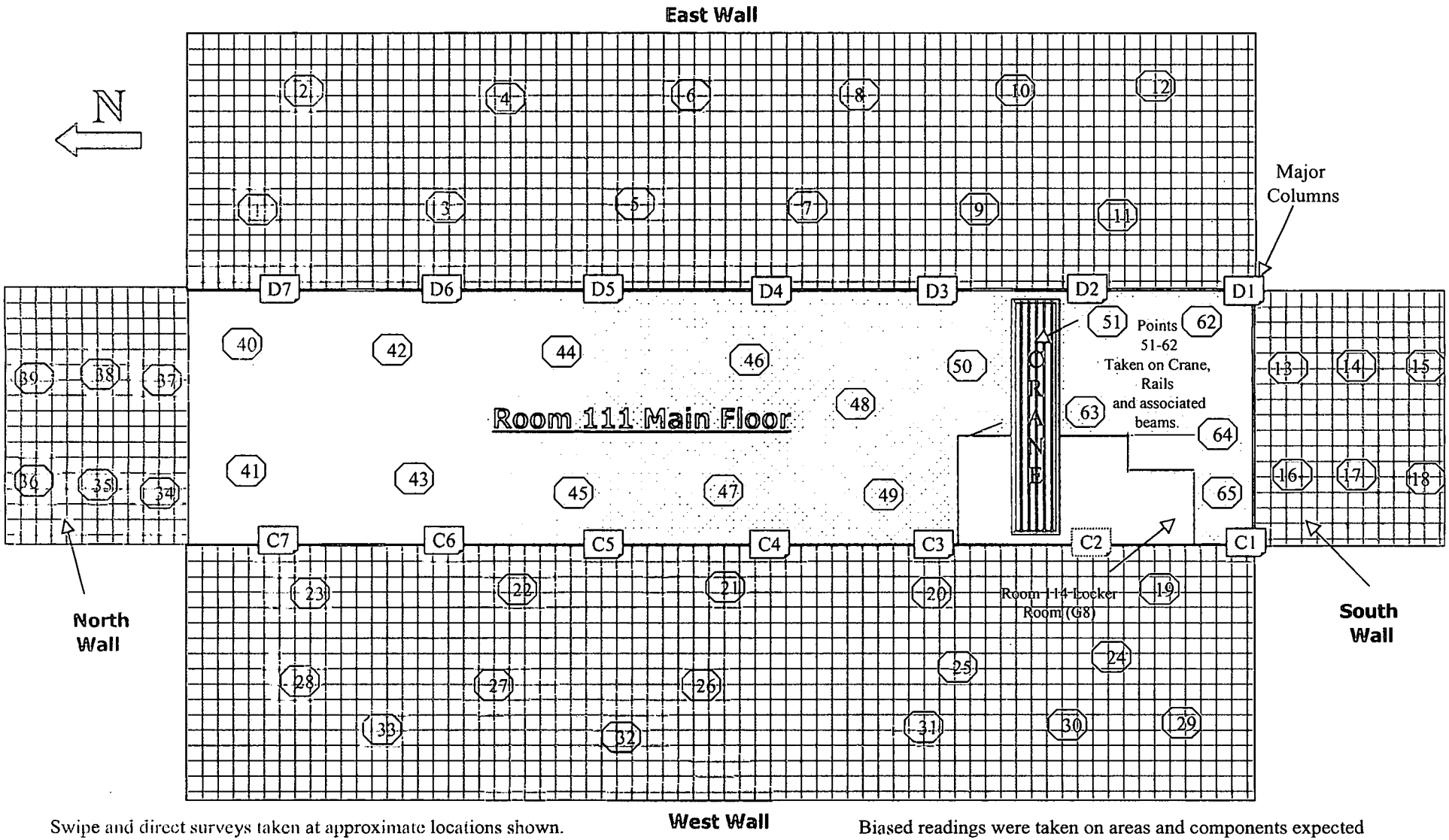
Building 883 G4 Room 111
Floor, Wall, Crane and Structural Beams
Contamination Data Summary

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
41	Room 111 MCC Tray	550	4,000
42	Room 111 Floor	300	6,000
43	Room 111 MCC Tray	400	8,000
44	Room 111 Floor	240	175,000
45	Room 111 Floor	652	10,000
46	Room 111 Floor Penetration/Loadout	800	25,000
47	Room 111 Floor	380	1,050
48	Room 111 Electrical Base	*174*	8,000
49	Room 111 Floor	*174*	1,200
50	Room 111 Floor Seam	800	150,000
51	Bridge Crane Rail	500	800
52	Bridge Crane Rail	*174*	560
53	Bridge Crane Roof	*174*	1,200
54	Bridge Crane Roof	425	400
55	Bridge Crane I-Beam	400	1,200
56	Bridge Crane I-Beam	360	1,500
57	Bridge Crane I-Beam	1,500	1,500
58	Bridge Crane Rail	800	3,000
59	Bridge Crane Cab Top	400	8,000
60	Bridge Crane Cab	400	1,500
61	Bridge Crane Horizontal	600	2,000
62	Bridge Crane Horizontal	560	10,000
63	Room 111 Floor	*174*	*573*
64	Room 111 Floor	*174*	*573*
65	Room 111 Floor	*174*	*573*

Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	1,500	175,000
Mean (Average)	336	7,362
n	65	65
Standard Deviation	281	28,219

RE Comments	
G. M. Aldrich, X7175	Room 111 G4 Electrical Switchboard/Motor Control Center room areas were extensively surveyed during equipment stripout activities. Pressure washing was performed throughout overhead, high wall, beam, block, and floor before fixative. Readings taken were biased as much as practicable to locate highest levels of contamination. D&D strip-out surveys were used for some data points.

Bldg. 883 G4 Room 111
Post Pressure Wash Wall, Floor & Equipment Characterization



Swipe and direct surveys taken at approximate locations shown. See attached Contamination Data Summary sheets for levels. D&D strip-out contamination surveys were used for some readings.

Biased readings were taken on areas and components expected to have the highest fixed contamination (horizontal surfaces, etc.)

206

Building 883 G4 Room 111 Overhead Areas and Duct Contamination Data Summary

PRE-Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	Room 111 Supply Duct Interior	167	1,000
2	Room 111 Supply Duct Exterior	284	3,000
3	Room 111 Overhead Cross Beam	324	1,200
4	Room 111 Overhead Supply Duct Exterior	280	1,500
5	Room 111 Supply Duct Interior	296	573
6	Room 111 Bridge Crane Support	167	573
7	Room 111 Overhead Cross Beam	652	573
8	Room 111 High Wall/Overhead Beam	800	10,000
9	Room 111 Overhead Supply Duct Interior	167	573
10	Room 111 Supply Duct Exterior	420	5,000
11	Room 111 Overhead Cross Brace	400	573
12	Room 111 Overhead Supply Duct Exterior	400	1,500
13	Room 111 Supply Duct Support	167	573
14	Room 111 Overhead Cross Brace	360	8,000
15	Room 111 Bridge Crane Top	167	5,000
16	Room 111 Overhead High Wall Beam	360	573
17	Room 111 Supply Duct Interior	284	1,500
18	Room 111 Supply Duct Exterior	284	1,000
19	Room 111 Overhead Brace	167	573
20	Room 111 Overhead Supply Duct Top	672	10,000
21	Room 111 Overhead Beam	400	1,000
22	Room 111 Overhead Crane Rail	425	573
23	Room 111 Overhead Support	800	573
24	Room 111 Supply Duct Interior	167	1,000
25	Room 111 Supply Duct Exterior	167	3,000
26	Room 111 Overhead Electrical	328	573
27	Room 111 Overhead Duct Interior	400	1,500
28	Room 111 Overhead Duct Exterior	167	1,200
29	Room 111 Overhead Duct Interior	284	573

Building 883 G4 Room 111 Overhead Areas and Duct Contamination Data Summary

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
30	Room 111 Overhead Duct Exterior	372	5,000
31	Room 111 Overhead Support	400	2,000
32	Room 111 Overhead Duct Exterior	600	*573*
33	Room 111 Overhead Duct Exterior	*167*	4,000
34	Room 111 Overhead Brace	*167*	*573*
35	Room 111 Overhead Beam	*167*	*573*
	No further entries		

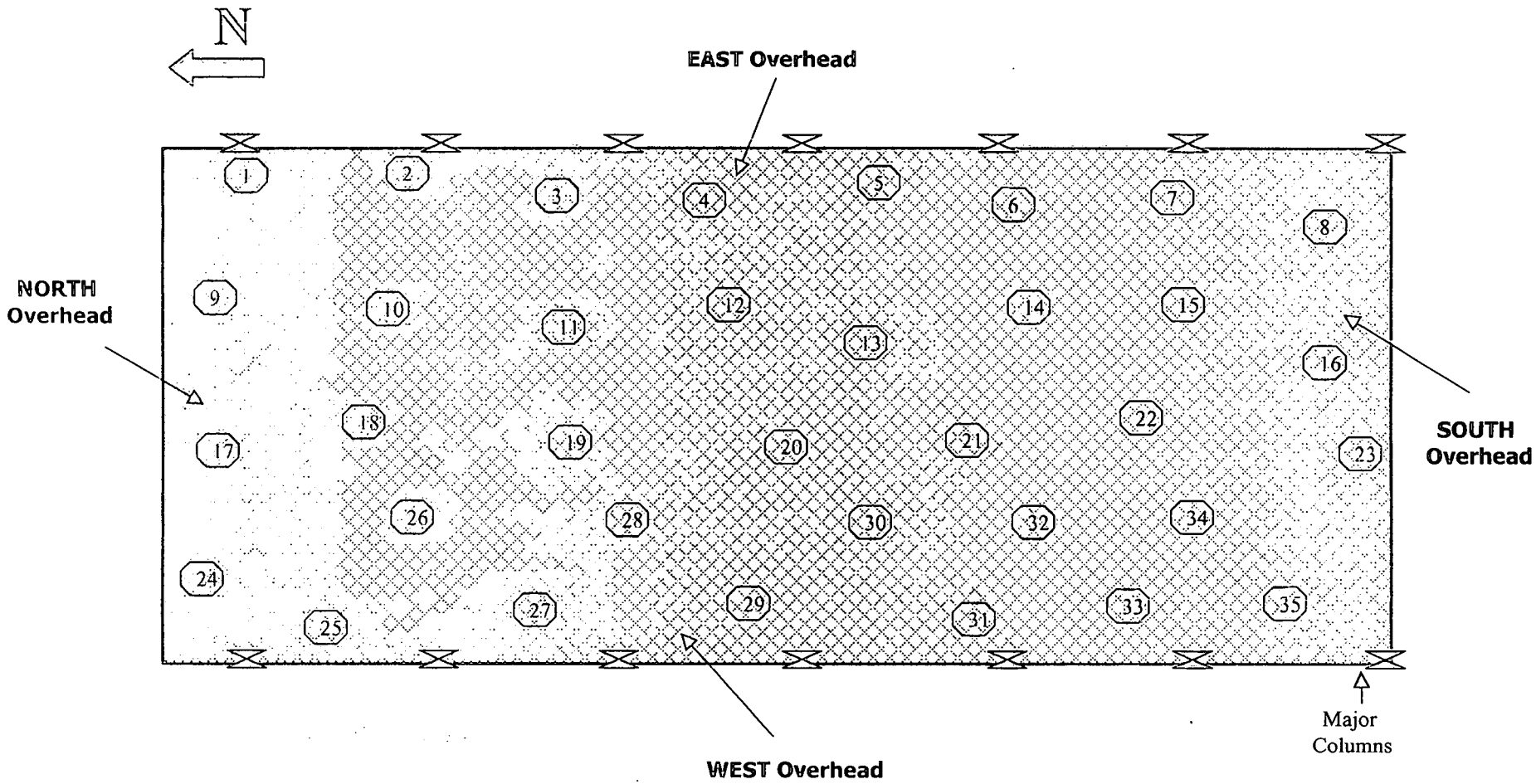
Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	800	10,000
Mean (Average)	338	2,171
n	35	35
Standard Deviation	181	2,617

RE Comments	Room 111 G4 Electrical Switchboard/Motor Control Center room areas were extensively surveyed during equipment stripout activities. Pressure washing was performed throughout overhead, high wall, beam, block, and floor areas. Readings taken were biased towards items and surfaces expected to have highest levels. After these surveys were taken, fixative was applied to overhead areas, walls, and equipment in Room 111. All readings in *italics* were less than the Minimum Detectable Activity (MDA) for the instrument used.
G. M. Aldrich, X7175	

Bldg. 883 G-4 Room 111

Post Pressure Wash Overhead Characterization Map

(Room 111 Overhead Plan View)



Swipe and direct surveys taken at approximate sampling locations shown. See attached Contamination Data Summary sheets for activity levels seen and description of various overhead components and surfaces surveyed. All beams and and ducts were pressure-washed with steam/water using Hotsy sprayers before fixative.

Biased readings were taken on surfaces & components which previously had highest contamination. Readings included both swipes for removable and direct readings for remaining fixed contamination. Some D&D overhead area strip-out surveys were used for data.

209

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE Electra
Model	2929	Model	N	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	2373
Cal Due	2/16/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	0.7 cpmα	Bkg	N/A microrem	Bkg	1.0 cpmα
Efficiency	34.80 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	18 dpmα	MDA	N/A microrem	MDA	33 dpmα
Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE Electra
Model	2929	Model	N	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	2373
Cal Due	2/16/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	67.0 cpmβ	Bkg	N/A cpmβ	Bkg	649.0 cpmβ
Efficiency	25.00 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	163 dpmβ	MDA	N/A dpmβ	MDA	551 dpmβ

Survey Tracking # 883-04-S1193
Survey Type: Contamination
Building: 883
Location: 111 OVERHEAD
Purpose: POST POWERWASH (Pre-Fixative)

RWP #: 04-880-0002

Date: 12/22/04 Time: 1500

[redacted]

RCT: N/A / N/A / N/A
Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern are Uranium. Survey done to characterizeoverhead and walls after room was powerwashed. The top of the duct and above was inacessible in most areas of the room.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	I-BEAMS(EAST SIDE)	30	<33	N/A	560	<551	N/A
2	CRANE RAIL(EAST SIDE)	60	<33	N/A	800	3000	N/A
3	I-BEAMS(EAST SIDE)	120	<33	N/A	1500	<551	N/A
4	ONTOP OF DUCT	60	<33	N/A	560	<551	N/A
5	CRANE RAIL(EAST SIDE)	<18	<33	N/A	<163	<551	N/A
6	I-BEAMS(EAST SIDE)	105	<33	N/A	600	<551	N/A
7	ONTOP OF DUCT	<18	<33	N/A	<163	<551	N/A
8	CRANE RAIL(EAST SIDE)	60	<33	N/A	800	<551	N/A
9	I-BEAMS(EAST SIDE)	21	<33	N/A	<163	<551	N/A
10	CRANE RAIL(EAST SIDE)	90	<33	N/A	560	<551	N/A
11	I-BEAMS(EAST SIDE)	42	<33	N/A	800	<551	N/A
12	CRANE RAIL(EAST SIDE)	<18	<33	N/A	<163	<551	N/A
13	I-BEAMS(WEST SIDE)	39	<33	N/A	420	<551	N/A
14	CRANE RAIL(WEST SIDE)	30	<33	N/A	1200	<551	N/A
15	I-BEAMS(WEST SIDE)	21	<33	N/A	425	<551	N/A
16	CRANE RAIL(WEST SIDE)	<18	<33	N/A	<163	<551	N/A
17	I-BEAMS(WEST SIDE)	<18	<33	N/A	<163	<551	N/A
18	CRANE RAIL(WEST SIDE)	60	<33	N/A	400	<551	N/A
19	I-BEAMS(WEST SIDE)	<18	<33	N/A	<163	<551	N/A
20	CRANE RAIL(WEST SIDE)	[redacted]					

Date Reviewed: 12/22/04 **RS Supervision:** [redacted]

COPY

210

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	I-BEAMS(WEST SIDE)	<18	<33	N/A	<163	<551	N/A
22	CRANE RAIL(WEST SIDE)	60	<33	N/A	425	<551	N/A
23	I-BEAMS(WEST SIDE)	54	<33	N/A	360	<551	N/A
24	CRANE RAIL(WEST SIDE)	<18	<33	N/A	<163	<551	N/A
25	CRANE RAIL(WEST SIDE)	<18	<33	N/A	<163	<551	N/A
26	CRANE ACESS ROOF	39	<33	N/A	400	1200	N/A
27	CRANE ACESS ROOF	<18	<33	N/A	<163	1500	N/A
28	CRANE ACESS ROOF	<18	<33	N/A	<163	<551	N/A
29	WALL(SOUTH WEST)	<18	<33	N/A	<163	<551	N/A
30	WALL(SOUTH)	<18	<33	N/A	<163	<551	N/A
31	WALL(SOUTH)	<18	<33	N/A	<163	<551	N/A
32	WALL(EAST)	<18	<33	N/A	<163	<551	N/A
33	WALL(EAST)	<18	<33	N/A	<163	<551	N/A
34	WALL(EAST)	<18	<33	N/A	<163	<551	N/A
35	WALL(NORTH)	<18	<33	N/A	<163	<551	N/A
36	WALL(NORTH)	<18	<33	N/A	<163	<551	N/A
37	WALL(WEST)	<18	<33	N/A	<163	<551	N/A
38	WALL(WEST)	<18	<33	N/A	<163	<551	N/A
39	WALL(WEST)	<18	<33	N/A	<163	<551	N/A
40	WALL(WEST)	<18	<33	N/A	<163	<551	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

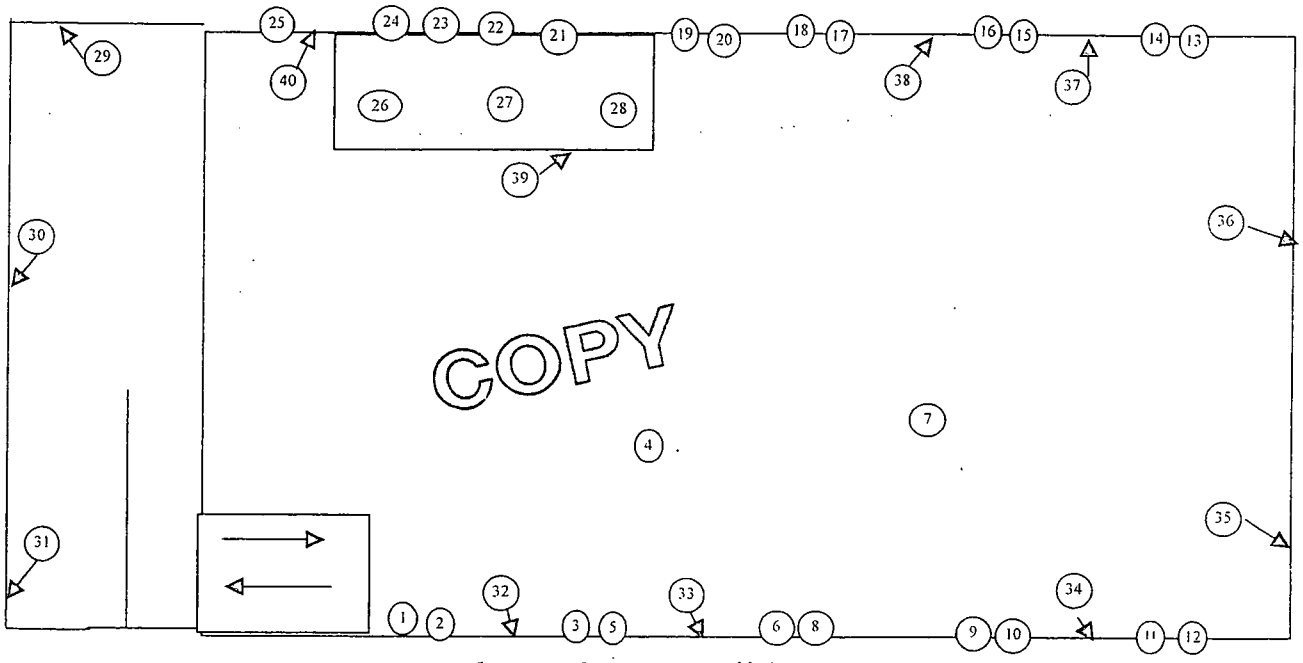
COPY

21

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

Survey # 883-04-S1193



Attachment #1
Room 111

212

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg:	N/A	Mfg.	NE Electra
Model	2929	Model	N	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	2373
Cal Due	2/16/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	0.7 cpmα	Bkg	N/A microrem	Bkg	1.0 cpmα
Efficiency	34.80 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	18 dpmα	MDA	N/A microrem	MDA	33 dpmα

Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE Electra
Model	2929	Model	N	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	2373
Cal Due	2/16/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	67.0 cpmβ	Bkg	N/A cpmβ	Bkg	649.0 cpmβ
Efficiency	25.00 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	163 dpmβ	MDA	N/A dpmβ	MDA	551 dpmβ

Survey Tracking # 883-04-S1191

Survey Type: Contamination

Building: 883

Location: 111 FLOOR

Purpose: POST POWERWASH (Pre-Fixative)

RWP #: 04-880-0002

Date: 12/22/04 Time: 0900

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey done to characterize floor after room was powerwashed.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	TRAY(SE CORNER)	<18	<33	N/A	<163	8000	N/A
2	TRAY(SW CORNER)	<18	<33	N/A	<163	4000	N/A
3	TRAY(MIDDLE OF ROOM)	<18	<33	N/A	<163	5000	N/A
4	TRAY(MIDDLE OF ROOM)	36	<33	N/A	<163	5000	N/A
5	TRAY(MIDDLE OF ROOM)	<18	<33	N/A	<163	6000	N/A
6	HOLE IN FLOOR(NORTH END)	175	125	N/A	800	25000	N/A
7	TRAY(NORTH END)	45	<33	N/A	1050	2000	N/A
8	SEAM IN FLOOR(NORTHEAST CORNER)	42	500	N/A	800	150000	N/A
9	SEAM IN FLOOR(EAST SIDE OF ROOM)	<18	550	N/A	<163	175000	N/A
10	FLOOR(WEST SIDE OF ROOM)	108	100	N/A	400	10000	N/A
11	FLOOR(WEST SIDE OF ROOM)	<18	<33	N/A	<163	5000	N/A
12	FLOOR(WEST SIDE OF ROOM)	30	<33	N/A	<163	2000	N/A
13	FLOOR(WEST SIDE OF ROOM)	60	<33	N/A	550	2000	N/A
14	FLOOR(SOUTH END)	42	<33	N/A	600	1000	N/A
15	FLOOR(SOUTHWEST PART OF ROOM)	30	<33	N/A	<163	1000	N/A
16	FLOOR(EAST SIDE OF ROOM)	90	<33	N/A	400	1000	N/A
17	FLOOR(EAST SIDE OF ROOM)	42	<33	N/A	300	1000	N/A
18	FLOOR(EAST SIDE OF ROOM)	60	<33	N/A	<163	1200	N/A
19	FLOOR(EAST SIDE OF ROOM)	<18	<33	N/A	<163	1200	N/A
20	FLOOR(NORTH END OF ROOM)	<18	<33	N/A	<163	1000	N/A

Date Reviewed: 1/15/05 **RS Supervision:** [redacted]

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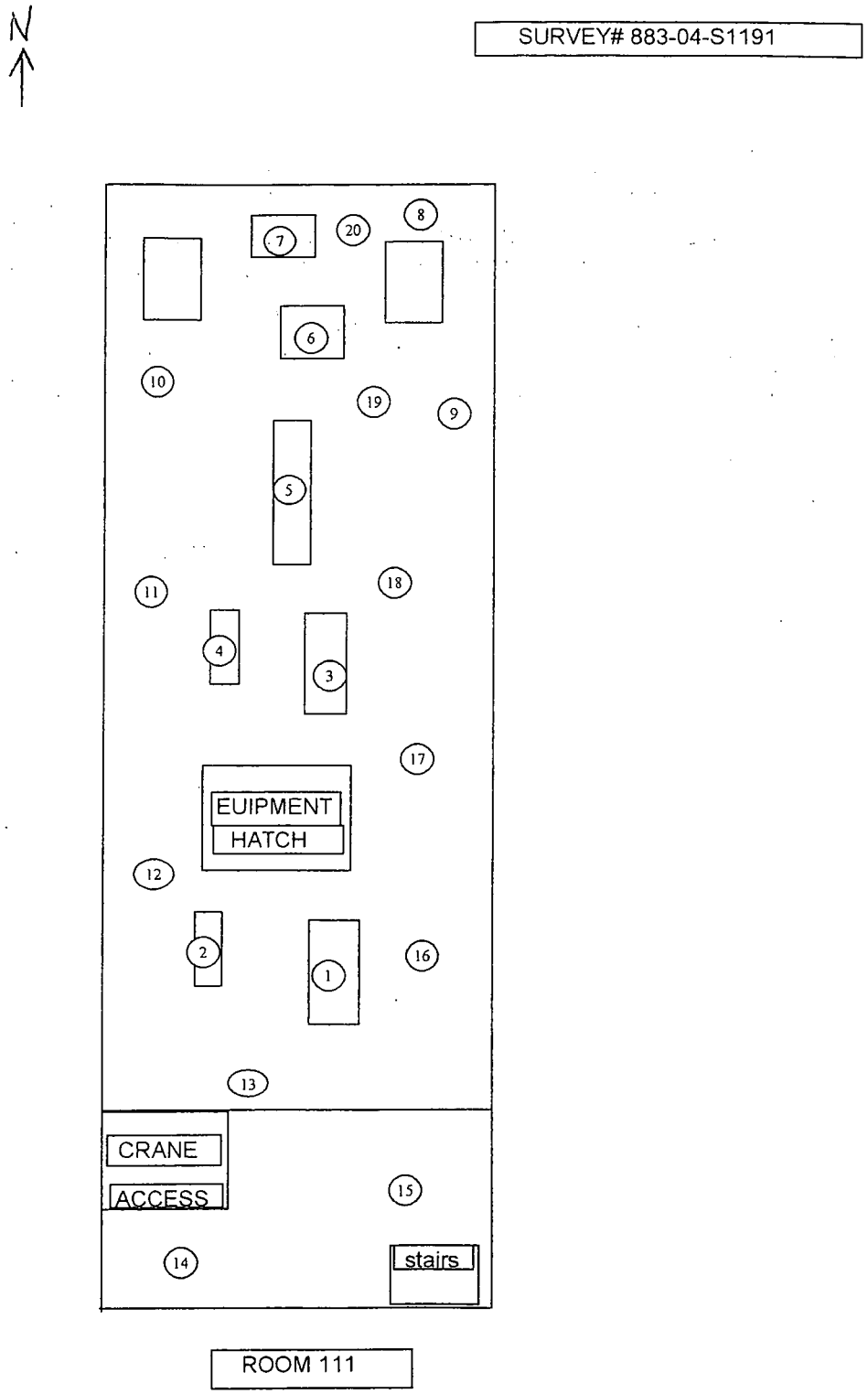
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Eberline	Mfg.	N/A	Mfg.	NE Tech
Model	SAC-4	Model	N/A	Model	DP-6
Serial #	924	Serial #	N/A	Serial #	1512
Cal Due	2/5/05	Cal Due	N/A	Cal Due	4/15/05
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	0 cpmα
Efficiency	0.33 %	Efficiency	N/A %	Efficiency	22.50 %
MDA	20 dpmα	MDA	N/A dpmα	MDA	33 dpmα

Survey Type: Contamination
Building: 883
Location: Rm 144
Purpose: Characterization survey of floor (Pre-Fix)
RWP #: N/A
Date: 11/9/04 Time: 0845

Mfg.	Eberline	Mfg.	N/A	Mfg.	NE Tech
Model	BC-4	Model	N/A	Model	DP-6
Serial #	843	Serial #	N/A	Serial #	1512
Cal Due	10/4/05	Cal Due	N/A	Cal Due	4/15/0
Bkg	43.2 cpmβ	Bkg	N/A cpmβ	Bkg	628 cpm
Efficiency	14.00 %	Efficiency	N/A %	Efficiency	22.00
MDA	258 dpmβ	MDA	N/A dpmβ	MDA	745 dpm

[redacted]

PRN/REN # : N/A

Comments: Rm. 144 floor is being disposed of as LLW. This survey is to characterize the floor for both fixed and removable contamination. The walls and ceiling were surveyed in a PDS package (#883-008). The Beta efficiency listed reflect correction for DU. Calibrated efficiencies were for Electra # 1512 - 32.1% & for BC-4 # 843- 25.0%.

SURVEY RESULTS

Swipe #	Location / Description Results in DPM/100sq.cm	Removable Alpha	Removable Beta	Total Alpha	Total Beta	µrem/hr
1	floor	<20	<258	<33	<745	N/A
2	floor	<20	<258	<33	<745	N/A
3	floor	<20	<258	<33	<745	N/A
4	floor	<20	<258	<33	<745	N/A
5	floor	<20	<258	<33	<745	N/A
6	floor	<20	<258	<33	**3320**	N/A
7	floor	<20	<258	<33	**4140**	N/A
8	floor	<20	<258	<33	**4790**	N/A
9	floor	<20	<258	<33	<745	N/A
10	floor	<20	<258	<33	<745	N/A
11	floor	<20	<258	<33	<745	N/A
12	floor	<20	<258	<33	<745	N/A
13	floor	<20	<258	<33	<745	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
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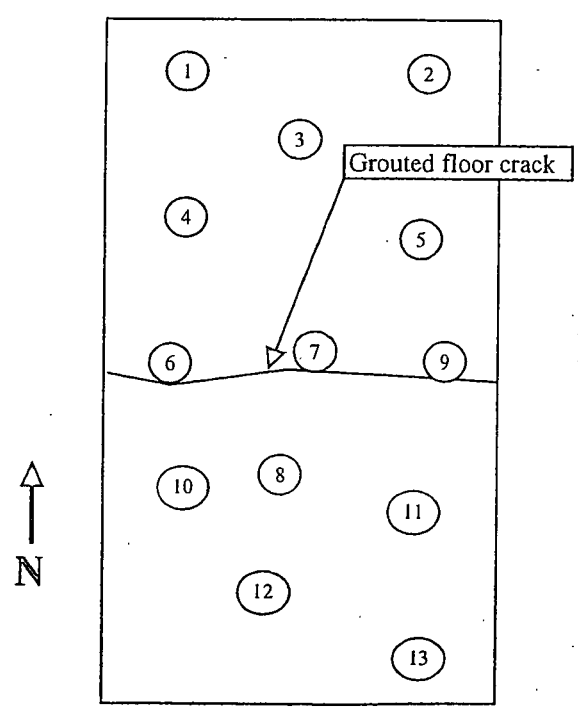
N/A	N/A	N/A	N/A	N/A	N/A	N/A

MAP



Date Reviewed: 11/9/04 **RS Supervision** [redacted]

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1390
Cal Due	2/16/05	Cal Due	N/A	Cal Due	*10/26/04*
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	1.0 cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	35 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1390
Cal Due	2/16/05	Cal Due	N/A	Cal Due	10/26/04
Bkg	89.1 cpmβ	Bkg	N/A cpmβ	Bkg	455.0 cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	186 dpmβ	MDA	200 dpmβ	MDA	463 dpmβ

Survey Tracking # 883-04-S961

Survey Type: Contamination

Building: 883

Location: Rm 144

Purpose: Expansion Joint Post Decon (Pre-Fix)

RWP #: N/A

Date: 10/11/04 Time: 1000

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclide of concern is Depleted Uranium only. Default efficiencies and MDC's for DU was used. Survey performed post decon of expansion joint room 144.

SURVEY RESULTS

COPY

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Expansion Joint Floor	<18	<35	<35	<186	<463	<463
2	Expansion Joint Floor	<18	<35	<35	<186	2350	<463
3	Expansion Joint Floor	<18	<35	<35	<186	1775	<463
4	Expansion Joint Floor	<18	<35	<35	<186	1560	<463
5	Expansion Joint Floor	<18	<35	<35	<186	995	<463
6	Expansion Joint Floor	<18	<35	<35	<186	745	<463
7	Expansion Joint Floor	<18	<35	<35	<186	515	<463
8	Expansion Joint Floor	<18	<35	<35	<186	<463	<463
9	Expansion Joint Floor	<18	<35	<35	<186	<463	<463
10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 10/11/04 **RS Supervisio** [redacted]

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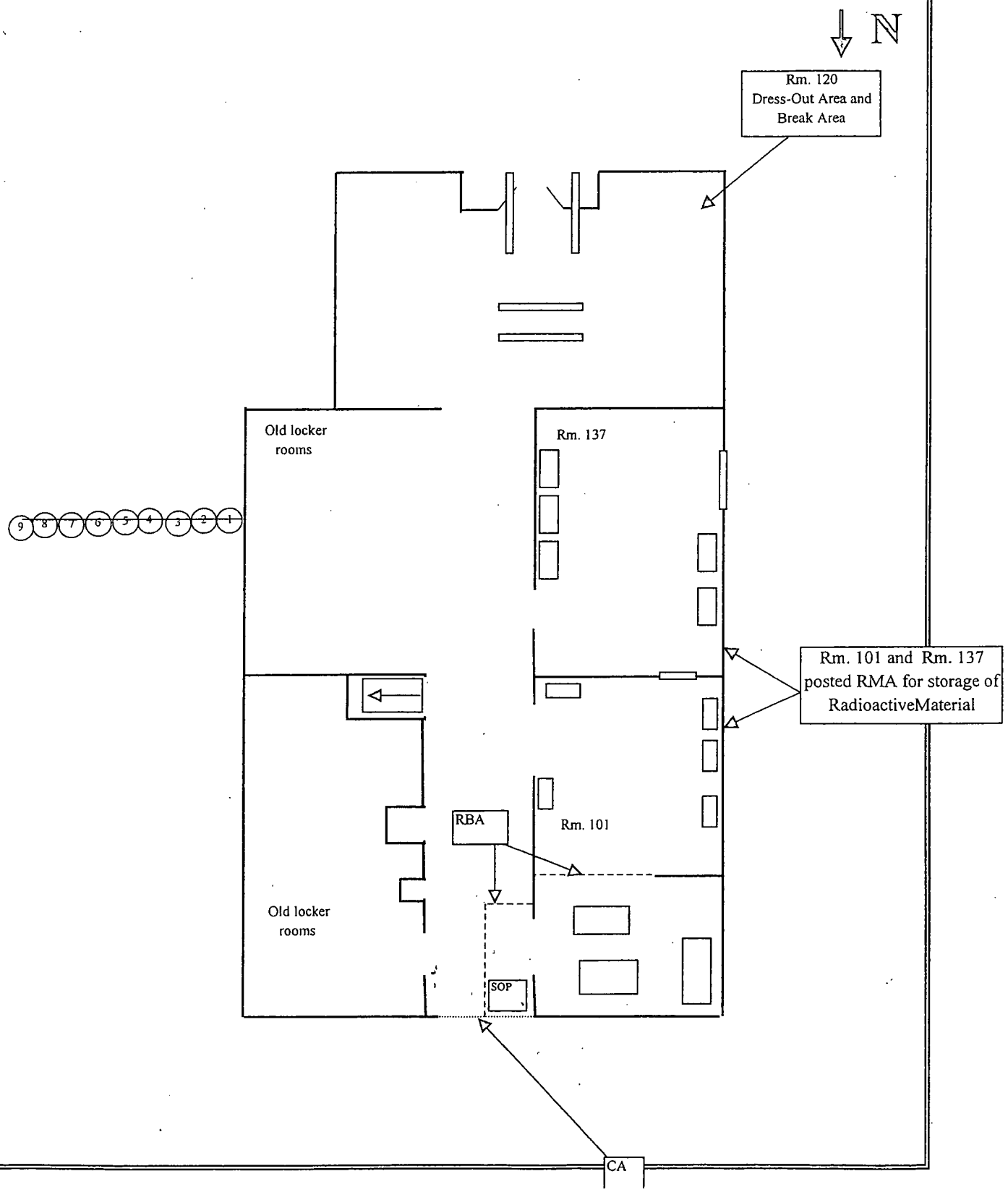
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



217

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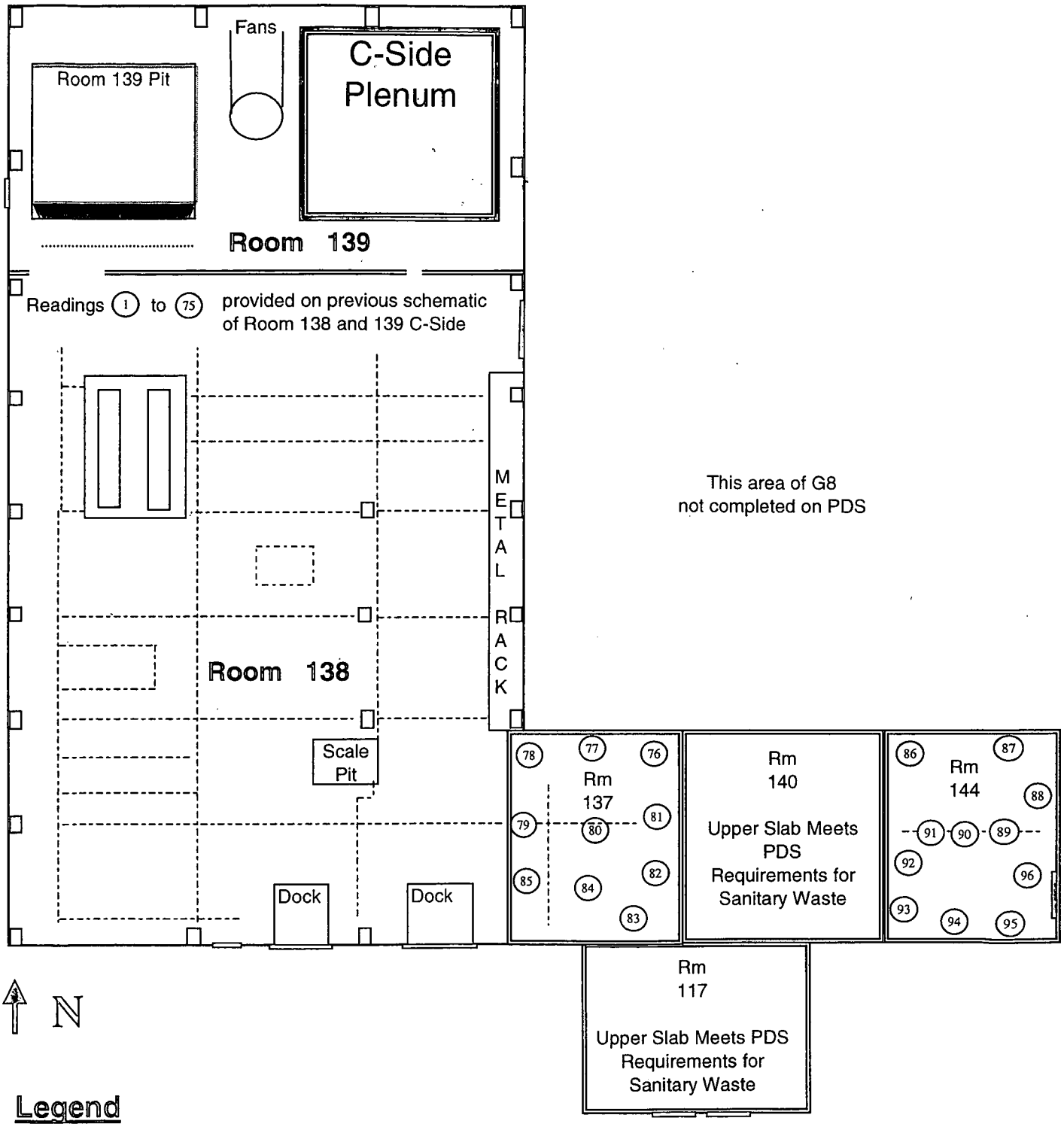
Building 883 G8 Office Area South and Room 144 Slab Contamination Data Summary

PRE-Fixative

Survey #	Room or Survey Location	Beta Accessible Fixed dpm/100cm^2
76	Room 137 Slab	40,000
77	Room 137 Slab	6,000
78	Room 137 Slab	10,000
79	Room 137 Slab	12,000
80	Room 137 Slab	25,000
81	Room 137 Slab	5,000
82	Room 137 Slab	10,000
83	Room 137 Slab	9,000
84	Room 137 Slab	10,000
85	Room 137 Slab	10,000
86	Room 144 Slab	< 745
87	Room 144 Slab	<745
88	Room 144 Slab	< 745
89	Room 144 Slab	2,350
90	Room 144 Slab	1,775
91	Room 144 Slab	4,140
92	Room 144 Slab	4,790
93	Room 144 Slab	3,320
94	Room 144 Slab	< 745
95	Room 144 Slab	< 745
96	Room 144 Slab	< 745

Building 883 G8 Office Area South and Room 144 Slab Summary Data



Legend

Removable Alpha & Removable Beta Contamination Meets PDS Limits on C-Side Slab, Pit Areas, Room 137 Slab, and Room 144 Slab. Room 140 and 117 Slabs meet PDS limits. Several grouted sanitary waste drains will be handled as LLW.

See Attached Bldg. 883 G8 Office Area South and Room 144 Slab Contamination Data Summary for Fixed Levels.

- - - Denotes Cracks and Seams in Concrete Slab

POST-FIXATIVE LLW SURVEYS

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Eberline	Mfg.	NE Electra	Mfg.	NE Electra
Model	SAC-4	Model	DP-6	Model	DP-6
Serial #	961	Serial #	1434	Serial #	N/A
Cal Due	4/14/05	Cal Due	4/26/05	Cal Due	N/A
Bkg	0.4 cpmα	Bkg	7.0 cpmα	Bkg	N/A cpmα
Efficiency	33.00 %	Efficiency	22.30 %	Efficiency	N/A %
MDA	20 dpmα	MDA	67 dpmα	MDA	N/A dpmα
Mfg.	Eberline	Mfg.	NE Electra	Mfg.	NE Electra
Model	BC-4	Model	DP-6	Model	N/A
Serial #	928	Serial #	1434	Serial #	N/A
Cal Due	10/22/05	Cal Due	4/26/05	Cal Due	N/A
Bkg	46.4 cpmβ	Bkg	478.0 cpmβ	Bkg	N/A cpmβ
Efficiency	14.00 %	Efficiency	22.00 %	Efficiency	N/A %
MDA	258 dpmβ	MDA	474 dpmβ	MDA	N/A dpmβ

Survey Tracking #	883-04-S1273
Survey Type:	Contamination
Building:	883 - Room 110
Location:	Floor Survey
Purpose:	Post fixative application
RWP #:	05-880-001

[redacted]

RCT:	N/A	N/A	N/A
	Print name	Signature	Emp #

PRN/REN # : N/A

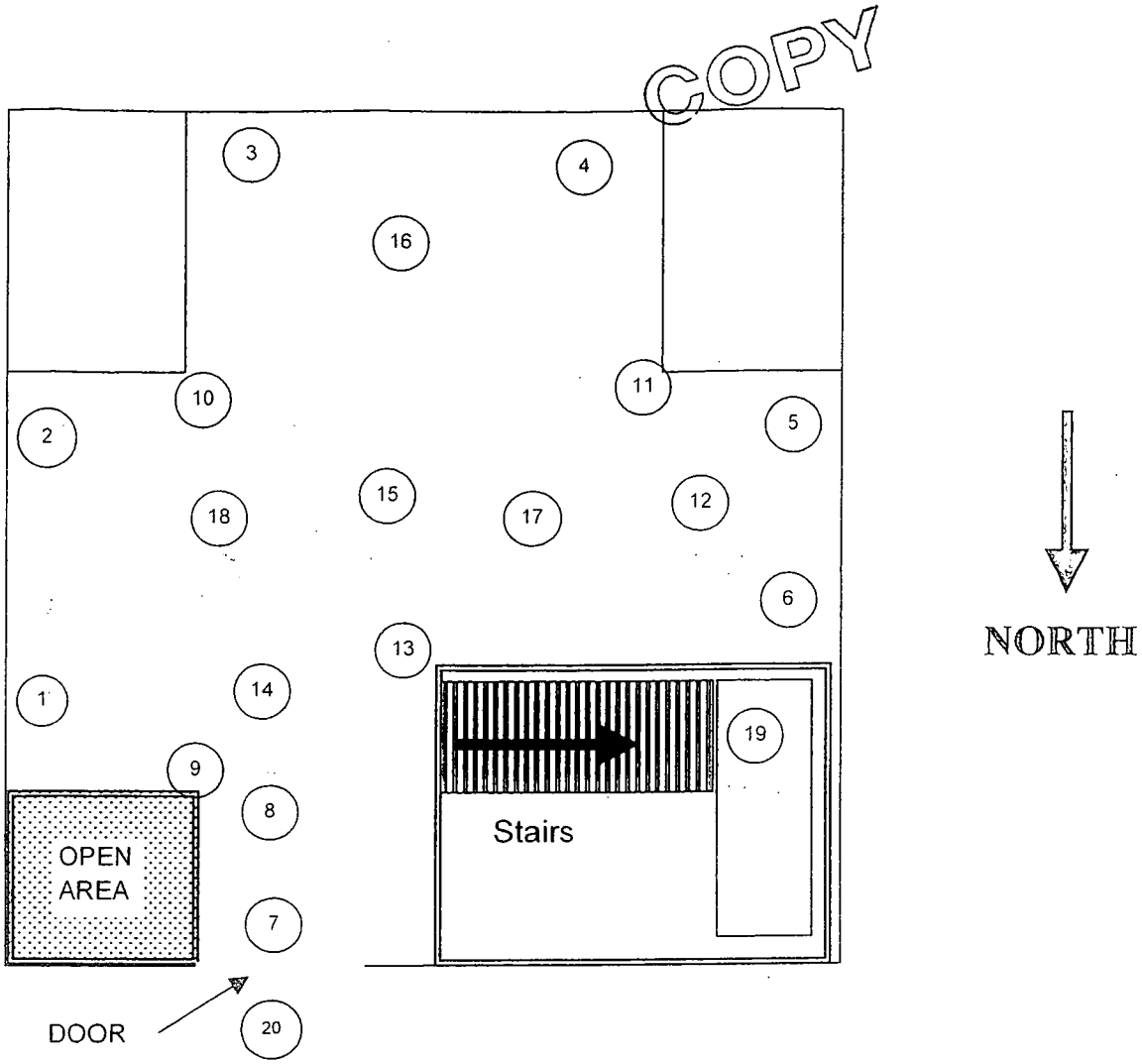
Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Floor - Near East Wall	<20	NA	N/A	<258	2,545	N/A
2	Floor - Near East Wall	<20	NA	N/A	<258	1,550	N/A
3	Floor - Near South Wall	<20	NA	N/A	<258	1,868	N/A
4	Floor - Near South Wall	<20	NA	N/A	<258	2,141	N/A
5	Floor - Near West Wall	<20	NA	N/A	<258	1,205	N/A
6	Floor - Near West Wall	<20	NA	N/A	<258	564	N/A
7	Floor - Near Doorway	<20	NA	N/A	<258	5,345	N/A
8	Floor - Inside doorway	<20	NA	N/A	<258	6,245	N/A
9	Floor - Near Handrail corner - Northeast	<20	NA	N/A	<258	3,945	N/A
10	Floor - exterior corner Southeast	<20	NA	N/A	<258	2,641	N/A
11	Floor - exterior corner Southwest	<20	NA	N/A	<258	1,686	N/A
12	Floor - 5 ' from west wall	<20	NA	N/A	<258	2,114	N/A
13	Floor - Near Handrail corner at top of stairs	<20	NA	N/A	<258	2,327	N/A
14	Floor - Midway between handrail corners	<20	NA	N/A	<258	1,877	N/A
15	Floor - Middle of room	<20	NA	N/A	<258	2,368	N/A
16	Floor - 5 ' from south wall	<20	NA	N/A	<258	1,414	N/A
17	Floor - 4' west of middle of room	<20	NA	N/A	<258	5,032	N/A
18	Floor - 4' east of middle of room	<20	NA	N/A	<258	4,141	N/A
19	Floor - Landing at base of first flight of stairs	<20	NA	N/A	<258	12,532	N/A
20	Floor - 1' North - outside door to 110	<20	NA	N/A	<258	5,186	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A

Date Reviewed: 1/16/05 **RS Supervision:** [redacted]

221



Survey 883-04-51273

222

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	35.10 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	71 dpmα
Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	68.9 cpmβ	Bkg	N/A cpmβ	Bkg	510.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	205 dpmβ	MDA	dpmβ	MDA	490 dpmβ

Survey Tracking # 883-04-S1288

Survey Type: Contamination

Building: 883

Location: Rm# 110 WALLS

Purpose: Post fixative

RWP #: 05-880-0001

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Rm # 110 North Wall (Door)	<18	<71	N/A	<205	<490	N/A
2	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
3	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
4	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
5	Rm # 110 East Wall	<18	<71	N/A	<205	525	N/A
6	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
7	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
8	Rm # 110 South Wall	<18	<71	N/A	<205	<490	N/A
9	Rm # 110 South Wall	<18	<71	N/A	<205	<490	N/A
10	Rm # 110 South Wall	<18	<71	N/A	<205	<490	N/A
11	Rm # 110 South Wall	<18	<71	N/A	<205	545	N/A
12	Rm # 110 South Wall	<18	<71	N/A	<205	770	N/A
13	Rm # 110 South Wall	<18	<71	N/A	<205	<490	N/A
14	Rm # 110 West Wall	<18	<71	N/A	<205	695	N/A
15	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
16	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
17	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
18	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
19	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
20	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A

Date Reviewed: 1/21/05 **RS Supervi** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
22	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
23	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
24	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
25	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
26	Rm # 110 North Wall (Door)	<18	<71	N/A	<205	<490	N/A
27	Rm # 110 East Wall	<18	<71	N/A	<205	755	N/A
28	Rm # 110 East Wall	<18	<71	N/A	<205	825	N/A
29	Rm # 110 East Wall (Beam)	<18	<71	N/A	<205	715	N/A
30	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
31	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
32	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
33	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
34	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
35	Rm # 110 East Wall (Beam)	<18	<71	N/A	<205	<490	N/A
36	Rm # 110 East Wall	<18	<71	N/A	<205	<490	N/A
37	Rm # 110 South Wall	<18	<71	N/A	<205	<490	N/A
38	Rm # 110 South Wall	<18	<71	N/A	<205	<490	N/A
39	Rm # 110 South Wall	<18	<71	N/A	<205	880	N/A
40	Rm # 110 South Wall	<18	<71	N/A	<205	580	N/A
41	Rm # 110 Center I Beam	<18	<71	N/A	<205	7000	N/A
42	Rm # 110 Center I Beam	<18	<71	N/A	<205	7750	N/A
43	Rm # 110 Center I Beam	<18	<71	N/A	<205	2630	N/A
44	Rm # 110 Center I Beam	<18	<71	N/A	<205	3000	N/A
45	Rm # 110 Center I Beam	<18	<71	N/A	<205	60K	N/A
46	Rm # 110 South Wall	<18	<71	N/A	<205	<490	N/A
47	Rm # 110 South Wall	<18	<71	N/A	<205	<490	N/A
48	Rm # 110 South Wall	<18	<71	N/A	<205	620	N/A
49	Rm # 110 South Wall (Top of Ledge)	<18	<71	N/A	<205	<490	N/A
50	Rm # 110 West Wall	<18	<71	N/A	<205	920	N/A
51	Rm # 110 West Wall	<18	<71	N/A	<205	750	N/A
52	Rm # 110 West Wall	<18	<71	N/A	<205	790	N/A
53	Rm # 110 West Wall	<18	<71	N/A	<205	640	N/A
54	Rm # 110 West Wall (Beam)	<18	<71	N/A	<205	<490	N/A
55	Rm # 110 West Wall	<18	<71	N/A	<205	675	N/A
55	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
56	Rm # 110 West Wall	<18	<71	N/A	<205	<490	N/A
57	Rm # 110 West Wall	<18	<71	N/A	<205	510	N/A
58	Rm # 110 West Wall (Beam)	<18	<71	N/A	<205	805	N/A
59	Rm # 110 North Wall	<18	<71	N/A	<205	650	N/A
60	Rm # 110 North Wall (Door Rail)	<18	<71	N/A	<205	<490	N/A
61	Rm # 110 North Wall	<18	<71	N/A	<205	<490	N/A
62	Rm # 110 North Wall	<18	<71	N/A	<205	<490	N/A
63	Rm # 110 North Wall	<18	<71	N/A	<205	<490	N/A
64	Rm # 110 North Wall (Ledge)	<18	<71	N/A	<205	<490	N/A
65	Rm # 110 North Wall	<18	<71	N/A	<205	<490	N/A
66	Rm # 110 North Wall (Ledge)	<18	<71	N/A	<205	955	N/A

883-04-51288

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
67	Rm # 110 North Wall (Ledge)	<18	<71	N/A	<205	565	N/A
68	Rm # 110 North Wall (Ledge)	<18	<71	N/A	<205	1930	N/A
69	Rm # 110 North Wall	<18	<71	N/A	<205	<490	N/A
70	Rm # 110 North Wall	<18	<71	N/A	<205	<490	N/A
71	Rm # 110 North Wall	<18	<71	N/A	<205	<490	N/A
72	Rm # 110 North Wall (Ledge)	<18	<71	N/A	<205	<490	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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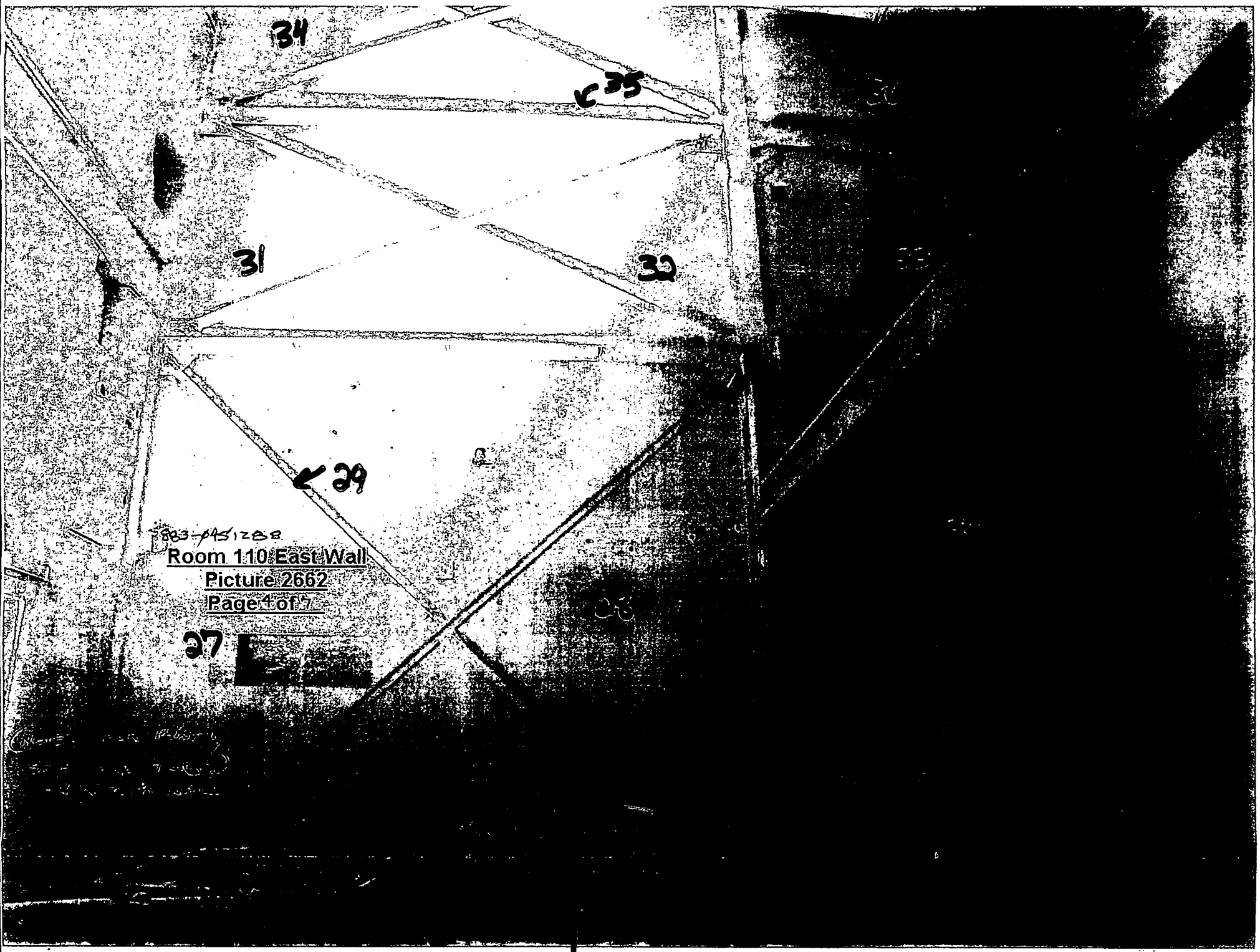
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-51288

225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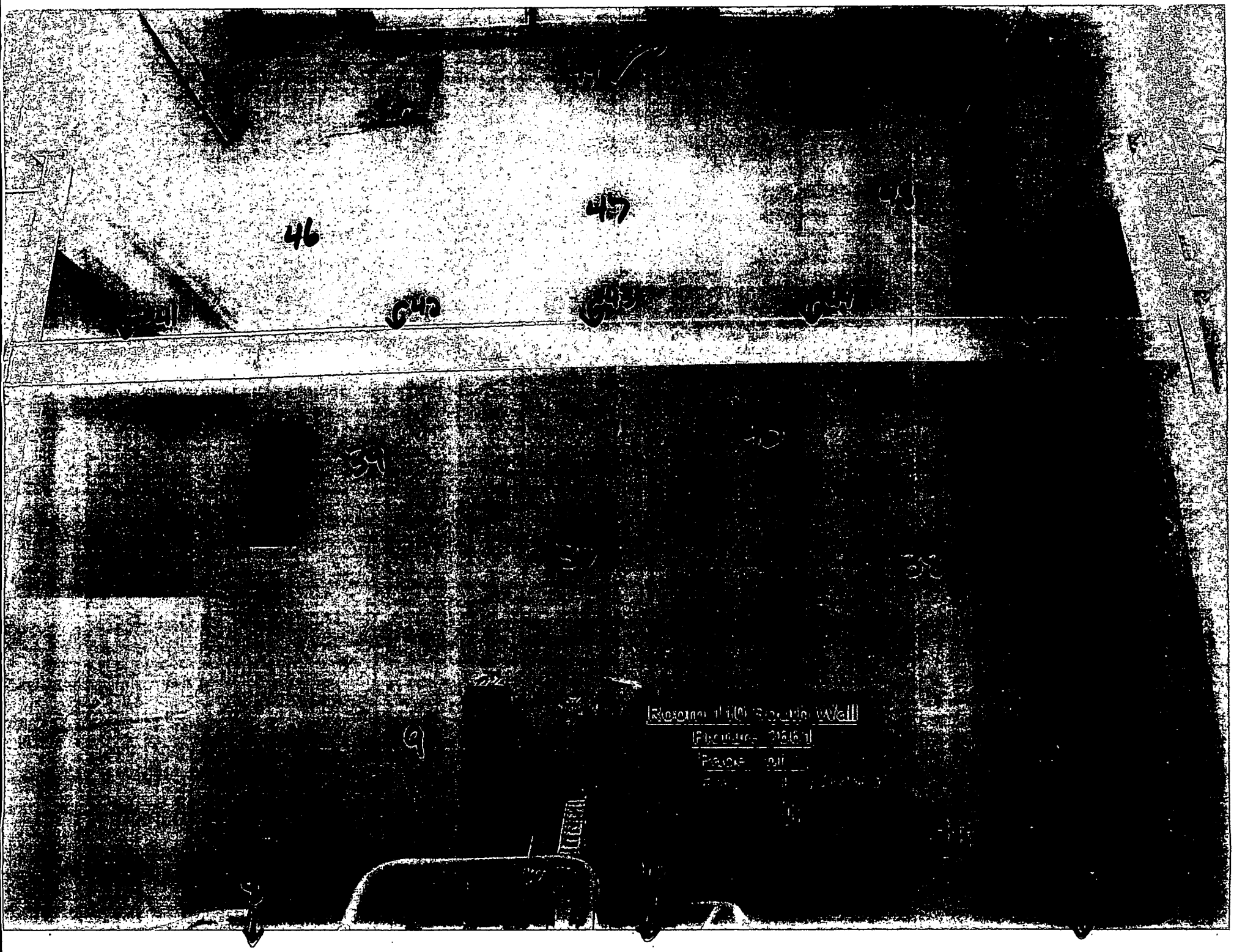
883-0451288
Room 110 East Wall
Picture 2662
Page 4 of 7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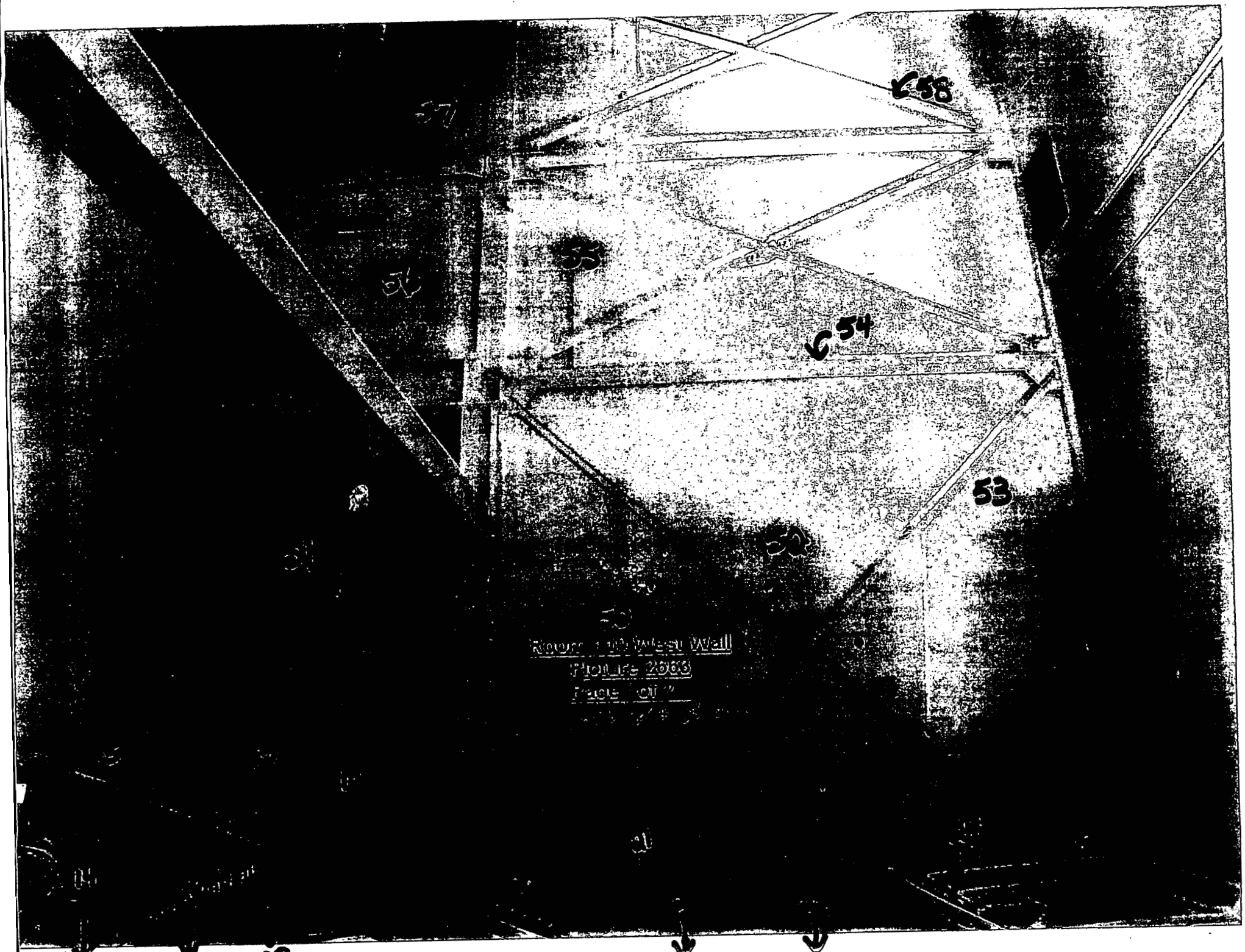
Rosario (10) Retaining Wall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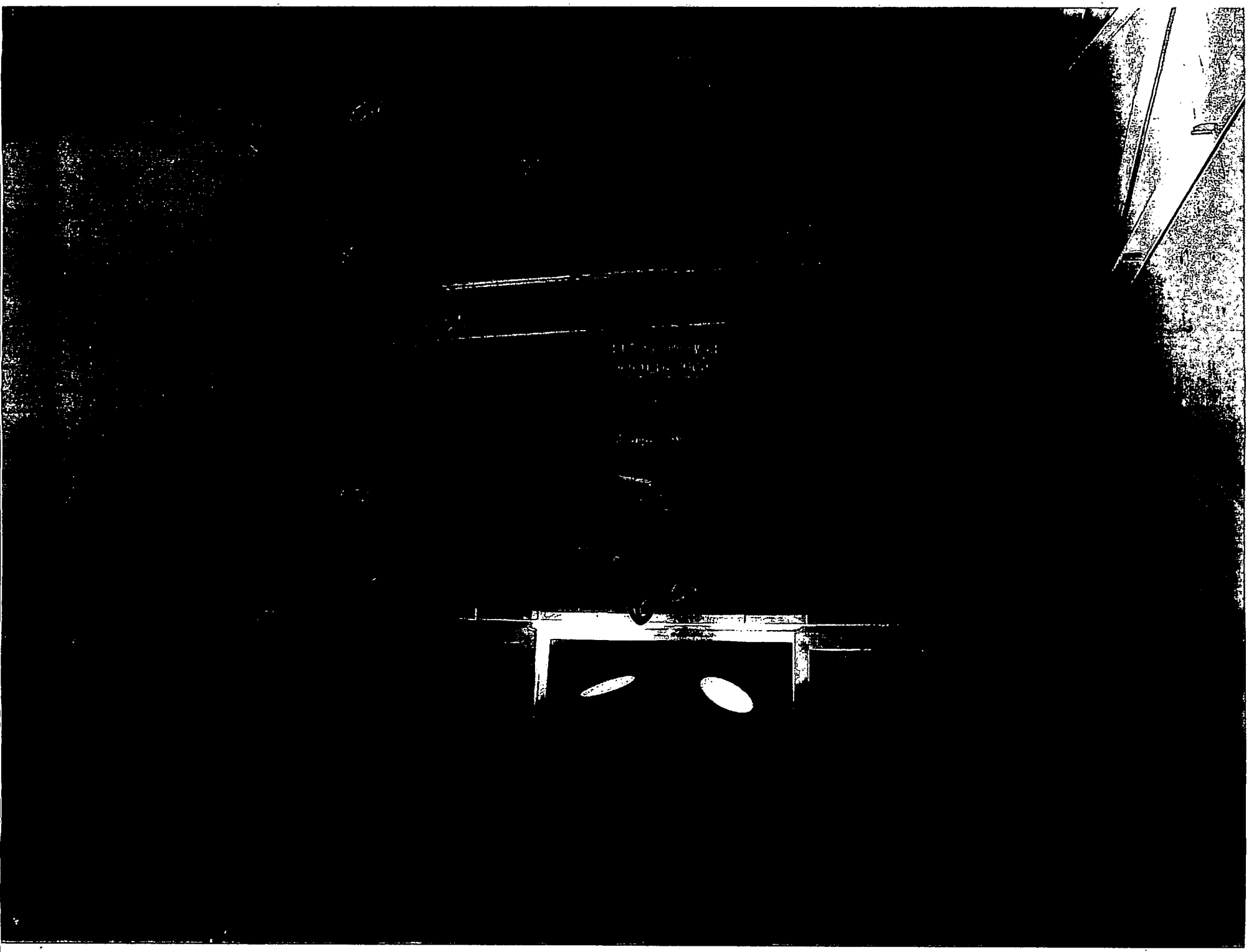

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	35.10 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	71 dpmα

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	68.9 cpmβ	Bkg	N/A cpmβ	Bkg	510.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	205 dpmβ	MDA	dpmβ	MDA	490 dpmβ

Survey Tracking # 883-04-S1289

Survey Type: Contamination

Building: 883

Location: Rm# 110 Overhead

Purpose: Post fixative

RWP #: 05-880-0001

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Rm # 110 Inside Duct	<18	<71	N/A	<205	<490	N/A
2	Rm # 110 Outside Duct	<18	<71	N/A	<205	<490	N/A
3	Rm # 110 Inside Duct	<18	<71	N/A	<205	<490	N/A
4	Rm # 110 Outside Duct	<18	<71	N/A	<205	<490	N/A
5	Rm # 110 Inside Duct	<18	<71	N/A	<205	525	N/A
6	Rm # 110 Side of Duct	<18	<71	N/A	<205	<490	N/A
7	Rm # 110 Inside Duct	<18	<71	N/A	<205	<490	N/A
8	Rm # 110 Beam	<18	<71	N/A	<205	<490	N/A
9	Rm # 110 Inside Duct	<18	<71	N/A	<205	<490	N/A
10	Rm # 110 Outside Duct	<18	<71	N/A	<205	<490	N/A
11	Rm # 110 Inside Duct	<18	<71	N/A	<205	545	N/A
12	Rm # 110 Outside Duct	<18	<71	N/A	<205	770	N/A
13	Rm # 110 Inside Duct	<18	<71	N/A	<205	<490	N/A
14	Rm # 110 Outside Duct	<18	<71	N/A	<205	695	N/A
15	Rm # 110 Inside Duct	<18	<71	N/A	<205	<490	N/A
16	Rm # 110 Side of Duct	<18	<71	N/A	<205	<490	N/A
17	Rm # 110 Inside Duct	<18	<71	N/A	<205	<490	N/A
18	Rm # 110 Outside Duct	<18	<71	N/A	<205	<490	N/A
19	Rm # 110 Inside Duct	<18	<71	N/A	<205	<490	N/A
20	Rm # 110 Outside Duct	<18	<71	N/A	<205	<490	N/A

Date Reviewed: 1/21/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Rm # 110 Inside Duct	<18	<71	N/A	<205	635	N/A
22	Rm # 110 Outside Duct	<18	<71	N/A	<205	<490	N/A
23	Rm # 110 Inside Duct	<18	<71	N/A	<205	<490	N/A
24	Rm # 110 Side of Duct	<18	<71	N/A	<205	545	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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883-04-51289

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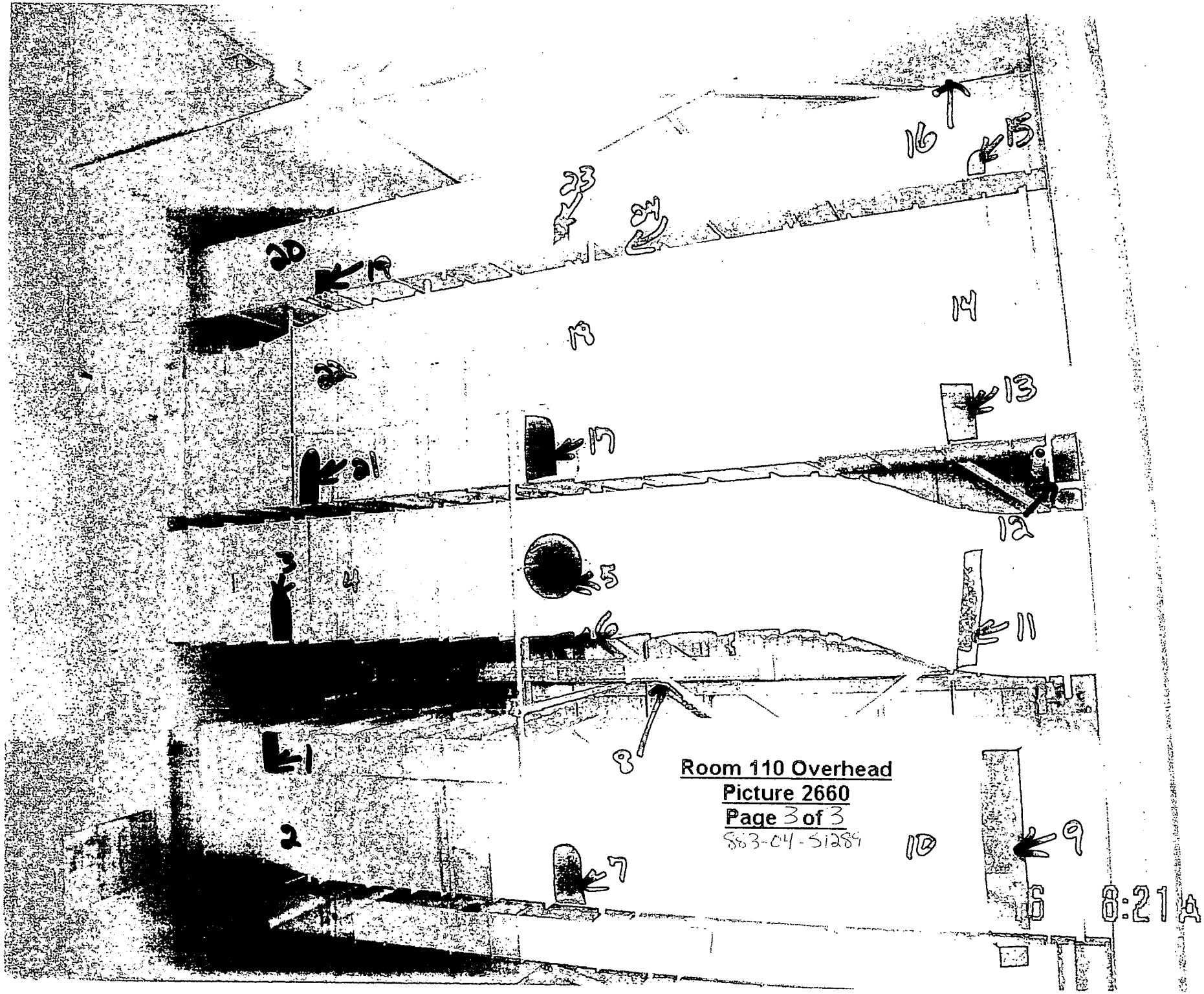


Room 110 Overhead
Picture 2660
Page 3 of 3
883-04-51289

8:21 AM

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	35.10 %	Efficiency	%	Efficiency	20.00 %
MDA	18 dpmα	MDA	dpmα	MDA	66 dpmα

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	74.7 cpmβ	Bkg	N/A cpmβ	Bkg	506.0 cpmβ
Efficiency	25.00 %	Efficiency	%	Efficiency	22.00 %
MDA	205 dpmβ	MDA	dpmβ	MDA	488 dpmβ

Survey Tracking #	883-04-S1317
Survey Type:	Contamination
Building:	883
Location:	A-Side Bathroom & Closet
Purpose:	Post fixative
RWP #:	05-880-0001
Date:	1/21/05
Time:	16:00

[redacted]

RCT: N/A / N/A / N/A
Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above. Bathroom and Closet Floor survey is included on A-side Floor.

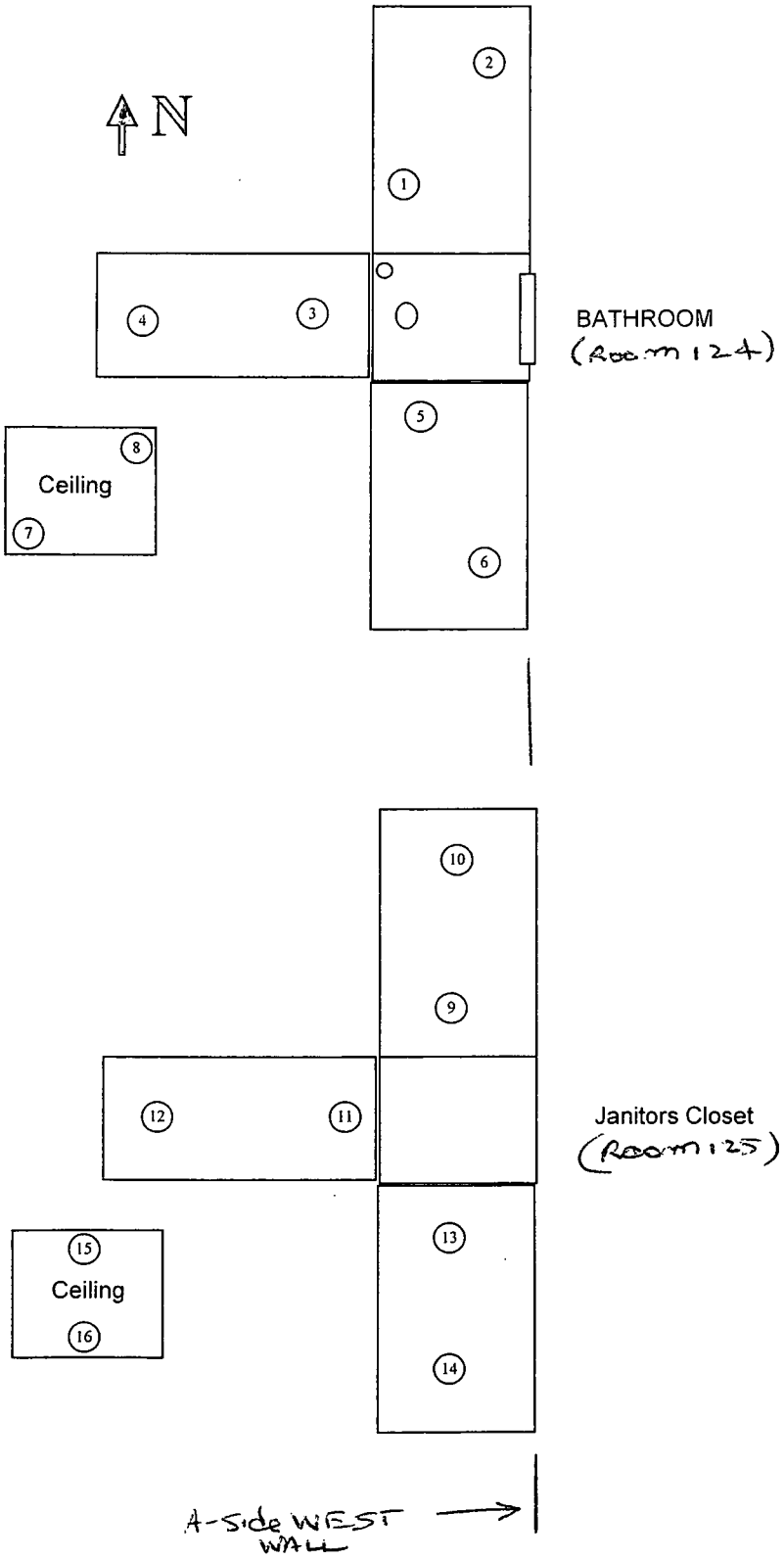
SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Bathroom North Wall	<18	<66	N/A	<205	<488	N/A
2	Bathroom North Wall	<18	<66	N/A	<205	<488	N/A
3	Bathroom West Wall	<18	<66	N/A	<205	<488	N/A
4	Bathroom West Wall	<18	<66	N/A	<205	<488	N/A
5	Bathroom South Wall	<18	<66	N/A	<205	<488	N/A
6	Bathroom South Wall	<18	<66	N/A	<205	<488	N/A
7	Bathroom Ceiling	<18	<66	N/A	<205	<488	N/A
8	Bathroom Ceiling	<18	<66	N/A	<205	<488	N/A
9	Closet North Wall	<18	<66	N/A	<205	<488	N/A
10	Closet North Wall	<18	<66	N/A	<205	<488	N/A
11	Closet West Wall	<18	<66	N/A	<205	<488	N/A
12	Closet West Wall	<18	<66	N/A	<205	<488	N/A
13	Closet South Wall	<18	<66	N/A	<205	<488	N/A
14	Closet South Wall	<18	<66	N/A	<205	<488	N/A
15	Closet Ceiling	<18	<66	N/A	<205	<488	N/A
16	Closet Ceiling	<18	<66	N/A	<205	<488	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



883-04-A1319

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143883	Serial #	N/A	Serial #	N/A
Cal Due	7/13/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	22.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	####### dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143883	Serial #	N/A	Serial #	N/A
Cal Due	7/13/05	Cal Due	N/A	Cal Due	N/A
Bkg	90.0 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	187 dpmβ	MDA	200 dpmβ	MDA	####### dpmβ

Survey Tracking #	883-04-S1324
Survey Type:	Contamination
Building:	883
Location:	B Side Bathroooms (Middle Area)
Purpose:	Post Paint
RWP #:	N/A
Date:	1/22/05
Time:	1300

[redacted]

RCT:	NA	/	NA	/	NA
	Print name		Signature		Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed post paint. Note: Swipes 1-10 South room and swipes 11-20 North Room.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Ceiling	<18	N/A	N/A	<189	N/A	N/A
2	Ceiling	<18	N/A	N/A	<189	N/A	N/A
3	Wall	<18	N/A	N/A	<189	N/A	N/A
4	Wall	<18	N/A	N/A	<189	N/A	N/A
5	Wall	<18	N/A	N/A	<189	N/A	N/A
6	Wall	<18	N/A	N/A	<189	N/A	N/A
7	Wall	<18	N/A	N/A	<189	N/A	N/A
8	Wall	<18	N/A	N/A	<189	N/A	N/A
9	Floor	<18	N/A	N/A	<189	N/A	N/A
10	Floor	<18	N/A	N/A	<189	N/A	N/A
11	Ceiling	<18	N/A	N/A	<189	N/A	N/A
12	Ceiling	<18	N/A	N/A	<189	N/A	N/A
13	Wall	<18	N/A	N/A	<189	N/A	N/A
14	Wall	<18	N/A	N/A	<189	N/A	N/A
15	Wall	<18	N/A	N/A	<189	N/A	N/A
16	Wall	<18	N/A	N/A	<189	N/A	N/A
17	Wall	<18	N/A	N/A	<189	N/A	N/A
18	Wall	<18	N/A	N/A	<189	N/A	N/A
19	Floor	<18	N/A	N/A	<189	N/A	N/A
20	Floor	[redacted]					

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

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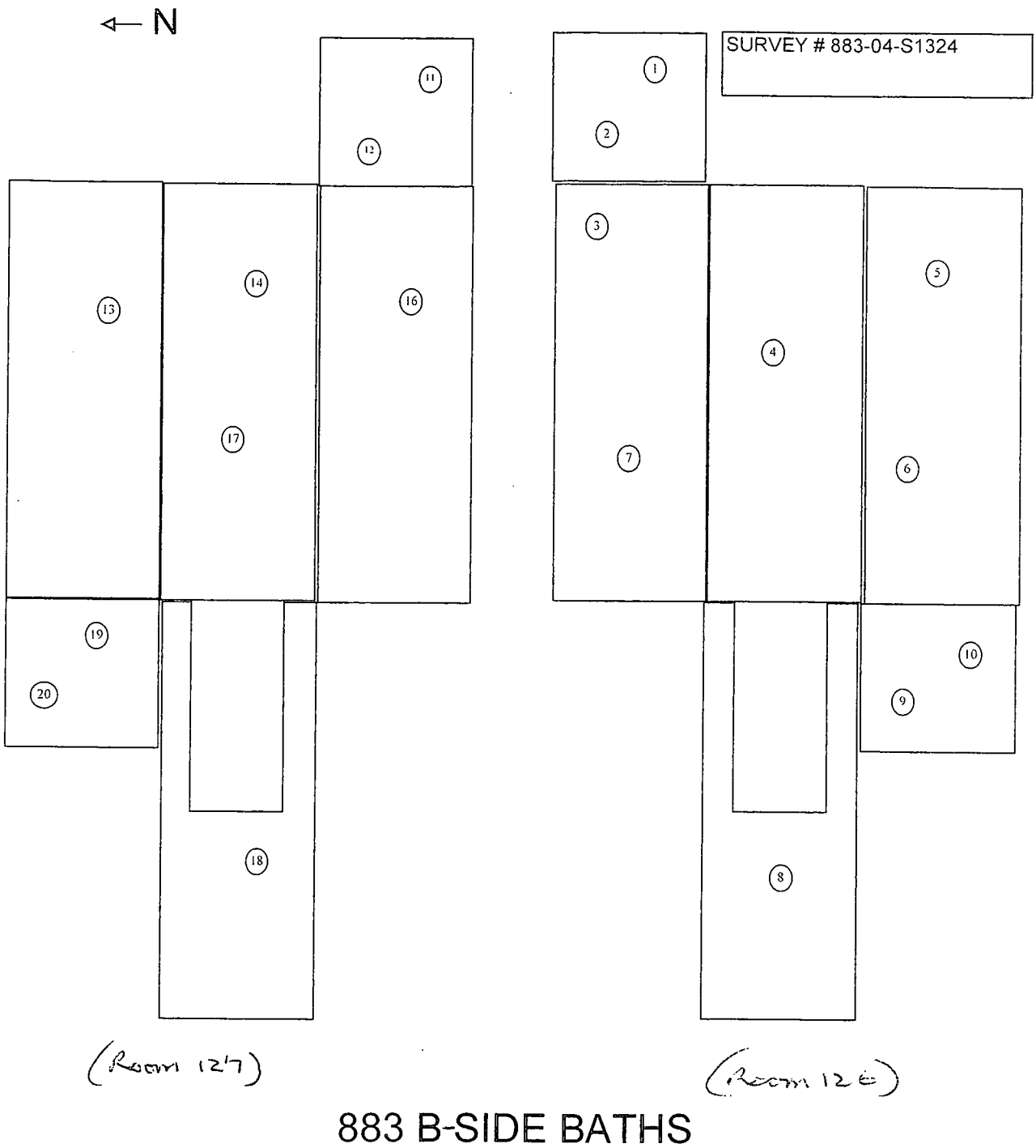
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



883 B-SIDE BATHS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	2373
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	0.3 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	22.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	64 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electr[redacted]
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	2373[redacted]
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/26/0[redacted]
Bkg	71.5 cpmβ	Bkg	N/A cpmβ	Bkg	508.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	168 dpmβ	MDA	200 dpmβ	MDA	489 dpmβ

Survey Tracking # 883-04-S1233

Survey Type: Contamination

Building: 883

Location: Room 111 Floor and Walls to 6'

Purpose: Post-Fixative Survey

RWP #: N/A

Date: 1/6/05 Time: 0930 [redacted]

RCT: NA / NA / NA

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed post paint application.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Floor	<18	N/A	N/A	<168	N/A	N/A
2	Wall	<18	N/A	N/A	<168	N/A	N/A
3	Inside Bolt Housing	<18	N/A	N/A	<168	N/A	N/A
4	cover	<18	N/A	N/A	<168	N/A	N/A
5	Wall	<18	N/A	N/A	<168	N/A	N/A
6	Wall	<18	N/A	N/A	<168	N/A	N/A
7	Floor	<18	N/A	N/A	<168	N/A	N/A
8	Gear Box	<18	N/A	N/A	<168	N/A	N/A
9	Wall	<18	N/A	N/A	<168	N/A	N/A
10	Structure Under Cover	<18	N/A	N/A	<168	N/A	N/A
11	Floor	<18	N/A	N/A	<168	N/A	N/A
12	Wall	<18	N/A	N/A	<168	N/A	N/A
13	Floor	<18	N/A	N/A	<168	N/A	N/A
14	Flange at Cover	<18	N/A	N/A	<168	N/A	N/A
15	Wall	<18	N/A	N/A	<168	N/A	N/A
16	Grout Berm	<18	N/A	N/A	<168	N/A	N/A
17	Grout Berm	<18	N/A	N/A	<168	N/A	N/A
18	Wall	<18	N/A	N/A	<168	N/A	N/A
19	Floor	<18	N/A	N/A	<168	N/A	N/A
20	Wall in Co[redacted]	[redacted]					

Date Reviewed: 1/6/05 **RS S**[redacted]

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Floor	<18	N/A	N/A	<168	N/A	N/A
22	Floor	<18	N/A	N/A	<168	N/A	N/A
23	Floor	<18	N/A	N/A	<168	N/A	N/A
24	Wall	<18	N/A	N/A	<168	N/A	N/A
25	Wall	<18	N/A	N/A	<168	N/A	N/A
26	Floor	<18	N/A	N/A	<168	N/A	N/A
27	Floor	<18	N/A	N/A	<168	N/A	N/A
28	Floor	<18	N/A	N/A	<168	N/A	N/A
29	Floor	<18	N/A	N/A	<168	N/A	N/A
30	Floor	<18	N/A	N/A	<168	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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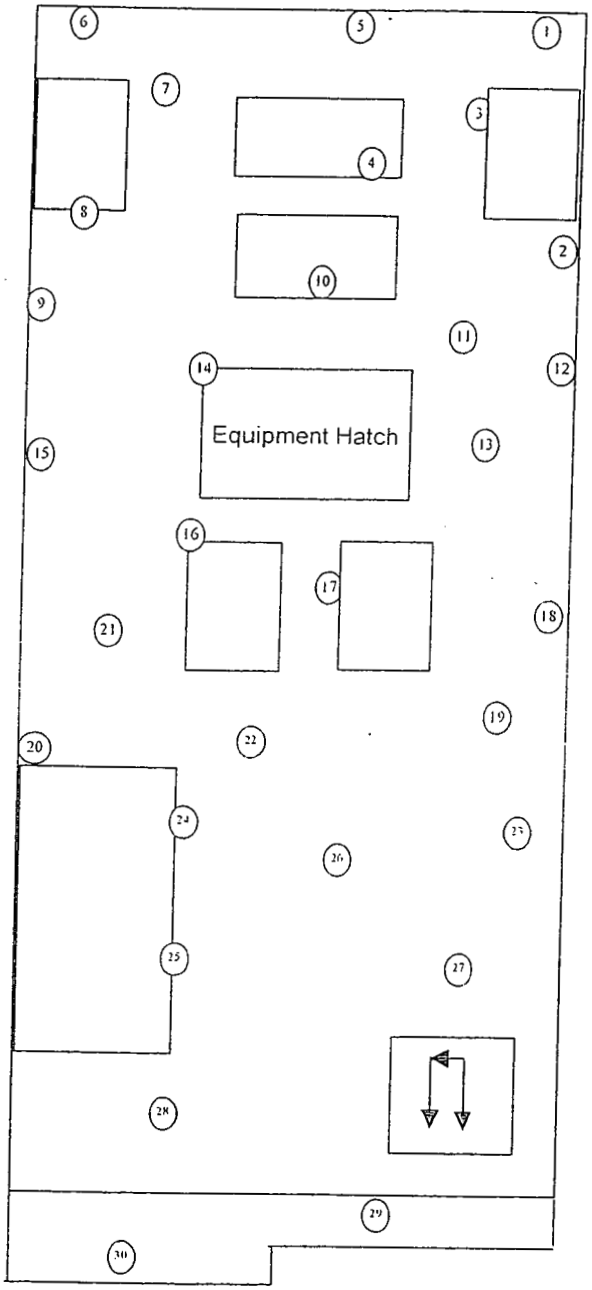
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-91233

238

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



Rm 111

~~983~~-04-51233

239

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE Electra
Model	2929	Model	N	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1569
Cal Due	2/16/05	Cal Due	N/A	Cal Due	2/3/05
Bkg	0.4 cpmα	Bkg	N/A microrem	Bkg	7.0 cpmα
Efficiency	34.80 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	18 dpmα	MDA	N/A microrem	MDA	68 dpmα
Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE Electra
Model	2929	Model	N	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1569
Cal Due	2/16/05	Cal Due	N/A	Cal Due	2/3/05
Bkg	76.9 cpmβ	Bkg	N/A cpmβ	Bkg	704.0 cpmβ
Efficiency	25.00 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	174 dpmβ	MDA	N/A dpmβ	MDA	573 dpmβ

Survey Tracking # 883-04-S1218

Survey Type: Contamination

Building: 883

Location: 111 OVERHEAD BEAMS AND RAILS

Purpose: POST PAINT

RWP #: 04-880-0002

Date: 12/30/04 Time: 1500

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern are Uranium. Survey done to characterizeoverhead and walls after room was painted. The top of the duct and above was inacessible in most areas of the room.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	I-BEAMS(EAST SIDE)	<18	<68	N/A	<174	<573	N/A
2	CRANE RAIL(EAST SIDE)	<18	<68	N/A	<174	2000	N/A
3	I-BEAMS(EAST SIDE)	<18	<68	N/A	<174	1200	N/A
4	ONTOP OF DUCT	<18	<68	N/A	<174	<573	N/A
5	CRANE RAIL(EAST SIDE)	<18	<68	N/A	<174	<573	N/A
6	I-BEAMS(EAST SIDE)	<18	<68	N/A	<174	1000	N/A
7	ONTOP OF DUCT	<18	<68	N/A	<174	<573	N/A
8	CRANE RAIL(EAST SIDE)	<18	<68	N/A	<174	<573	N/A
9	I-BEAMS(EAST SIDE)	<18	<68	N/A	<174	10000	N/A
10	CRANE RAIL(EAST SIDE)	<18	<68	N/A	<174	<573	N/A
11	I-BEAMS(EAST SIDE)	<18	<68	N/A	<174	<573	N/A
12	CRANE RAIL(EAST SIDE)	<18	<68	N/A	<174	2000	N/A
13	I-BEAMS(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
14	CRANE RAIL(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
15	I-BEAMS(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
16	CRANE RAIL(WEST SIDE)	<18	<68	N/A	<174	1500	N/A
17	I-BEAMS(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
18	CRANE RAIL(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
19	I-BEAMS(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
20	CRANE RAIL(WEST SIDE)	<18	<68	N/A	<174	<573	N/A

Date Reviewed: 1/18/05 **RS S**[redacted]

240

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

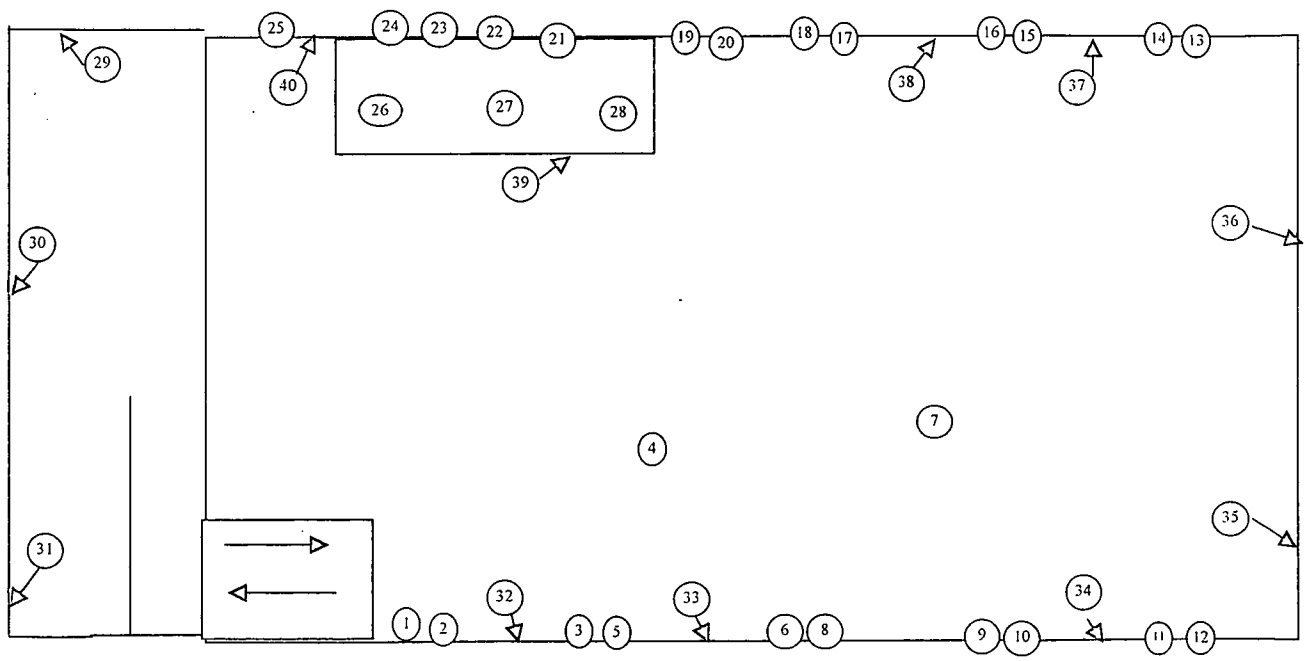
	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	I-BEAMS(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
22	CRANE RAIL(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
23	I-BEAMS(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
24	CRANE RAIL(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
25	CRANE RAIL(WEST SIDE)	<18	<68	N/A	<174	<573	N/A
26	CRANE ACESS ROOF	<18	<68	N/A	<174	8000	N/A
27	CRANE ACESS ROOF	<18	<68	N/A	<174	5000	N/A
28	CRANE ACESS ROOF	<18	<68	N/A	<174	10000	N/A
29	WALL(SOUTH WEST)	<18	<68	N/A	<174	<573	N/A
30	WALL(SOUTH)	<18	<68	N/A	<174	<573	N/A
31	WALL(SOUTH)	<18	<68	N/A	<174	<573	N/A
32	WALL(EAST)	<18	<68	N/A	<174	<573	N/A
33	WALL(EAST)	<18	<68	N/A	<174	<573	N/A
34	WALL(EAST)	<18	<68	N/A	<174	<573	N/A
35	WALL(NORTH)	<18	<68	N/A	<174	<573	N/A
36	WALL(NORTH)	<18	<68	N/A	<174	<573	N/A
37	WALL(WEST)	<18	<68	N/A	<174	<573	N/A
38	WALL(WEST)	<18	<68	N/A	<174	<573	N/A
39	WALL(WEST)	<18	<68	N/A	<174	<573	N/A
40	WALL(WEST)	<18	<68	N/A	<174	<573	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

241

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

Survey # 883-04-S1218



Attachment #1
Room 111

242

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE Electra
Model	2929	Model	N	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1410
Cal Due	3/14/05	Cal Due	N/A	Cal Due	1/26/05
Bkg	0.2 cpmα	Bkg	N/A microrem	Bkg	3.0 cpmα
Efficiency	35.80 %	Efficiency	N/A %	Efficiency	21.90 %
MDA	18 dpmα	MDA	N/A microrem	MDA	49 dpmα
Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE Electra
Model	2929	Model	N	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1410
Cal Due	3/14/05	Cal Due	N/A	Cal Due	1/26/05
Bkg	72.0 cpmβ	Bkg	N/A cpmβ	Bkg	462.0 cpmβ
Efficiency	25.00 %	Efficiency	N/A %	Efficiency	22.00 %
MDA	169 dpmβ	MDA	N/A dpmβ	MDA	467 dpmβ

Survey Tracking # 883-04-S1247

Survey Type: Contamination

Building: 883

Location: ROOM #111

Purpose: ROOM CHARACTERIZATION (Post Fix)

RWP #: N/A

Date: 1/10/05 Time: 0800

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern are Depleted Uranium only. Beta CF Applied. Survey performed as room characterization of room #111. Smears taken inside and outside of supply and exhaust duct in overhead.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Inside supply duct	<18	<49	N/A	<169	<467	N/A
2	Outside supply duct	<18	<49	N/A	<169	<467	N/A
3	Inside supply duct	<18	<49	N/A	<169	<467	N/A
4	Outside supply duct	<18	<49	N/A	<169	<467	N/A
5	Inside supply duct	<18	<49	N/A	<169	<467	N/A
6	Outside supply duct	<18	<49	N/A	<169	<467	N/A
7	Inside supply duct	<18	<49	N/A	<169	<467	N/A
8	Outside supply duct	<18	<49	N/A	<169	<467	N/A
9	Inside supply duct	<18	<49	N/A	<169	<467	N/A
10	Outside supply duct	<18	<49	N/A	<169	<467	N/A
11	Inside supply duct	<18	<49	N/A	<169	<467	N/A
12	Outside supply duct	<18	<49	N/A	<169	<467	N/A
13	Inside supply duct	<18	<49	N/A	<169	<467	N/A
14	Outside supply duct	<18	<49	N/A	<169	<467	N/A
15	Inside supply duct	<18	<49	N/A	<169	<467	N/A
16	Outside supply duct	<18	<49	N/A	<169	<467	N/A
17	Inside supply duct	<18	<49	N/A	<169	<467	N/A
18	Outside supply duct	<18	<49	N/A	<169	<467	N/A
19	Inside supply duct	<18	<49	N/A	<169	<467	N/A
20	Outside supply duct	<18	<49	N/A	<169	<467	N/A

Date Reviewed: 1/14/05 **RS Supervisi** [redacted]

COPY

243

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

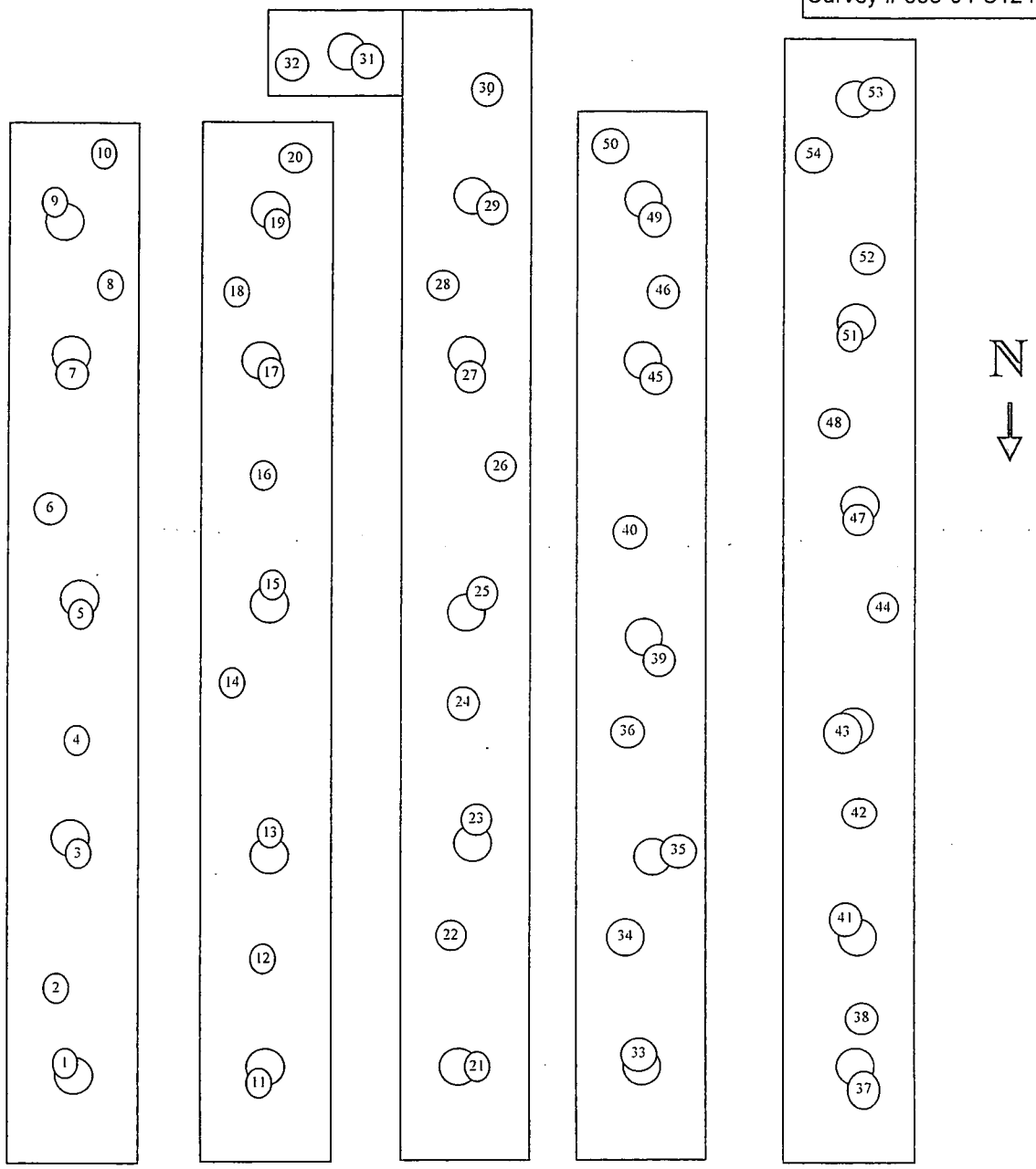
SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Inside supply duct	<18	<49	N/A	<169	<467	N/A
22	Outside supply duct	<18	<49	N/A	<169	<467	N/A
23	Inside supply duct	<18	<49	N/A	<169	<467	N/A
24	Outside supply duct	<18	<49	N/A	<169	<467	N/A
25	Inside supply duct	<18	<49	N/A	<169	<467	N/A
26	Outside supply duct	<18	<49	N/A	<169	<467	N/A
27	Inside supply duct	<18	<49	N/A	<169	<467	N/A
28	Outside supply duct	<18	<49	N/A	<169	<467	N/A
29	Inside supply duct	<18	<49	N/A	<169	<467	N/A
30	Outside supply duct	<18	<49	N/A	<169	<467	N/A
31	Inside supply duct	<18	<49	N/A	<169	<467	N/A
32	Outside supply duct	<18	<49	N/A	<169	<467	N/A
33	Inside supply duct	<18	<49	N/A	<169	<467	N/A
34	Outside supply duct	<18	<49	N/A	<169	<467	N/A
35	Inside supply duct	<18	<49	N/A	<169	<467	N/A
36	Outside supply duct	<18	<49	N/A	<169	<467	N/A
37	Inside exhaust duct	<18	<49	N/A	<169	<467	N/A
38	Outside exhaust duct	<18	<49	N/A	<169	<467	N/A
39	Inside supply duct	<18	<49	N/A	<169	<467	N/A
40	Outside supply duct	<18	<49	N/A	<169	<467	N/A
41	Inside exhaust duct	<18	<49	N/A	<169	<467	N/A
42	Outside exhaust duct	<18	<49	N/A	<169	<467	N/A
43	Inside exhaust duct	<18	<49	N/A	<169	<467	N/A
44	Outside exhaust duct	<18	<49	N/A	<169	<467	N/A
45	Inside supply duct	<18	<49	N/A	<169	<467	N/A
46	Outside supply duct	<18	<49	N/A	<169	<467	N/A
47	Inside exhaust duct	<18	<49	N/A	<169	<467	N/A
48	Outside exhaust duct	<18	<49	N/A	<169	<467	N/A
49	Inside supply duct	<18	<49	N/A	<169	<467	N/A
50	Outside supply duct	<18	<49	N/A	<169	<467	N/A
51	Inside exhaust duct	<18	<49	N/A	<169	<467	N/A
52	Outside exhaust duct	<18	<49	N/A	<169	<467	N/A
53	Inside exhaust duct	<18	<49	N/A	<169	<467	N/A
54	Outside exhaust duct	<18	<49	N/A	<169	<467	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

Survey # 883-04-S1247



Building 883 G-4 Room 111

Overhead Ducts Inside Openings
and External Surfaces
Post-Fixative Characterization Survey

245

ATTACHMENT B-6

East Annex LLW Surveys

PRE-FIXATIVE LLW SURVEYS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

COPY

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1515
Cal Due	2/16/05	Cal Due	N/A	Cal Due	11/25/04
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	4.0 cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	22.70 %
MDA	18 dpmα	MDA	20 dpmα	MDA	53 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1515
Cal Due	2/16/05	Cal Due	N/A	Cal Due	11/25/04
Bkg	92.4 cpmβ	Bkg	N/A cpmβ	Bkg	657.0 cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	190 dpmβ	MDA	200 dpmβ	MDA	554 dpmβ

Survey Tracking # 883-04-S683

Survey Type: Contamination

Building: 883

Location: North Annex Wall Closest /Two Pits

Purpose: Pre-Job Survey, Annex Demo (PRE-FIX)

RWP #: N/A

Date: 9/30/04 Time: 1330

[redacted]

RCT: NA / NA / NA

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclide of concern is Depleted Uranium with a default beta efficiency applied. Survey performed to verify contamination levels prior to performing D & D work of Annex walls.

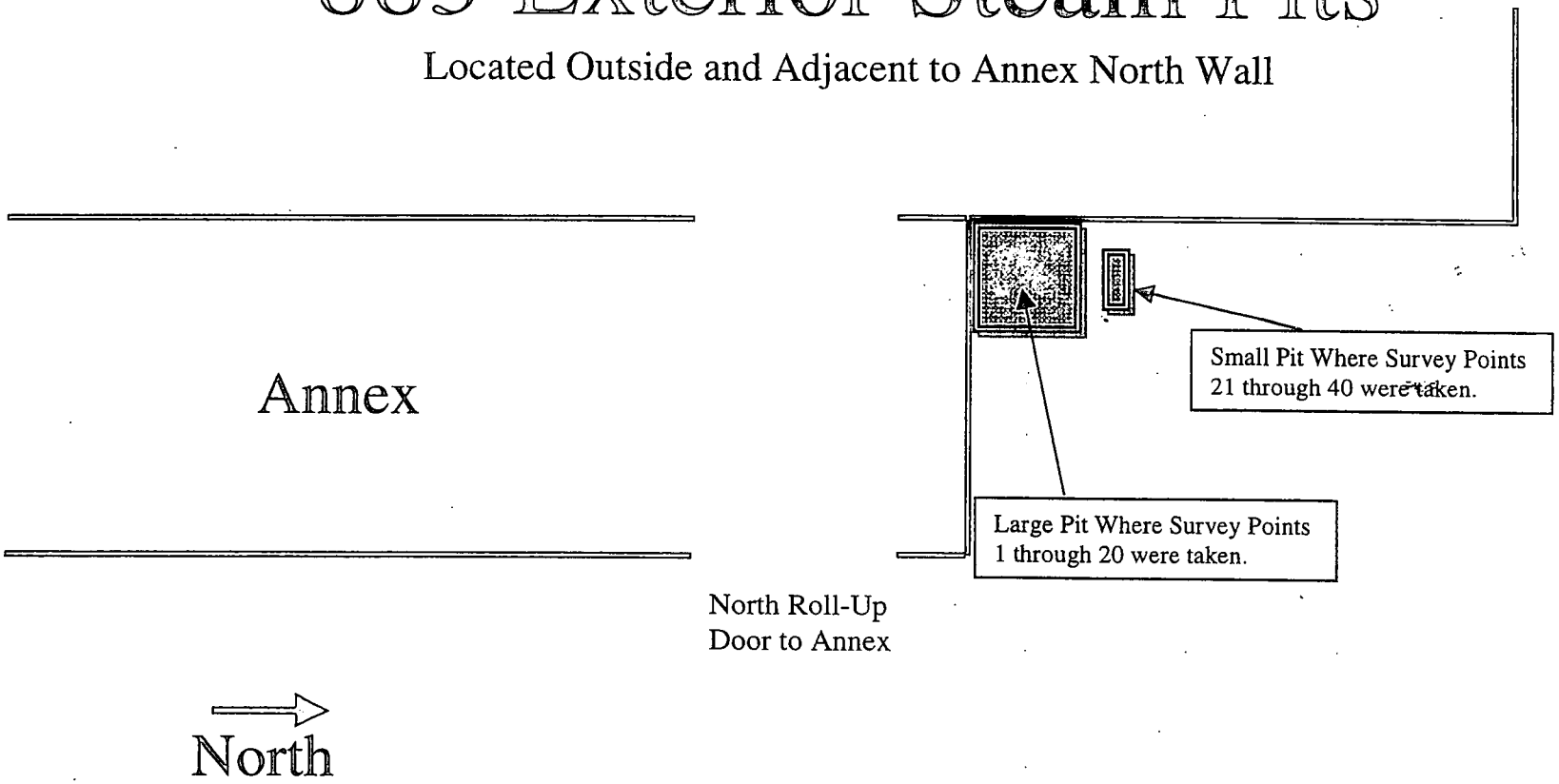
SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1-5	Walls of Larger Pit, South	<18	<53	<53	<190	1200	<554
6-10	Walls of Larger Pit, East	<18	<53	<53	<190	300	<554
11-14	Walls of Larger Pit, North	<18	<53	<53	<190	300	<554
15-20	Walls of Larger Pit, West	<18	<53	<53	<190	2400	<554
21-25	Walls of Smaller Pit, South	<18	<53	<53	<190	300	<554
26-30	Walls of Smaller Pit, East	<18	<53	<53	<190	100	<554
31-35	Walls of Smaller Pit, North	<18	<53	<53	<190	600	<554
36-40	Walls of Smaller Pit, West	<18	<53	<53	<190	300	<554
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	[redacted]					

Date Reviewed: 9/30/04 RS Su[redacted]

Map for Survey 883-04-S683
883 Exterior Steam Pits

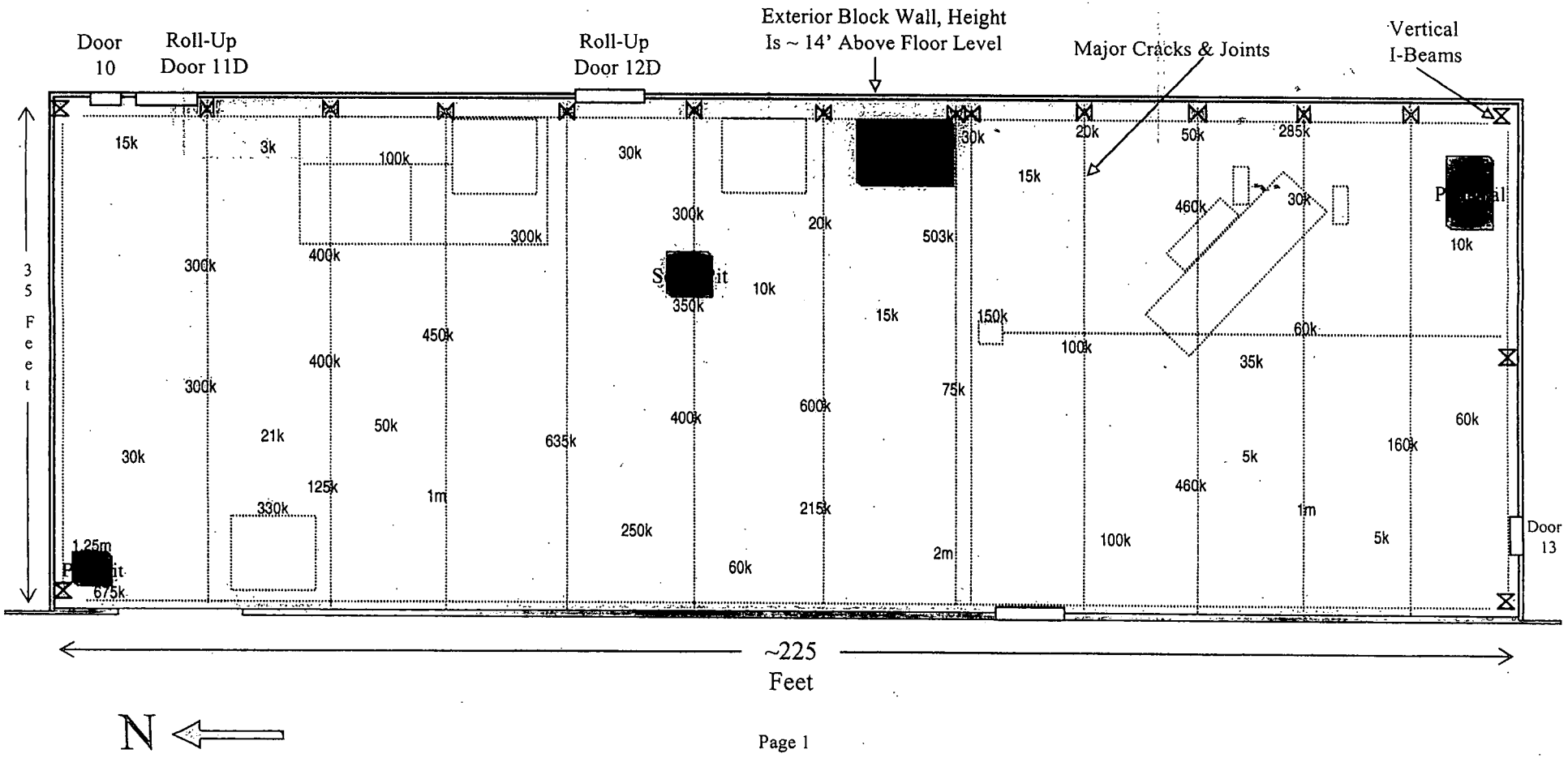
Located Outside and Adjacent to Annex North Wall



250

Bldg. 883 East Annex Floor Cracks & Slab Areas Fixed Contamination

MAXIMUM FIXED beta readings seen are shown in their approximate location in units of dpm/100 cm^2. Multiply readings with "k" by 1000, and readings with "m" by 1,000,000 to get dpm/100 cm^2. REMOVABLE beta on slab is below the release limit of 1000 dpm/100 cm^2.



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	1369
Cal Due	9/25/04	Cal Due	N/A	Cal Due	9/15/04
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	7.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	69 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	1369
Cal Due	9/25/04	Cal Due	N/A	Cal Due	9/15/04
Bkg	94.6 cpmβ	Bkg	N/A cpmβ	Bkg	744.0 cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	589 dpmβ

Survey Tracking # 883-04-455

Survey Type: Contamination

Building: 883

Location: ANNEX N West Pit

Purpose: Job coverage (Pre-Fixative)

RWP #: N/A

Date: 8/25/04 Time: 1100

[redacted]

RCT: NA / NA / NA

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern is Uranium . Default efficiency for Beta used for Depleted Uranium.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Floor	90	360	75	320	1.25M	600
2	Floor	75	240	N/A	576	195,000	N/A
3	Floor	100	480	N/A	400	675,000	N/A
4	E Wall	39	420	N/A	420	1M	N/A
5	N Wall	61	480	N/A	240	625,000	N/A
6	W Wall	36	240	N/A	490	195,000	N/A
7	S Wall	24	300	N/A	450	200,00	N/A
8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
9	N/A	N/A	N/A	N/A	N/A	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 8/25/04 **RS Supervision:** [redacted]

[2] CRACK DATA

251

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	N/A	Serial #	N/A	Serial #	1376
Cal Due	N/A	Cal Due	N/A	Cal Due	9/18/04
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	34.10 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	64 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	N/A	Serial #	N/A	Serial #	1376
Cal Due	N/A	Cal Due	N/A	Cal Due	9/18/04
Bkg	68.9 cpmβ	Bkg	N/A cpmβ	Bkg	773.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	165 dpmβ	MDA	200 dpmβ	MDA	600 dpmβ

Survey Tracking # 883-04-5445

Survey Type: Contamination

Building: 883

Location: EAST ANNEX - North - Floor

Purpose: Job coverage (Pre-Fix)

RWP #: 04-880-0002

[redacted]

RCT: NA / NA / NA

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern is Uranium . Default efficiency for Beta used for Depleted Uranium.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Southeast floor scabbed area enclosed	N/A	<64	N/A	N/A	1259	N/A
2	Southwest floor scabbed area enclosed	N/A	<64	N/A	N/A	650	N/A
3	Mid east floor scabbed area enclosed	N/A	80	N/A	N/A	1385	N/A
4	Mid west floor scabbed area enclosed	N/A	<64	N/A	N/A	685	N/A
5	Mid east floor scabbed area enclosed	N/A	<64	N/A	N/A	885	N/A
6	Mid west floor scabbed area enclosed	N/A	<64	N/A	N/A	1185	N/A
7	Northeast floor scabbed area enclosed	N/A	<64	N/A	N/A	760	N/A
8	Northwest floor scabbed area enclosed	N/A	72	N/A	N/A	635	N/A
9	Sotheast floor scabbed open area	N/A	96	N/A	N/A	3635	N/A
10	Sothwest floor scabbed open area	N/A	234	N/A	N/A	12885	N/A
11	Southeast floor non-scabbed open area	N/A	204	N/A	N/A	22139	N/A
12	Southwest floor non-scabbed open area	N/A	144	N/A	N/A	26635	N/A
13	row 2 southeast floor non-scabbed open area	N/A	72	N/A	N/A	16135	N/A
14	row 2 southwest floor non-scabbed open area	N/A	96	N/A	N/A	28135	N/A
15	middle of floor eastside (n/s open)	N/A	174	N/A	N/A	13135	N/A
16	middle of floor westside (n/s open)	N/A	162	N/A	N/A	21635	N/A
17	northeast floor (n/s open)	N/A	504	N/A	N/A	25885	N/A
18	northwest floor (n/s open)	N/A	102	N/A	N/A	5385	N/A
19	loading dock eastside	N/A	264	N/A	N/A	14635	N/A
20	loading dock westsid[redacted]						

Date Reviewed: 8/25/04 RS Supervi[redacted]

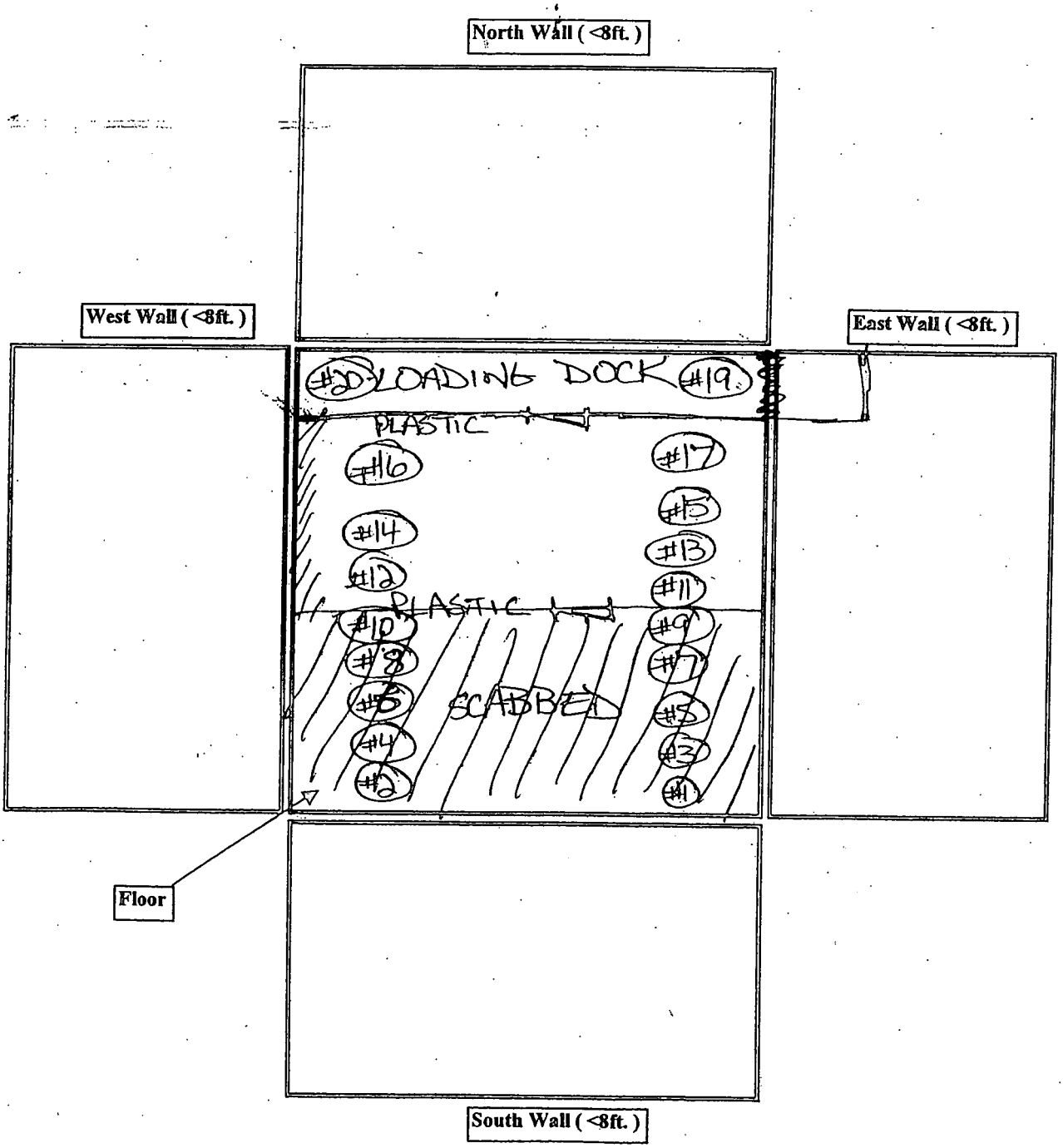
3-PRO-164-RSP-07.01 (EFFECTIVE 7/12/01)

252 (2) SLAB DATA

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

ANNEX



Survey Tracking #
883-04-S445

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA					
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1237
Cal Due	2/16/05	Cal Due	N/A	Cal Due	12/21/04
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	4.0 cpmα
Efficiency	34.60 %	Efficiency	33.00 %	Efficiency	21.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	57 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1237
Cal Due	2/16/05	Cal Due	N/A	Cal Due	12/21/04
Bkg	93.9 cpmβ	Bkg	N/A cpmβ	Bkg	644.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	191 dpmβ	MDA	200 dpmβ	MDA	549 dpmβ

Survey Tracking # 883-04-S569
Survey Type: Contamination
Building: 883
Location: SOP East Annex - North
Purpose: Job coverage (Pre-Fix)
RWP #: 04-880-0001
Date: 9/16/04 Time: 1600

[redacted]

RCT: N/A / N/A / N/A
Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. North Annex Decon. When top wall blocks are removed from behind ceiling beams (at wall) RCT must survey block and back of beam before further demo.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Behind Beam at Ceiling (see map)	N/A	N/A	100	N/A	N/A	10000
2	Behind Beam at Ceiling after decon (see map)	N/A	N/A	<57	N/A	N/A	1500
3	Behind Beam at Ceiling (see map)	N/A	N/A	150	N/A	N/A	15000
4	Behind Beam at Ceiling after decon (see map)	N/A	N/A	<57	N/A	N/A	2000
5	Behind Beam at Ceiling (see map)	N/A	N/A	300	N/A	N/A	15000
6	Behind Beam at Ceiling after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
7	Behind Beam at Ceiling (see map)	N/A	N/A	200	N/A	N/A	10000
8	Behind Beam at Ceiling after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
9	Behind Beam at Ceiling (see map)	N/A	N/A	100	N/A	N/A	10000
10	Behind Beam at Ceiling after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
11	Ceiling Beam Ledge (see map)	N/A	N/A	200	N/A	N/A	15000
12	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
13	Ceiling Beam Ledge (see map)	N/A	N/A	150	N/A	N/A	10000
14	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
15	Ceiling Beam Ledge (see map)	N/A	N/A	100	N/A	N/A	8000
16	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
17	Ceiling Beam Ledge (see map)	N/A	N/A	100	N/A	N/A	5000
18	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
19	Ceiling Beam Ledge (see map)	N/A	N/A	250	N/A	N/A	10000
20	Ceiling Beam Ledge after d	[redacted]					

Date Reviewed: 9/16/04 **RS Supe** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

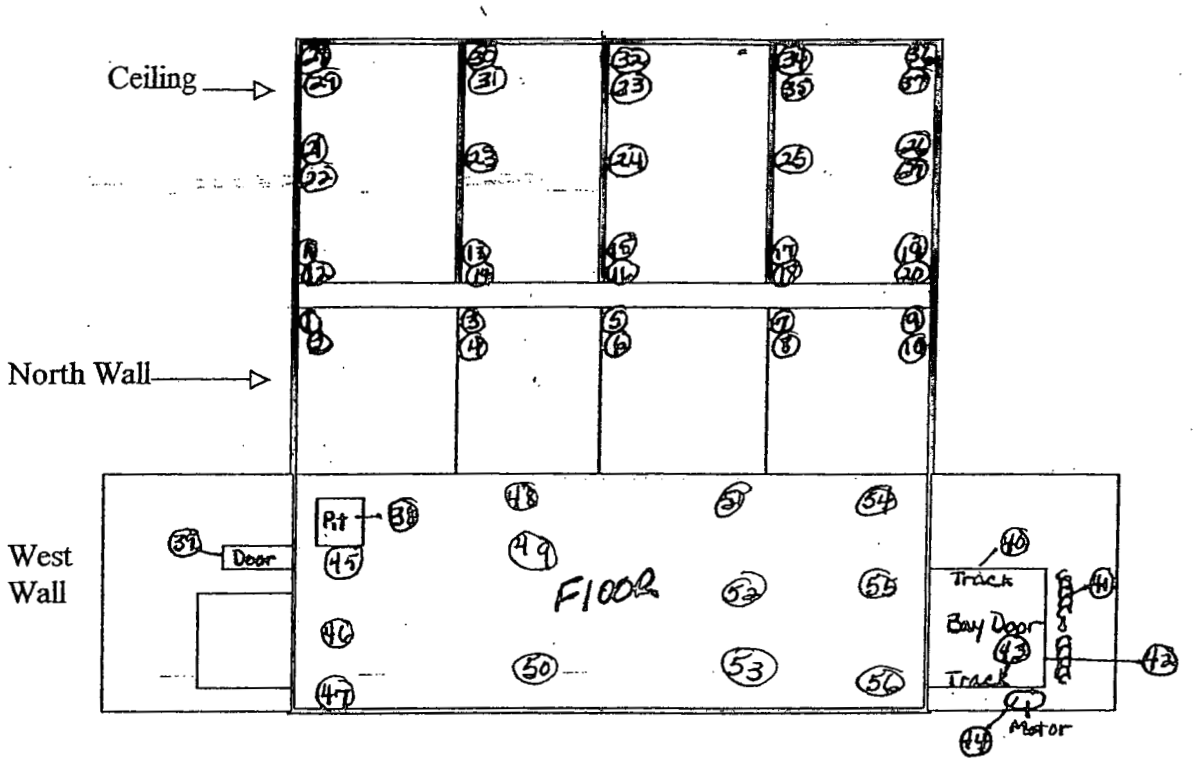
883-04-3569

COPY

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
21	Ceiling Beam Ledge (see map)	N/A	N/A	100	N/A	N/A	8000
22	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
23	Ceiling Beam Ledge (see map)	N/A	N/A	<57	N/A	N/A	<549
24	Ceiling Beam Ledge (see map)	N/A	N/A	<57	N/A	N/A	<549
25	Ceiling Beam Ledge (see map)	N/A	N/A	<57	N/A	N/A	<549
26	Behind Ceiling Beam Ledge (see map)	N/A	N/A	300	N/A	N/A	15000
27	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
28	Ceiling Beam Ledge (see map)	N/A	N/A	250	N/A	N/A	15000
29	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
30	Ceiling Beam Ledge (see map)	N/A	N/A	200	N/A	N/A	10000
31	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
32	Ceiling Beam Ledge (see map)	N/A	N/A	100	N/A	N/A	7500
33	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
34	Ceiling Beam Ledge (see map)	N/A	N/A	200	N/A	N/A	10000
35	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
36	Ceiling Beam Ledge (see map)	N/A	N/A	150	N/A	N/A	9500
37	Ceiling Beam Ledge after decon (see map)	N/A	N/A	<57	N/A	N/A	<549
38	Pit (see map)	N/A	3500	<57	N/A	650000	<549
39	Door (see map)	N/A	N/A	<57	N/A	N/A	<549
40	Bay Door Track (see map)	N/A	200	<57	N/A	15000	<549
41	Spring above Bay Door (see map)	N/A	100	<57	N/A	10000	<549
42	Top of Bay Door (see map)	N/A	100	<57	N/A	5000	<549
43	Bay Door Track (see map)	N/A	100	<57	N/A	15000	<549
44	Bay Door Motor (see map)	N/A	N/A	<57	N/A	N/A	<549
45	Floor before scabbling (see map)	N/A	500	N/A	N/A	100000	N/A
46	Floor before scabbling (see map)	N/A	200	N/A	N/A	25000	N/A
47	Floor before scabbling (see map)	N/A	200	N/A	N/A	15000	N/A
48	Floor before scabbling (see map)	N/A	500	N/A	N/A	125000	N/A
49	Floor before scabbling (see map)	N/A	100	N/A	N/A	17000	N/A
50	Floor before scabbling (see map)	N/A	100	N/A	N/A	15000	N/A
51	Floor before scabbling (see map)	N/A	100	N/A	N/A	10000	N/A
52	Floor before scabbling (see map)	N/A	300	N/A	N/A	17500	N/A
53	Floor before scabbling (see map)	N/A	250	N/A	N/A	15000	N/A
54	Floor before scabbling (see map)	N/A	100	N/A	N/A	5000	N/A
55	Floor before scabbling (see map)	N/A	300	N/A	N/A	15000	N/A
56	Floor before scabbling (see map)	N/A	100	N/A	N/A	10000	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

North Annex Loading Bay Area



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1237
Cal Due	2/16/05	Cal Due	N/A	Cal Due	12/21/04
Bkg	91.0 cpmα	Bkg	N/A cpmα	Bkg	3.0 cpmα
Efficiency	34.60 %	Efficiency	33.00 %	Efficiency	21.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	51 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1237
Cal Due	2/16/05	Cal Due	N/A	Cal Due	12/21/0[redacted]
Bkg	91.0 cpmβ	Bkg	N/A cpmβ	Bkg	682.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	188 dpmβ	MDA	200 dpmβ	MDA	564 dpmβ

Survey Tracking # 883-04-S559

Survey Type: Contamination

Building: 883

Location: SOP East Annex - North

Purpose: Job coverage, Post Decon (Pre-Fix)

RWP #: 04-880-0001

Date: 9/18/04 Time: 1600 [redacted]

RCT:	N/A	N/A	N/A
	Print name	Signature	Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. Annex Floor and Baseboard decon. Along floor at wall, corners, and baseboard type areas at No. and East walls were deconned and readings below are "Fixed" (after deconning)

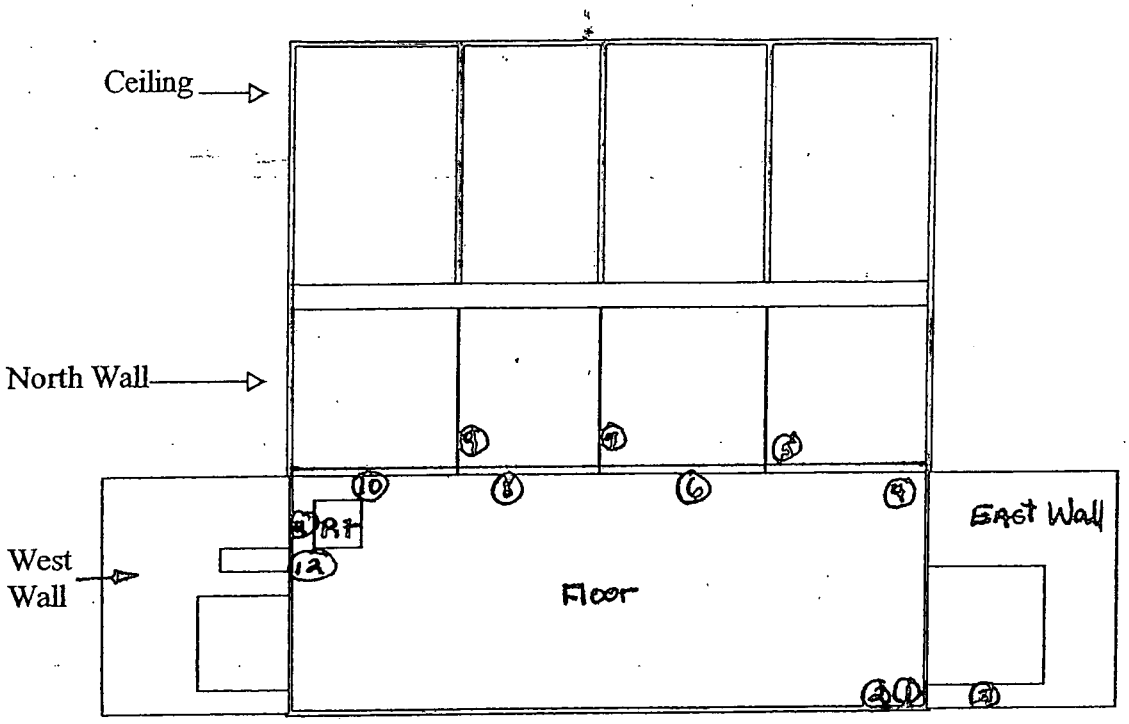
SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Corner at floor on Beam Pedestal	<18	300	N/A	<188	30000	N/A
2	Corner on Floor at wall	<18	300	N/A	<188	25000	N/A
3	Spot on wall	<18	250	N/A	<188	10000	N/A
4	Corner at floor on Beam Pedestal	<18	2500	N/A	<188	460000	N/A
5	Top of Baseboard	<18	450	N/A	<188	75000	N/A
6	Floor at Wall	<18	1000	N/A	<188	200000	N/A
7	Top of Baseboard	<18	500	N/A	<188	50000	N/A
8	Floor at Wall	<18	5000	N/A	<188	900000	N/A
9	Top of Baseboard	<18	750	N/A	<188	150000	N/A
10	By the Pit on the Floor at Wall	<18	5000	N/A	<188	900000	N/A
11	West side of pit	<18	1200	N/A	<188	240000	N/A
12	At bottom of door at Floor	<18	350	N/A	<188	75000	N/A
13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 9/18/04 **RS Supervisio**[redacted]

883-04-5559

North Annex Loading Bay Area



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1369
Cal Due	3/16/05	Cal Due	N/A	Cal Due	3/16/05
Bkg	0.3 cpmα	Bkg	N/A cpmα	Bkg	1.0 cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	21.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	35 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	1369
Cal Due	3/16/05	Cal Due	N/A	Cal Due	3/16/0
Bkg	93.1 cpmβ	Bkg	N/A cpmβ	Bkg	716.0 cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	190 dpmβ	MDA	200 dpmβ	MDA	578 dpmβ

Survey Tracking # 883-04-S688

Survey Type: Contamination

Building: 883

Location: Annex / North Side

Purpose: Final Survey Prior to Demolition (Pre-Fix)

RWP #: 04-880-0001

Date: 10/1/04 Time: 1100

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN.#: N/A

Comments: Nuclide of concern is depleted uranium. Above adjustment in calculations. Survey completed in the annex for the final phase of surveys to allow demolition to commence. All swipes were less than 1000d/m beta removable. Area floor, walls and ceiling surveyed direct and removable with only fixed above the limits.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1-50	All Floor Sections *	**66**	**60-10k**	10k	**190**	**4k-1mil**	20k
51-70	North Wall Section *	<18	2k	300	<190	900k	<578
71-90	Ceiling Survey	<18	300	<35	<190	8500	<578
91-100	decon of All Removable areas	<18	N/A	N/A	<190	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 10/1/04 **RS Supervision:** [redacted]

* SEE NOTE 1

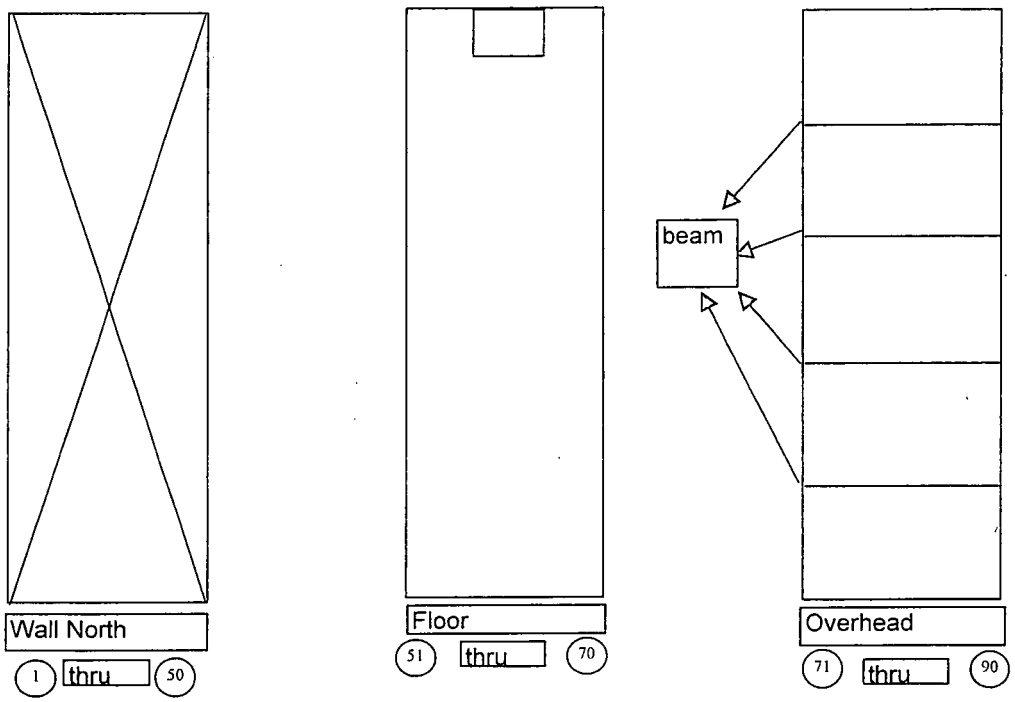
259

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

North Annex

N



The survey performed in the North section of the Annex was a verification prior to demo. All removable was cleaned and the fixed levels remain high. The entire area will be painted with a latex paint. The background from the baseboard is high therefore a distinction between the floor and the wall could not be completed without the proper shielding. The pit was deconned to meet release criteria and the waste line remaining was also prepared and tape for disposal. Spaces behind the overhead beams are tight and could not be smeared as normal. This will be the areas to watch for loose contamination. Area was released for demolition preparation.

NOTE 1 – PER RCT, 1–50 TAKEN ON NORTH WALL

AND 51–70 TAKEN ON ANNEX NORTH FLOOR AREAS

G. Aldrich. 1/27/05
Rad Engineer

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	1383
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/13/05
Bkg	0.3 cpmα	Bkg	N/A cpmα	Bkg	4.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	20.40 %
MDA	18 dpmα	MDA	20 dpmα	MDA	59 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	1383
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/13/05
Bkg	95.4 cpmβ	Bkg	N/A cpmβ	Bkg	749.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	193 dpmβ	MDA	200 dpmβ	MDA	591 dpmβ

Survey Tracking # 883-04-S449

Survey Type: Contamination

Building: 883

Location: Area A Annex East Side Pit

Purpose: Post Job Survey of Pit (Pre-fix)

RWP #: 04-880-0002

Date: 8/18/04 Time: 1400

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as Post-Job Survey of Pit. Beta readings are according to Depleted Uranium.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Pit East Wall	N/A	N/A	N/A	N/A	2500	<591
2	Pit East Wall	N/A	N/A	N/A	N/A	2000	<591
3	Pit East Wall	N/A	N/A	N/A	N/A	2000	<591
4	Pit North Wall	N/A	N/A	N/A	N/A	1500	<591
5	Pit North Wall	N/A	N/A	N/A	N/A	2000	<591
6	Pit North Wall	N/A	N/A	N/A	N/A	2500	<591
7	Pit West Wall	N/A	N/A	N/A	N/A	500	<591
8	Pit West Wall	N/A	N/A	N/A	N/A	1000	<591
9	Pit West Wall	N/A	N/A	N/A	N/A	1500	<591
10	Pit West Wall	N/A	N/A	N/A	N/A	1500	<591
11	Pit West Wall	N/A	N/A	N/A	N/A	2500	<591
12	Pit West Wall	N/A	N/A	N/A	N/A	3500	<591
13	Pit South Wall	N/A	N/A	N/A	N/A	3500	<591
14	Pit South Wall	N/A	N/A	N/A	N/A	3000	<591
15	Pit South Wall	N/A	N/A	N/A	N/A	3000	<591
16	Top of Pedestal So.end	N/A	N/A	N/A	N/A	7000	<591
17	Top of Pedestal Middle	N/A	N/A	N/A	N/A	2500	<591
18	Top of Pedestal No. end	N/A	N/A	N/A	N/A	15500	<591
19	East Wall of Pedestal	N/A	N/A	N/A	N/A	4000	<591
20	North Wall of Pedestal	N/A	N/A	N/A	N/A	4000	<591

Date Reviewed: 8/25/04 RS Superv[redacted]

261

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

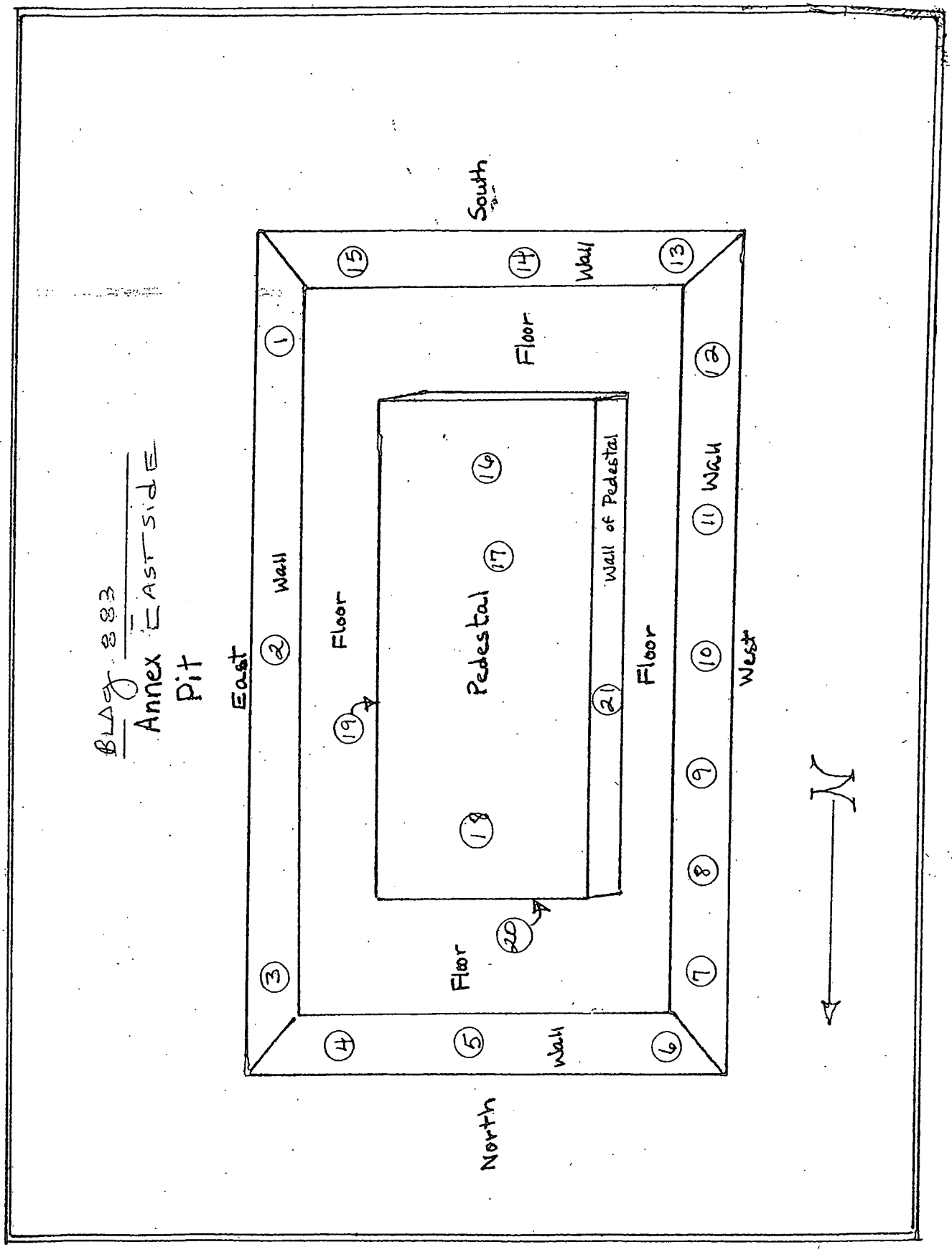
SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Pedestal wall No.	N/A	N/A	N/A	N/A	3500	<591
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Survey Tracking #
883-04-5449

262

COPY



Survey Tracking #
883-04-5449

263

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	1258
Cal Due	9/25/04	Cal Due	N/A	Cal Due	10/6/04
Bkg	0.3 cpmα	Bkg	N/A cpmα	Bkg	3.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	22.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	47 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	1258
Cal Due	9/25/04	Cal Due	N/A	Cal Due	10/6/04
Bkg	95.3 cpmβ	Bkg	N/A cpmβ	Bkg	820.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	192 dpmβ	MDA	200 dpmβ	MDA	618 dpmβ

Survey Tracking #	883-04-S462
Survey Type:	Contamination
Building:	883
Location:	Annex Floor South
Purpose:	post scabbing (Pre-Fix)
RWP #:	N/A
Date:	8/27/04 Time: 0900

[redacted]

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	See Map (general area)	<18	<47	<47	<192	1000	<618
2	See Map	<18	300	<47	<192	10K	<618
3	See Map	<18	55	<47	<192	60K	<618
4	See Map	<18	<47	<47	<192	15K	<618
5	See Map	<18	55	<47	<192	60K	<618
6	See Map	<18	<47	<47	<192	150K	<618
7	See Map	<18	<47	<47	<192	5K	<618
8	See Map (general area)	<18	<47	<47	<192	900	<618
9	See Map	<18	50	<47	<192	30K	<618
10	See Map	<18	50	<47	<192	30K	<618
11	See Map	<18	<47	<47	<192	35K	<618
12	See Map	<18	<47	<47	<192	5K	<618
13	See Map	<18	50	<47	<192	1350	<618
14	See Map	<18	<47	<47	<192	20K	<618
15	See Map	<18	55	<47	<192	100K	<618
16	See Map	<18	60	<47	<192	15K	<618
17	See Map	<18	<47	<47	<192	30K	<618
18	See Map	<18	<47	<47	<192	25K	<618
19	See Map	<18	<47	<47	<192	2000K	<618
20	See Map (general area)	<18	60	<47	<192	15K	<618

Date Reviewed: 8/27/04 **RS Supervision:** [redacted]

SLAB DATA CRACK DATA →

264

883-04-5462

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	See Map	<18	<47	<47	<192	1000	<618
22	See Map	<18	300	<47	<192	10K	<618
23	See Map	<18	<47	<47	<192	60K	<618
24	See Map	<18	350	<47	<192	30K	<618
25	See Map	<18	250	<47	<192	3K	<618
26	See Map	<18	100	<47	<192	250K	<618
27	See Map	<18	<47	<47	<192	100K	<618
28	See Map	<18	<47	<47	<192	50K	<618
29	See Map	<18	55	<47	<192	400K	<618
30	See Map	<18	<47	<47	<192	3K	<618
31	See Map	<18	60	<47	<192	300K	<618
32	N/A	N/A	N/A	N/A	N/A	N/A	N/A
33	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

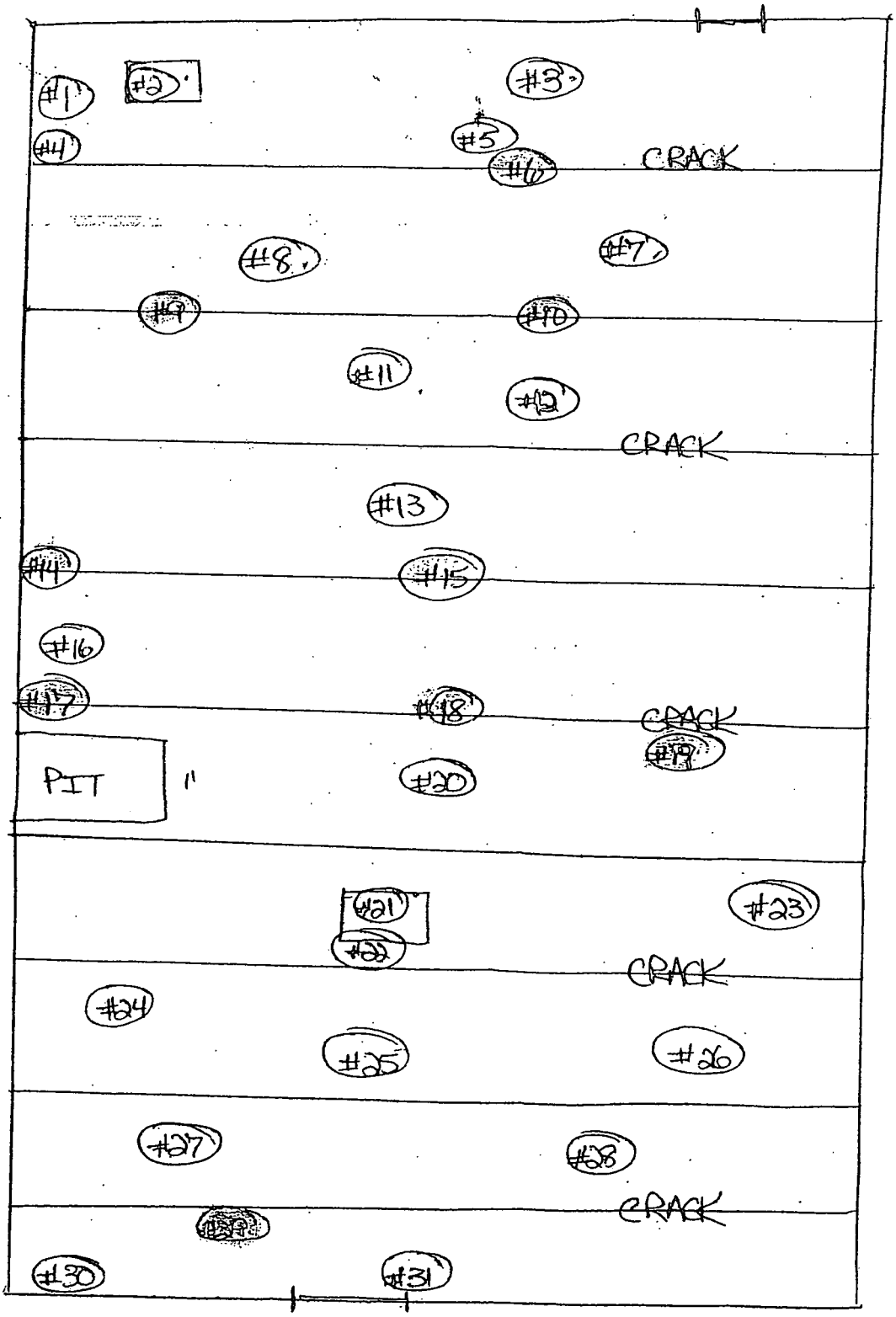
Survey Tracking #
883-04-5462

265

ANNEX

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



Survey Tracking #
883-04-0462

266

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	21.60 %
MDA	18 dpmα	MDA	20 dpmα	MDA	65 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	94.1 cpmβ	Bkg	N/A cpmβ	Bkg	697.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	191 dpmβ	MDA	200 dpmβ	MDA	570 dpmβ

Survey Tracking # 883-04-S500

Survey Type: Contamination

Building: 883

Location: SOP Annex South Dwld

Purpose: Job coverage (Pre-Fix)

RWP #: 04-880-0001

Date: 9/7/04 Time: 1600

[redacted]

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. Annex Ceiling and Wall Decon.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Under Wall Beam (see map)	N/A	N/A	500	N/A	N/A	10000
2	Under Wall Beam (see map)	N/A	N/A	300	N/A	N/A	8000
3	Under Wall Beam (see map)	N/A	N/A	600	N/A	N/A	15000
4	Under Wall Beam (see map)	N/A	N/A	1000	N/A	N/A	25000
5	Under Wall Beam (see map)	N/A	N/A	700	N/A	N/A	20000
6	Under Wall Beam (see map)	N/A	N/A	650	N/A	N/A	15000
7	Under Wall Beam (see map)	N/A	N/A	600	N/A	N/A	15000
8	Under Wall Beam (see map)	N/A	N/A	400	N/A	N/A	10000
9	Under Wall Beam (see map)	N/A	N/A	750	N/A	N/A	18000
10	Under Wall Beam (see map)	N/A	N/A	1100	N/A	N/A	25000
11	Under Wall Beam (see map)	N/A	N/A	1000	N/A	N/A	25000
12	Under Wall Beam (see map)	N/A	N/A	1200	N/A	N/A	30000
13	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
14	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
15	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
16	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
17	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
18	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
19	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
20	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570

Date Reviewed: 9/7/04 **RS Sup** [redacted]

883-645-5005

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

	LOCATION	ALPHA			BETA		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
22	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
23	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
24	Under Wall Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<570
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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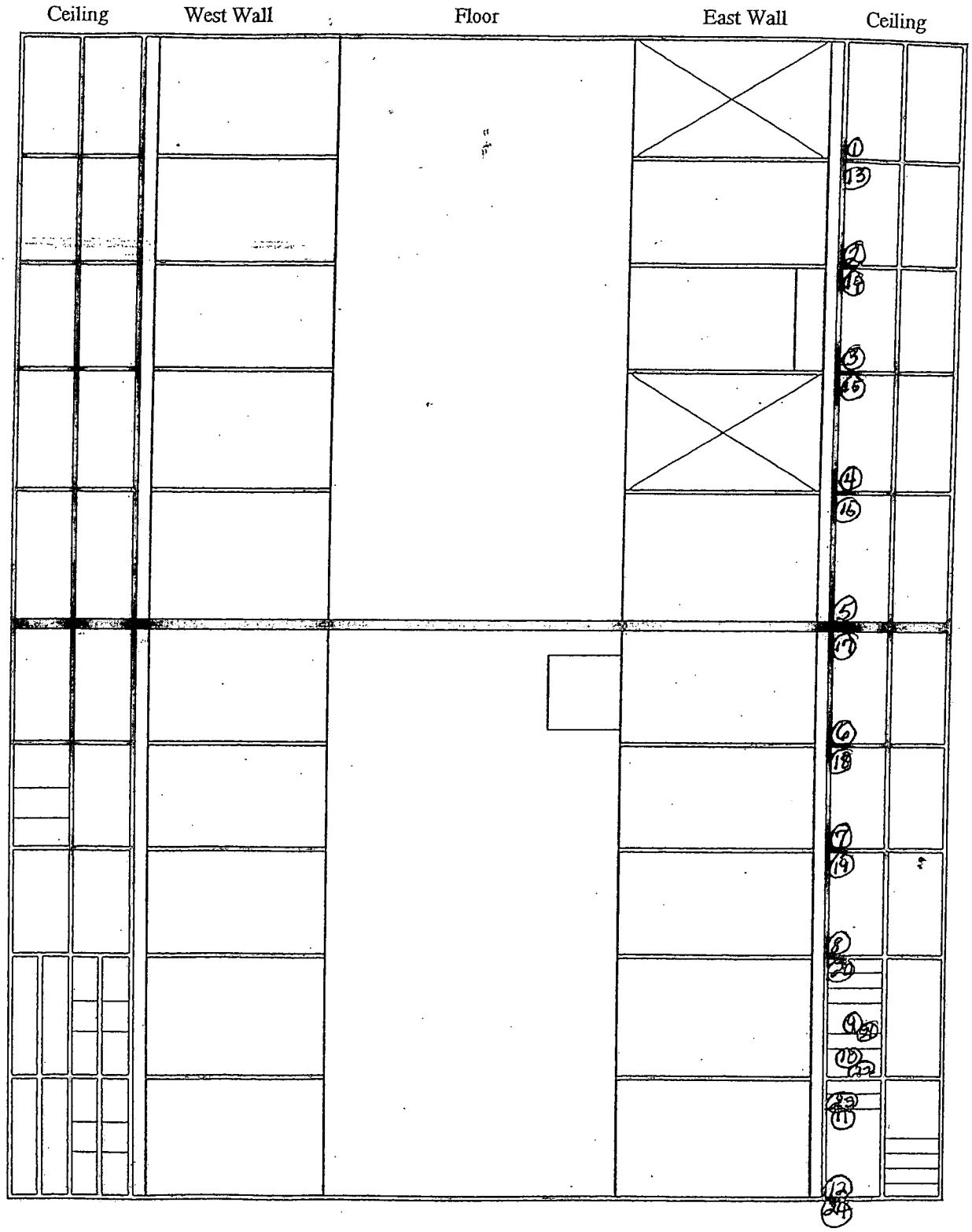
883-045-5040

NORTH



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	21.60 %
MDA	18 dpmα	MDA	20 dpmα	MDA	61 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	98.1 cpmβ	Bkg	N/A cpmβ	Bkg	638.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	195 dpmβ	MDA	200 dpmβ	MDA	546 dpmβ

Survey Tracking # 883-04-S540

Survey Type: Contamination

Building: 883

Location: SOP Annex South - Quad

Purpose: Job coverage (Pre-Fix)

RWP #: 04-880-0001

Date: 9/8/04 Time: 1600

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. Annex Ceiling and Wall Decon.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Ceiling Beam (see map)	N/A	N/A	250	N/A	N/A	7500
2	Ceiling Beam (see map)	N/A	N/A	450	N/A	N/A	10000
3	Ceiling Beam (see map)	N/A	N/A	850	N/A	N/A	20000
4	Ceiling Beam (see map)	N/A	N/A	1350	N/A	N/A	35000
5	Ceiling Beam (see map)	N/A	N/A	650	N/A	N/A	15000
6	Ceiling Beam (see map)	N/A	N/A	350	N/A	N/A	8500
7	Ceiling Beam (see map)	N/A	N/A	900	N/A	N/A	22000
8	Ceiling Beam (see map)	N/A	N/A	650	N/A	N/A	11000
9	Ceiling Beam (see map)	N/A	N/A	750	N/A	N/A	18000
10	Ceiling Beam (see map)	N/A	N/A	800	N/A	N/A	20000
11	Ceiling Beam (see map)	N/A	N/A	1100	N/A	N/A	25000
12	Ceiling Beam after decon (see map)	N/A	N/A	<61	N/A	N/A	<546
13	Ceiling Beam after decon (see map)	N/A	N/A	<61	N/A	N/A	<546
14	Ceiling Beam after decon (see map)	N/A	N/A	<61	N/A	N/A	<546
15	Ceiling Beam after decon (see map)	N/A	N/A	<61	N/A	N/A	<546
16	Ceiling Beam after decon (see map)	N/A	N/A	<61	N/A	N/A	<546
17	Ceiling Beam after decon (see map)	N/A	N/A	<61	N/A	N/A	<546
18	Ceiling Beam after decon (see map)	N/A	N/A	<61	N/A	N/A	<546
19	Ceiling Beam after decon (see map)	N/A	N/A	<61	N/A	N/A	<546
20	Ceiling Beam after decon (s[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

Date Reviewed: 9/8/04 RS Supervis[redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
21	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<546
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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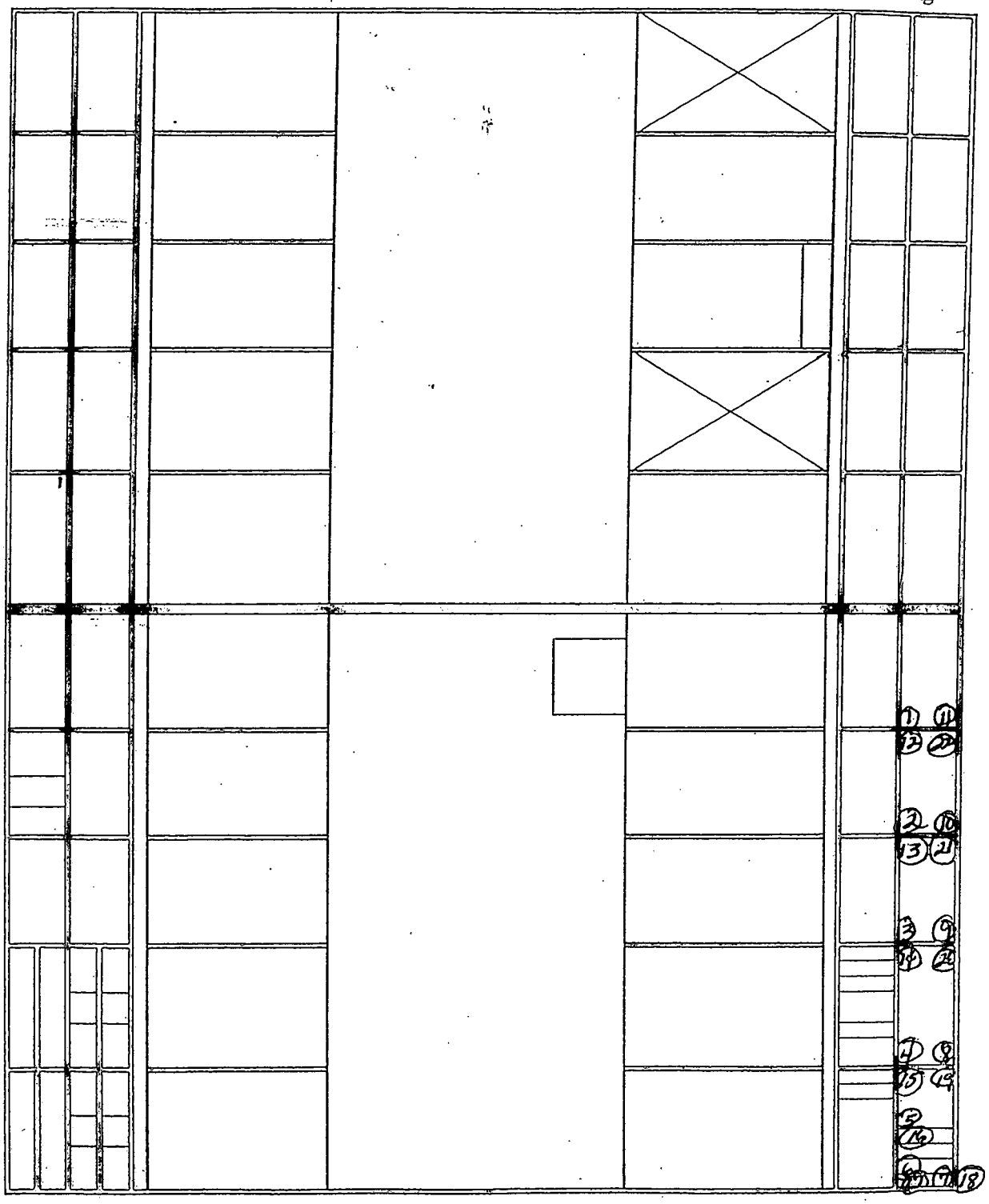
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-045-540

NORTH

Ceiling West Wall Floor East Wall Ceiling



COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	7.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	21.60 %
MDA	18 dpmα	MDA	20 dpmα	MDA	70 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/0[redacted]
Bkg	94.9 cpmβ	Bkg	N/A cpmβ	Bkg	712.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	192 dpmβ	MDA	200 dpmβ	MDA	576 dpmβ

Survey Tracking # 883-04-S541

Survey Type: Contamination

Building: 883

Location: SOP Annex South - Dubd

Purpose: Job coverage (Pre-Fix)

RWP #: 04-880-0001

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. Annex Ceiling and Wall Decon.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Ceiling Beam (see map)	N/A	N/A	700	N/A	N/A	15000
2	Ceiling Beam (see map)	N/A	N/A	1000	N/A	N/A	25000
3	Ceiling Beam (see map)	N/A	N/A	1100	N/A	N/A	25000
4	Ceiling Beam (see map)	N/A	N/A	1500	N/A	N/A	55000
5	Ceiling Beam (see map)	N/A	N/A	3000	N/A	N/A	98000
6	Ceiling Beam (see map)	N/A	N/A	3000	N/A	N/A	92000
7	Ceiling Beam (see map)	N/A	N/A	3000	N/A	N/A	98000
8	Ceiling Beam (see map)	N/A	N/A	2800	N/A	N/A	80000
9	Ceiling Beam (see map)	N/A	N/A	1500	N/A	N/A	45000
10	Ceiling Beam (see map)	N/A	N/A	1200	N/A	N/A	25000
11	Ceiling Beam (see map)	N/A	N/A	1100	N/A	N/A	25000
12	Ceiling Beam (see map)	N/A	N/A	800	N/A	N/A	13000
13	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<576
14	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<576
15	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<576
16	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<576
17	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<576
18	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<576
19	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<576
20	Ceiling Beam after decon (see map	[redacted]					

Date Reviewed: 9/9/04 RS Supervision: [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

	LOCATION	ALPHA			BETA		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<576
22	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<576
23	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<576
24	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<576
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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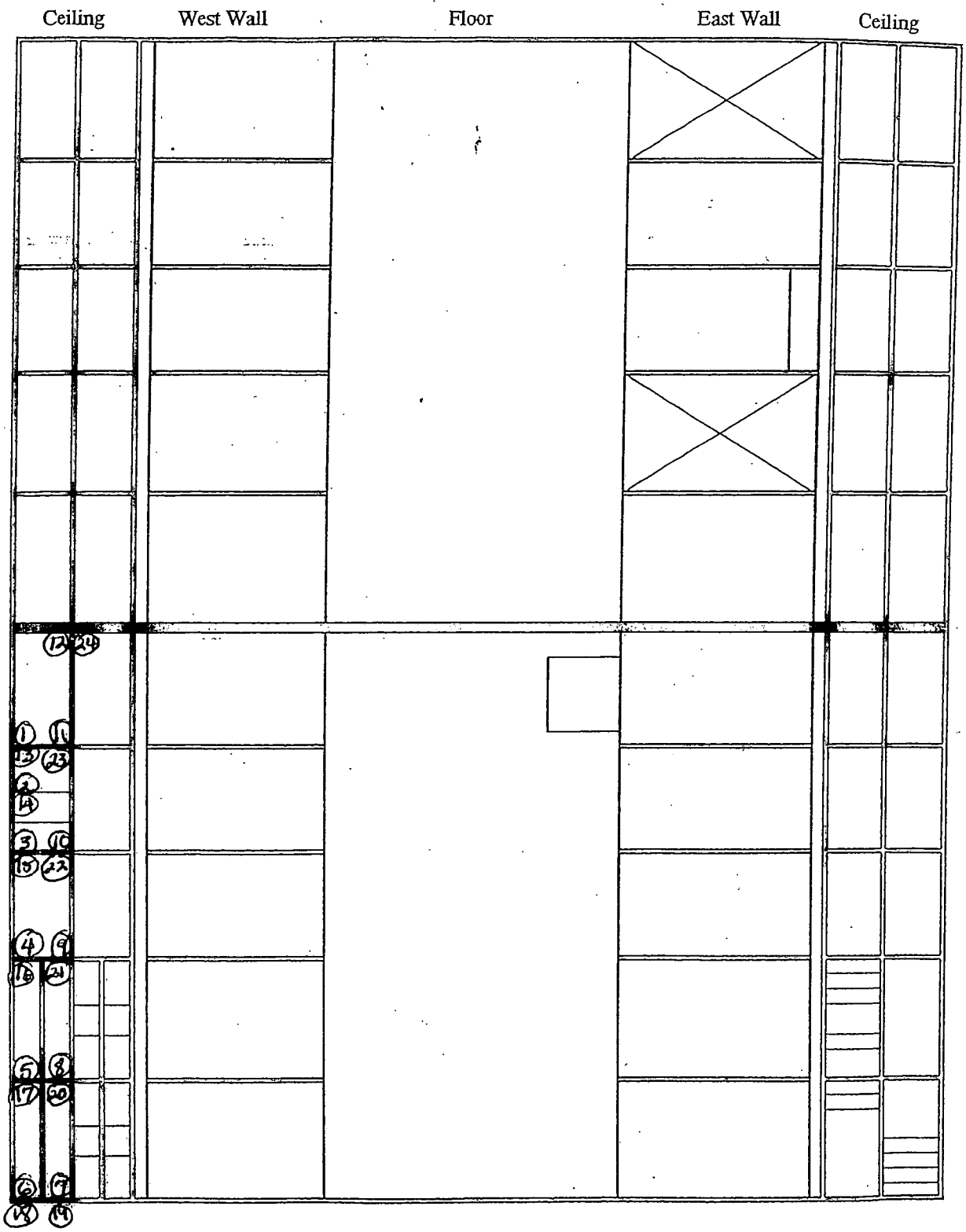
NORTH



COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	21.60 %
MDA	18 dpmα	MDA	20 dpmα	MDA	65 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	93.0 cpmβ	Bkg	N/A cpmβ	Bkg	712.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	190 dpmβ	MDA	200 dpmβ	MDA	576 dpmβ

Survey Tracking # 883-04-S542

Survey Type: Contamination

Building: 883

Location: SOP Annex South - Ouhd

Purpose: Job coverage (Pre-Fix)

RWP #: 04-880-0001

Date: 9/10/04 Time: 1600

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. Annex Ceiling and Wall Decon.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Ceiling Beam (see map)	N/A	N/A	1100	N/A	N/A	25000
2	Ceiling Beam (see map)	N/A	N/A	1300	N/A	N/A	28000
3	Ceiling Beam (see map)	N/A	N/A	1500	N/A	N/A	41000
4	Ceiling Beam (see map)	N/A	N/A	1650	N/A	N/A	45000
5	Ceiling Beam (see map)	N/A	N/A	5000	N/A	N/A	100000
6	Ceiling Beam (see map)	N/A	N/A	4500	N/A	N/A	99000
7	Ceiling Beam (see map)	N/A	N/A	5500	N/A	N/A	105000
8	Ceiling Beam (see map)	N/A	N/A	5000	N/A	N/A	99000
9	Ceiling Beam (see map)	N/A	N/A	6000	N/A	N/A	110000
10	Ceiling Beam (see map)	N/A	N/A	4500	N/A	N/A	100000
11	Ceiling Beam inside Corner (see map)	N/A	N/A	5900	N/A	N/A	110000
12	Ceiling Beam (see map)	N/A	N/A	4950	N/A	N/A	98000
13	Ceiling Beam (see map)	N/A	N/A	2000	N/A	N/A	50000
14	Ceiling Beam (see map)	N/A	N/A	1850	N/A	N/A	45000
15	Ceiling Beam (see map)	N/A	N/A	1700	N/A	N/A	35000
16	Ceiling Beam (see map)	N/A	N/A	1300	N/A	N/A	25000
17	Ceiling Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<576
18	Ceiling Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<576
19	Ceiling Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<576
20	Ceiling Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<576

Date Reviewed: 9/10/04 **RS Supervision:** [redacted]

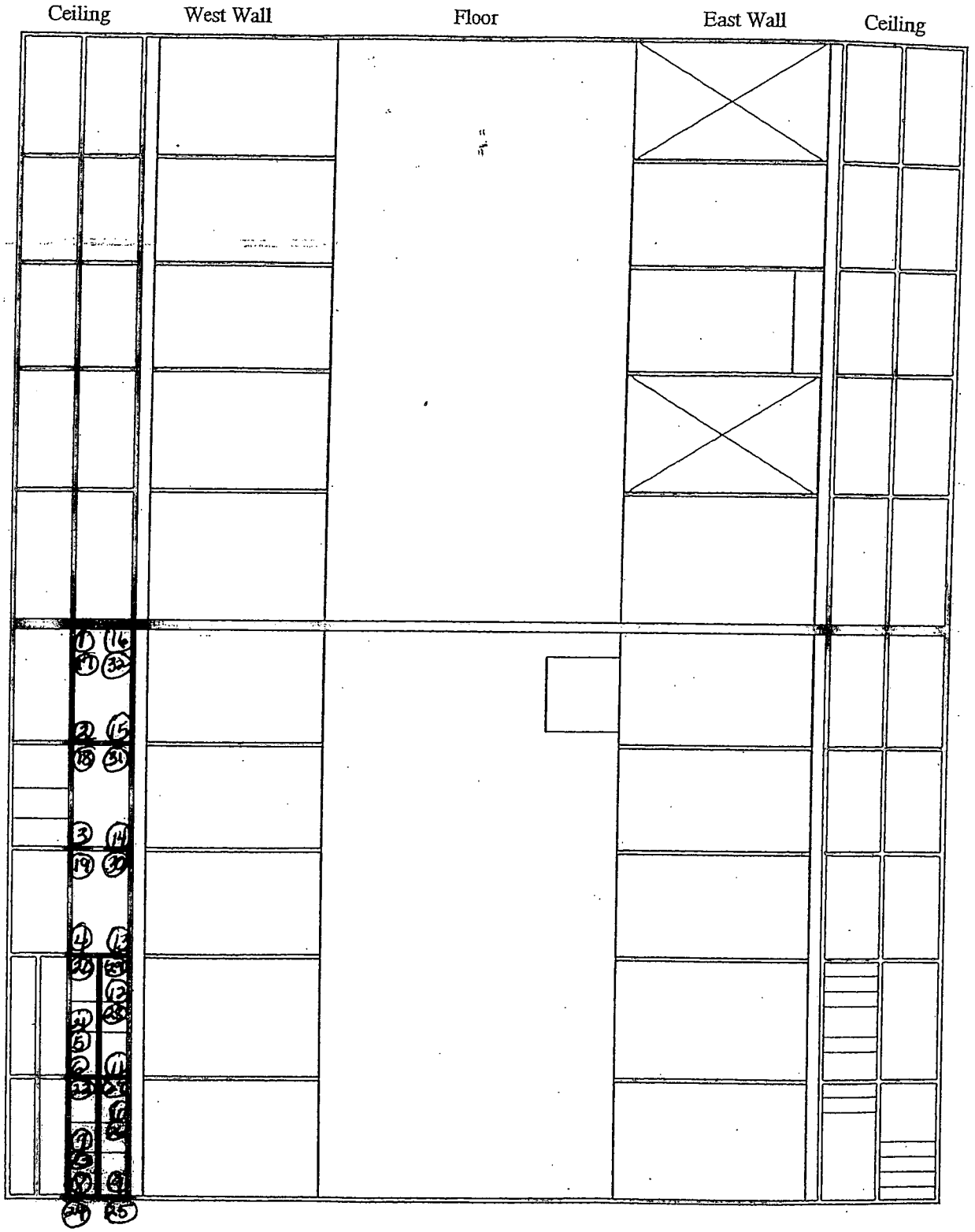
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
22	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
23	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
24	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
25	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
26	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
27	Ceiling Beam inside Corner after Decon (see map)	N/A	800	<65	N/A	25000	<576
28	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
29	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
30	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
31	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
32	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-045-542

NORTH



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	0.3 cpmα	Bkg	N/A cpmα	Bkg	7.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	21.60 %
MDA	18 dpmα	MDA	20 dpmα	MDA	70 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	97.4 cpmβ	Bkg	N/A cpmβ	Bkg	735.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	194 dpmβ	MDA	200 dpmβ	MDA	585 dpmβ

Survey Tracking # 883-04-S 543

Survey Type: Contamination

Building: 883

Location: SOP Annex South- Ouhd

Purpose: Job coverage (Pre-Fix)

RWP #: 04-880-0001

Date: 9/11/04 Time: 1600

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. Annex Ceiling and Wall Decon.

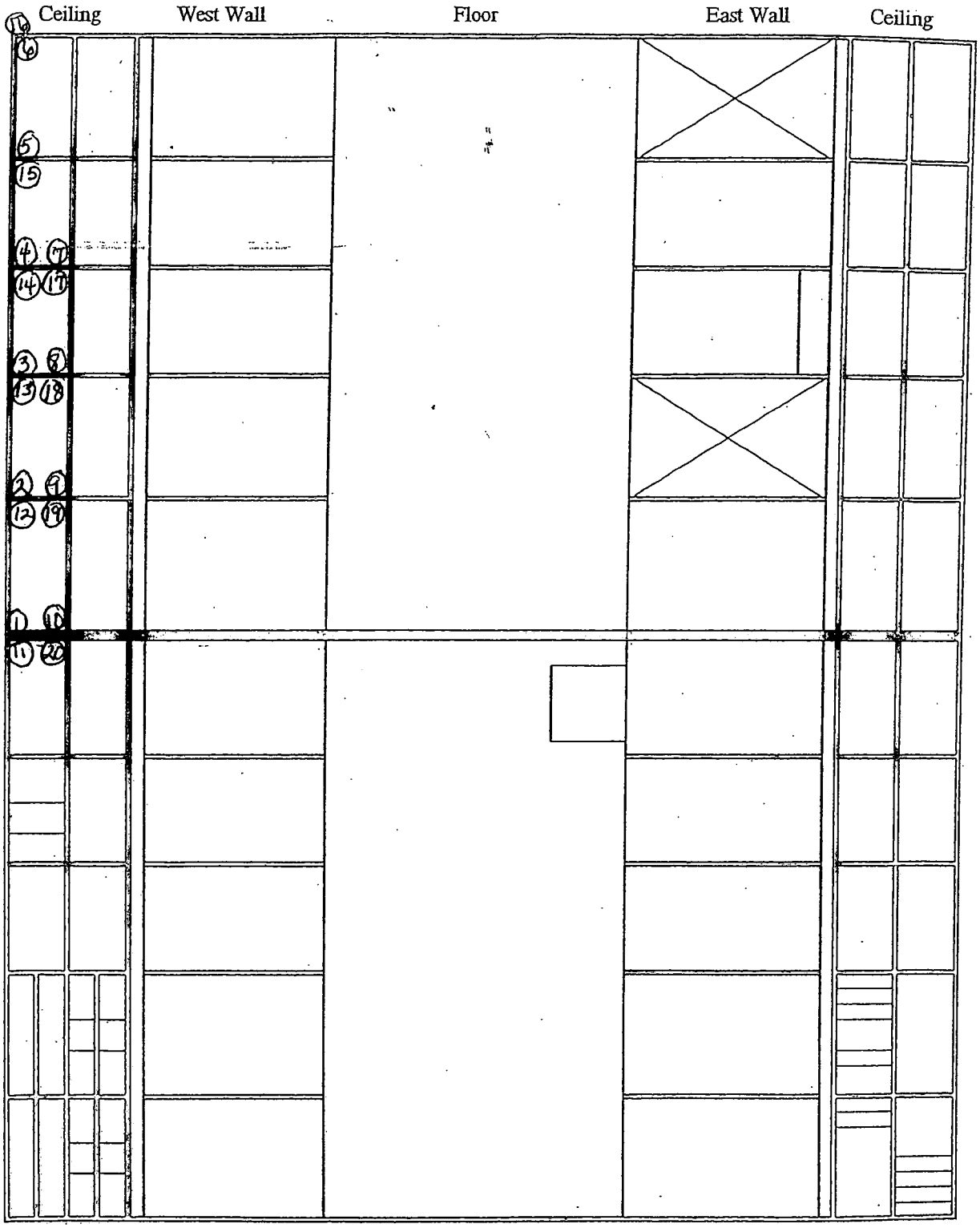
SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Ceiling Beam (see map)	N/A	N/A	900	N/A	N/A	25000
2	Ceiling Beam (see map)	N/A	N/A	650	N/A	N/A	18000
3	Ceiling Beam (see map)	N/A	N/A	550	N/A	N/A	10000
4	Ceiling Beam (see map)	N/A	N/A	600	N/A	N/A	10000
5	Ceiling Beam (see map)	N/A	N/A	350	N/A	N/A	8000
6	Ceiling Beam (see map)	N/A	N/A	250	N/A	N/A	5500
7	Ceiling Beam (see map)	N/A	N/A	350	N/A	N/A	9599
8	Ceiling Beam (see map)	N/A	N/A	650	N/A	N/A	10000
9	Ceiling Beam (see map)	N/A	N/A	700	N/A	N/A	15000
10	Ceiling Beam (see map)	N/A	N/A	800	N/A	N/A	20000
11	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<585
12	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<585
13	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<585
14	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<585
15	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<585
16	Ceiling Beam after Decon (see map)	N/A	N/A	<70	N/A	N/A	<585
17	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<585
18	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<585
19	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<585
20	Ceiling Beam after decon (see map)	N/A	N/A	<70	N/A	N/A	<585

Date Reviewed: 9/11/04 RS Supervision: [redacted]

883-945-543

NORTH



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	0.4 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	21.60 %
MDA	18 dpmα	MDA	20 dpmα	MDA	65 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	2136
Cal Due	9/25/04	Cal Due	N/A	Cal Due	1/23/05
Bkg	93.0 cpmβ	Bkg	N/A cpmβ	Bkg	678.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	190 dpmβ	MDA	200 dpmβ	MDA	563 dpmβ

Survey Tracking # 883-04-S 544

Survey Type: Contamination

Building: 883

Location: SOP Annex South - Outside

Purpose: Job coverage (Pre-Fix)

RWP #: 04-880-0001

Date: 9/13/04 Time: 1600

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. Annex Ceiling and Wall Decon.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Ceiling Beam (see map)	N/A	N/A	1100	N/A	N/A	<563
2	Ceiling Beam (see map)	N/A	N/A	1300	N/A	N/A	<563
3	Ceiling Beam (see map)	N/A	N/A	1500	N/A	N/A	<563
4	Ceiling Beam (see map)	N/A	N/A	1650	N/A	N/A	10000
5	Ceiling Beam (see map)	N/A	N/A	5000	N/A	N/A	10000
6	Ceiling Beam (see map)	N/A	N/A	4500	N/A	N/A	<563
7	Ceiling Beam (see map)	N/A	N/A	5500	N/A	N/A	<563
8	Ceiling Beam (see map)	N/A	N/A	5000	N/A	N/A	<563
9	Ceiling Beam (see map)	N/A	N/A	6000	N/A	N/A	11000
10	Ceiling Beam (see map)	N/A	N/A	4500	N/A	N/A	10000
11	Ceiling Beam (see map)	N/A	N/A	5900	N/A	N/A	10000
12	Ceiling Beam (see map)	N/A	N/A	4950	N/A	N/A	12000
13	Ceiling Beam (see map)	N/A	N/A	7500	N/A	N/A	200000
14	Ceiling Beam (see map)	N/A	N/A	1850	N/A	25000	10000
15	Ceiling Beam (see map)	N/A	N/A	1700	N/A	15000	5000
16	Ceiling Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<563
17	Ceiling Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<563
18	Ceiling Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<563
19	Ceiling Beam after decon (see map)	N/A	N/A	<65	N/A	N/A	<563
20	Ceiling Beam after decon (see map)	[redacted]					

Date Reviewed: 9/13/04 **RS Supervision:** [redacted]

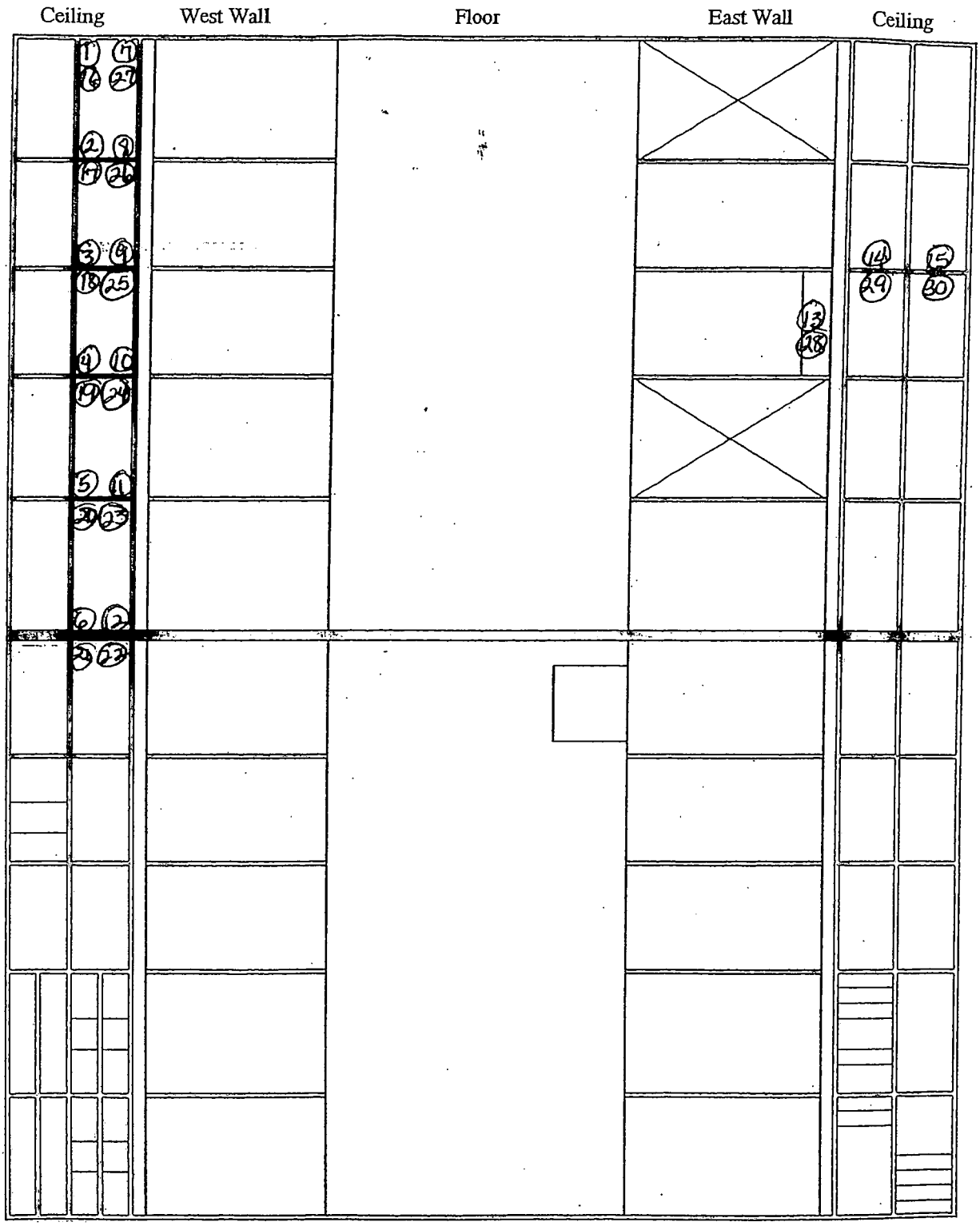
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

	LOCATION	ALPHA			BETA		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
22	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
23	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
24	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
25	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
26	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
27	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
28	Ceiling Beam after Decon (see map)	N/A	300	<65	N/A	3500	<576
29	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
30	Ceiling Beam after Decon (see map)	N/A	N/A	<65	N/A	N/A	<576
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-5544

NORTH



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	2136
Cal Due	2/16/05	Cal Due	N/A	Cal Due	1/23/05
Bkg	0.1 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	34.60 %	Efficiency	33.00 %	Efficiency	21.60 %
MDA	18 dpmα	MDA	20 dpmα	MDA	61 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	2136
Cal Due	2/16/05	Cal Due	N/A	Cal Due	1/23/05
Bkg	90.4 cpmβ	Bkg	N/A cpmβ	Bkg	686.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	188 dpmβ	MDA	200 dpmβ	MDA	566 dpmβ

Survey Tracking # 883-04-S545

Survey Type: Contamination

Building: 883

Location: SOP Annex South-Ouhd

Purpose: Job coverage (Pre-Fix)

RWP #: 04-880-0001

[redacted]

RCT:	N/A	N/A	N/A
	Print name	Signature	Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. Annex Ceiling and Wall Decon.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Ceiling Beam (see map)	N/A	N/A	<61	N/A	N/A	<566
2	Ceiling Beam (see map)	N/A	N/A	1300	N/A	N/A	5000
3	Ceiling Beam (see map)	N/A	N/A	<61	N/A	N/A	<566
4	Ceiling Beam (see map)	N/A	N/A	900	N/A	N/A	10000
5	Ceiling Beam (see map)	N/A	N/A	1100	N/A	N/A	10000
6	Ceiling Beam (see map)	N/A	N/A	1600	N/A	N/A	15000
7	Ceiling Beam (see map)	N/A	N/A	<61	N/A	N/A	<566
8	Ceiling Beam (see map)	N/A	N/A	<61	N/A	N/A	<566
9	Ceiling Beam (see map)	N/A	N/A	700	N/A	N/A	8000
10	Ceiling Beam (see map)	N/A	N/A	1000	N/A	N/A	10000
11	Ceiling Beam (see map)	N/A	N/A	1200	N/A	N/A	11000
12	Ceiling Beam (see map)	N/A	N/A	600	N/A	N/A	5000
13	Ceiling Beam (see map)	N/A	N/A	250	N/A	N/A	3000
14	Ceiling Beam (see map)	N/A	N/A	1100	N/A	N/A	10000
15	Ceiling Beam (see map)	N/A	N/A	1000	N/A	N/A	10000
16	Ceiling Beam (see map)	N/A	N/A	1750	N/A	N/A	15000
17	Ceiling Beam (see map)	N/A	N/A	850	N/A	N/A	8500
18	Ceiling Beam (see map)	N/A	N/A	<61	N/A	N/A	<566
19	Ceiling Beam (see map)	N/A	N/A	<61	N/A	N/A	<566
20	Ceiling Beam (see map)	N/A	N/A	<61	N/A	N/A	<566

Date Reviewed: 9/14/04 **RS Supervision** [redacted]

883-04-S545

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Ceiling Beam (see map)	N/A	N/A	1200	N/A	N/A	10000
22	Ceiling Beam (see map)	N/A	N/A	950	N/A	N/A	10000
23	Ceiling Beam (see map)	N/A	N/A	1600	N/A	N/A	15000
24	Ceiling Beam (see map)	N/A	N/A	1350	N/A	N/A	12000
25	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
26	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
27	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
28	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
29	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
30	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
31	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
32	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
33	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
34	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
35	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
36	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
37	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
38	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
39	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
40	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
41	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
42	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
43	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
44	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
45	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
46	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
47	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
48	Ceiling Beam after Decon (see map)	N/A	N/A	<61	N/A	N/A	<566
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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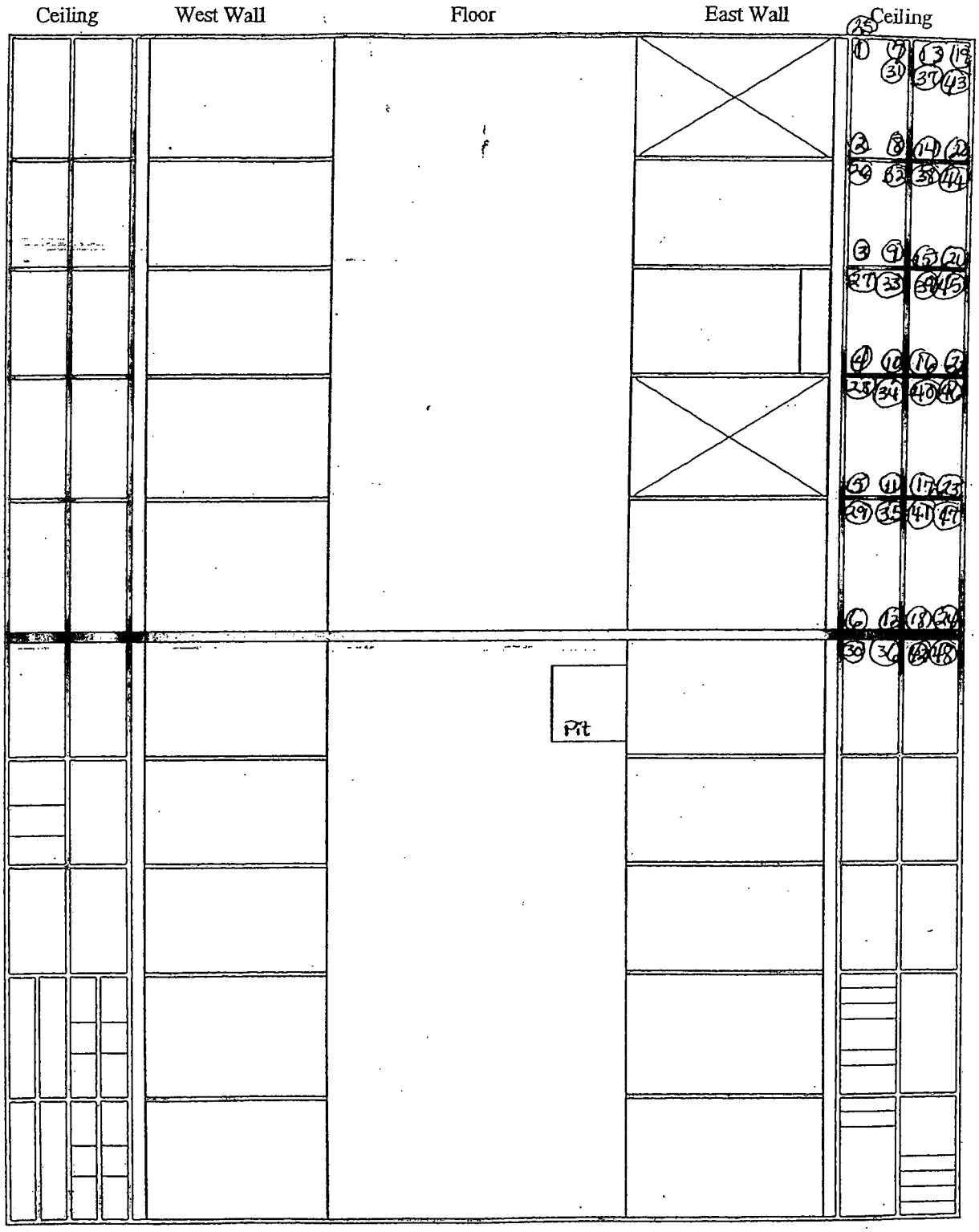
883-445-545

NORTH



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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	2136
Cal Due	2/16/05	Cal Due	N/A	Cal Due	1/23/05
Bkg	0.3 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	34.60 %	Efficiency	33.00 %	Efficiency	21.60 %
MDA	18 dpmα	MDA	20 dpmα	MDA	65 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	2136
Cal Due	2/16/05	Cal Due	N/A	Cal Due	1/23/05
Bkg	91.6 cpmβ	Bkg	N/A cpmβ	Bkg	756.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	189 dpmβ	MDA	200 dpmβ	MDA	593 dpmβ

Survey Tracking # 883-04-S 565

Survey Type: Contamination

Building: 883

Location: SOP Annex South - Misc

Purpose: Job coverage (Pre-Fix)

RWP #: 04-880-0001

Date: 9/15/04 Time: 1600

[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed as job coverage. Beta readings are according to Depleted Uranium. Annex Ceiling and Wall Decon. West wall needs to be sealed at top, bottom and corners. DA 9-15-04

SURVEY RESULTS

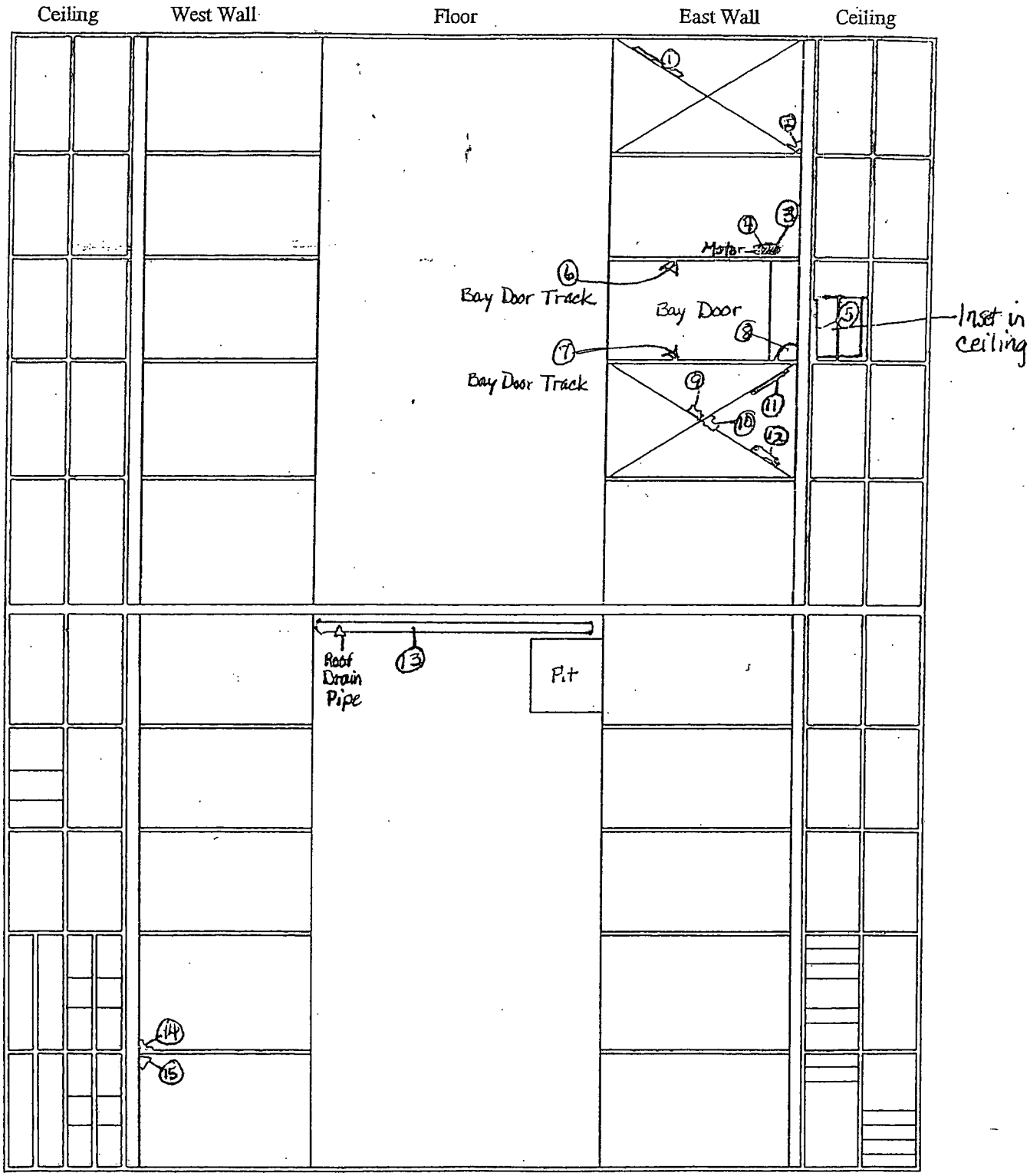
#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Cross Angle Iron (see map)	N/A	N/A	<65	N/A	20000	<593 DA 9-15-04
2	Wall Beam Corner (see map)	N/A	N/A	<65	N/A	25000	<593
3	Rolling Door Motor on wall (see map)	N/A	N/A	<65	N/A	20000	<593
4	Rolling Door Motor (see map)	N/A	N/A	<65	N/A	25000	<593
5	Inset in Ceiling (see map)	N/A	N/A	<65	N/A	5000	<593
6	Track of Bay Door (see map)	N/A	N/A	<65	N/A	30000	<593
7	Track of Bay Door (see map)	N/A	N/A	<65	N/A	30000	<593
8	Wall and Corner of Wall Beam (see map)	N/A	N/A	<65	N/A	20000	<593
9	Cross Angle Iron (see map)	N/A	N/A	<65	N/A	15000	<593
10	Cross Angle Iron (see map)	N/A	N/A	<65	N/A	15000	<593
11	Cross Angle Iron (see map)	N/A	N/A	<65	N/A	10000	<593
12	Cross Angle Iron (see map)	N/A	N/A	<65	N/A	15000	<593
13	Roof Drain Pipe (see map)	N/A	N/A	<65	N/A	50000	<593
14	Ceiling Beam Corner (see map)	N/A	N/A	<65	N/A	25000	<593
15	Ceiling Beam Corner (see map)	N/A	N/A	<65	N/A	25000	<593
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 9/15/04 **RS Su** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Page 2 of 2
883-04-0565

NORTH



ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Eberline	Mfg.	NE Electra	Mfg.	NE Electra
Model	BC-4	Model	DP-6	Model	DP-6
Serial #	911	Serial #	290	Serial #	2352
Cal Due	10/29/04	Cal Due	2/18/05	Cal Due	11/13/04
Bkg.	0.3 cpm β	Bkg.	811.0 cpm β	Bkg.	627 cpm β
Efficiency	14.0 %	Efficiency	22.0 %	Efficiency	22.0 %
MDA	18 dpm β	MDA	745 dpm β	MDA	745 dpm β
Mfg.	Ludlum	Mfg.	NE Electra	Mfg.	N/A
Model	2929	Model	DP-6	Model	N/A
Serial #	99042	Serial #	1379	Serial #	N/A
Cal Due	10/26/04	Cal Due	2/18/05	Cal Due	N/A
Bkg.	25.0 cpm β	Bkg.	474.0 cpm β	Bkg.	N/A cpm
Efficiency	39.0 %	Efficiency	22.0 %	Efficiency	N/A
MDA	205 dpm β	MDA	745 dpm β	MDA	N/A dpm

Survey type: Contamination
Building: B-883
Location: 'A' annex (east annex) (Pre)
Purpose: Characterize overhead and walls
RWP #: N/A
Date: 9/18/04 Time: 1600

[redacted]

Comments: Isotope of concern is Depleted Uranium. Instrument efficiencies listed above are the prescribed default values for D.U.

SURVEY RESULTS

ID #	LOCATION/DESCRIPTION	DP-6 (dpm/100cm²) Swipe Beta	DP-6 (dpm/100cm²) Direct Beta	ID #	LOCATION/DESCRIPTION	DP-6 (dpm/100cm²) Swipe Beta	DP-6 (dpm/100cm²) Direct Beta
1	See Map	<258	<745	21	See Map	<258	<745
2	See Map	<258	<745	22	See Map	<258	<745
3	See Map	**387**	<745	23	See Map	<258	<745
4	See Map	<258	<745	24	See Map	<258	<745
5	See Map	**437**	<745	25	See Map	<258	<745
6	See Map	**330**	<745	26	See Map	<258	<745
7	See Map	<258	<745	27	See Map	<258	<745
8	See Map	<258	<745	28	See Map	<258	<745
9	See Map	<258	<745	29	See Map	**330**	<745
10	See Map	**337**	<745	30	See Map	**259**	<745
11	See Map	<258	<745	31	See Map	<258	<745
12	See Map	**337**	<745	32	See Map	<258	<745
13	See Map	<258	<745	33	See Map	<258	<745
14	See Map	<258	<745	34	See Map	<258	<745
15	See Map	**280**	<745	35	See Map	<258	<745
16	See Map	<258	<745	36	See Map	**280**	<745
17	See Map	<258	<745	37	See Map	**294**	<745
18	See Map	<258	<745	38	See Map	**316**	<745
19	See Map	**301**	<745	39	See Map	**287**	<745
20	See Map	**294**	[redacted]	[redacted]	[redacted]	[redacted]	[redacted]

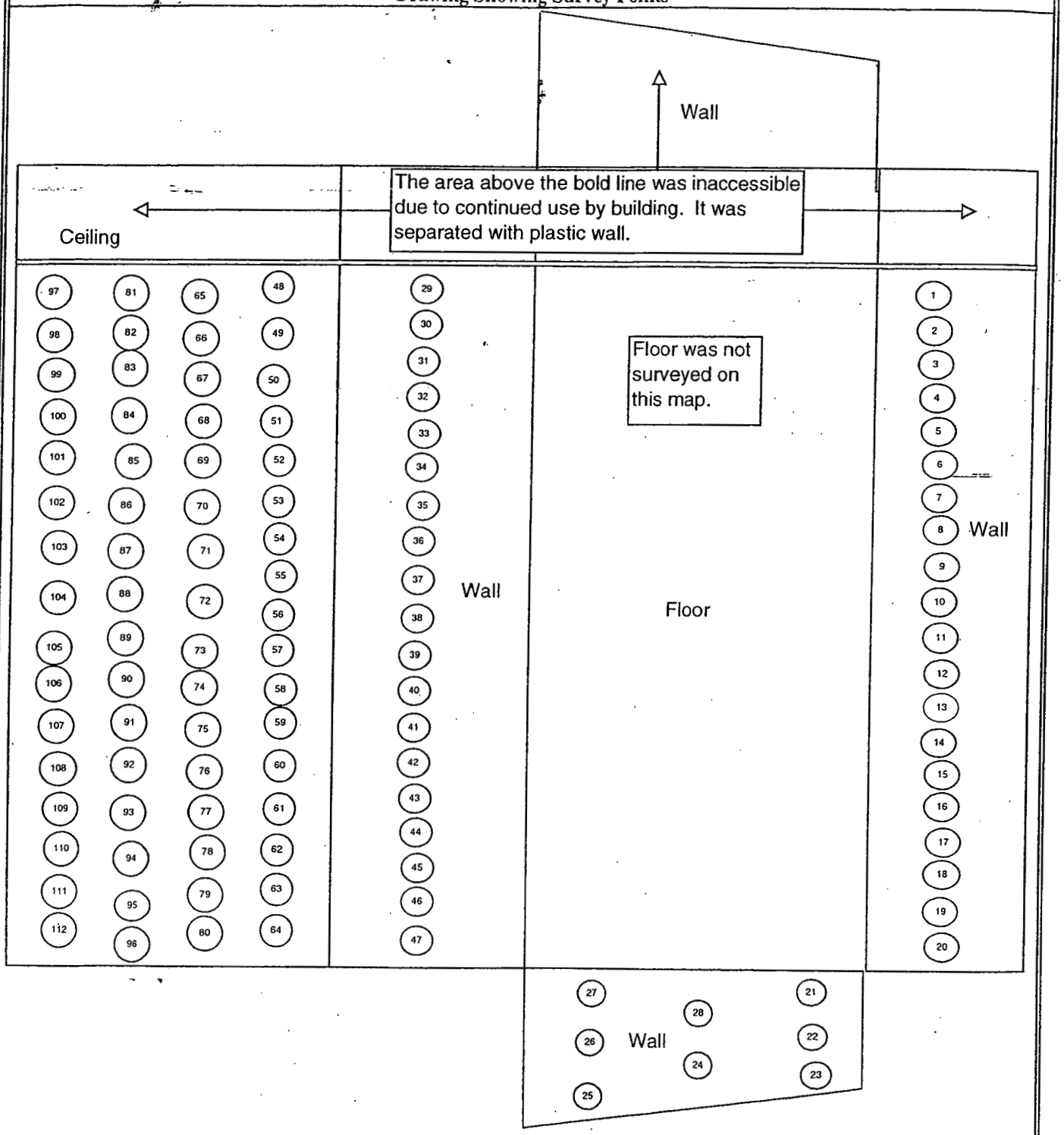
Date Reviewed: 9/20/04 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

ID #	LOCATION/DESCRIPTION	DP-6 (dpm/100cm²) Swipe Beta	DP-6 (dpm/100cm²) Direct Beta	ID #	LOCATION/DESCRIPTION	DP-6 (dpm/100cm²) Swipe Beta	DP-6 (dpm/100cm²) Direct Beta
41	See Map	**387**	**1150**	84	See Map	<258	<745
42	See Map	**387**	**958**	85	See Map	**287**	<745
43	See Map	**294**	**890**	86	See Map	<258	<745
44	See Map	**594**	**1060**	87	See Map	**358**	<745
45	See Map	**266**	<745	88	See Map	<258	<745
46	See Map	<258	<745	89	See Map	**344**	<745
47	See Map	**273**	**1050**	90	See Map	<258	<745
48	See Map	<258	<745	91	See Map	<258	<745
49	See Map	<258	<745	92	See Map	**530**	<745
50	See Map	<258	<745	93	See Map	<258	<745
51	See Map	**273**	<745	94	See Map	<258	<745
52	See Map	**294**	<745	95	See Map	**309**	<745
53	See Map	<258	<745	96	See Map	<258	<745
54	See Map	<258	<745	97	See Map	<258	<745
55	See Map	**301**	<745	98	See Map	**423**	<745
56	See Map	<258	<745	99	See Map	<258	<745
57	See Map	<258	<745	100	See Map	<258	<745
58	See Map	**380**	<745	101	See Map	**344**	<745
59	See Map	<258	<745	102	See Map	**345**	**745**
60	See Map	<258	<745	103	See Map	<258	<745
61	See Map	**315**	<745	104	See Map	**365**	<745
62	See Map	<258	<745	105	See Map	<258	<745
63	See Map	<258	<745	106	See Map	<258	<745
64	See Map	<258	<745	107	See Map	**351**	<745
65	See Map	**337**	<745	108	See Map	<258	<745
66	See Map	<258	<745	109	See Map	**273**	<745
67	See Map	<258	<745	110	See Map	<258	<745
68	See Map	<258	<745	111	See Map	<258	<745
69	See Map	**287**	<745	112	See Map	**265**	<745
70	See Map	<258	<745	N/A	N/A	N/A	N/A
71	See Map	<258	<745	N/A	N/A	N/A	N/A
72	See Map	<258	<745	N/A	N/A	N/A	N/A
73	See Map	**301**	**764**	N/A	N/A	N/A	N/A
74	See Map	<258	**755**	N/A	N/A	N/A	N/A
75	See Map	**315**	<745	N/A	N/A	N/A	N/A
76	See Map	<258	<745	N/A	N/A	N/A	N/A
77	See Map	<258	<745	N/A	N/A	N/A	N/A
78	See Map	**337**	<745	N/A	N/A	N/A	N/A
79	See Map	<258	<745	N/A	N/A	N/A	N/A
80	See Map	<258	<745	N/A	N/A	N/A	N/A
81	See Map	**259**	<745	N/A	N/A	N/A	N/A
82	See Map	<258	<745	N/A	N/A	N/A	N/A
83	See Map	**330**	<745	N/A	N/A	N/A	N/A

Drawing Showing Survey Points



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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	NE Electra	Mfg.	N/A	Mfg.	N/A
Model	DP-6	Model	N/A	Model	N/A
Serial #	290	Serial #	N/A	Serial #	N/A
Cal Due	2/18/05	Cal Due	N/A	Cal Due	N/A
Bkg.	811.0 cpm β	Bkg.	N/A cpm β	Bkg.	N/A cpm β
Efficiency	22.0 %	Efficiency	N/A %	Efficiency	N/A %
MDA	745 dpm β	MDA	N/A dpm β	MDA	N/A dpm β

Mfg.	N/A	Mfg.	NE Electra	Mfg.	N/A
Model	N/A	Model	N/A	Model	N/A
Serial #	N/A	Serial #	N/A	Serial #	N/A
Cal Due	N/A	Cal Due	N/A	Cal Due	N/A
Bkg.	N/A cpm β	Bkg.	N/A cpm β	Bkg.	N/A cpm β
Efficiency	N/A %	Efficiency	N/A %	Efficiency	N/A %
MDA	N/A dpm β	MDA	N/A dpm β	MDA	N/A dpm β

Comments: Isotope of concern is Depleted Uranium. Instrument efficiencies listed above are the prescribed default values for D.U.

The fixed locations listed below were found in addition to the locations noted on D. Anderson's survey of 9/15/04. Survey tracking # 883-04-S565.

Survey type: Fixed Contamination

Building: B-883

Location: 'A' annex (east annex) (Pre-Fix)

Purpose: Characterize overhead and walls

RWP #: N/A

Date: 9/18/04 Time: 1600

[redacted]

	Print name	Signature	Emp. #
RCT:	N/A	N/A	N/A
RCT:	N/A	N/A	N/A
RCT:	N/A	N/A	N/A

SURVEY RESULTS

ID #	LOCATION/DESCRIPTION	DP-6 (dpm/100cm²) Swipe Beta	DP-6 (dpm/100cm²) Direct Beta	ID #	LOCATION/DESCRIPTION	DP-6 (dpm/100cm²) Swipe Beta	DP-6 (dpm/100cm²) Direct Beta
1	See Map	N/A	**40K**	N/A	N/A	N/A	N/A
2	See Map	N/A	**17K**	N/A	N/A	N/A	N/A
3	See Map	N/A	**18K**	N/A	N/A	N/A	N/A
4	See Map	N/A	**13K**	N/A	N/A	N/A	N/A
5	See Map	N/A	**11K**	N/A	N/A	N/A	N/A
6	See Map	N/A	**16.5K**	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 9/20/04 **RS Supervision:** [redacted]

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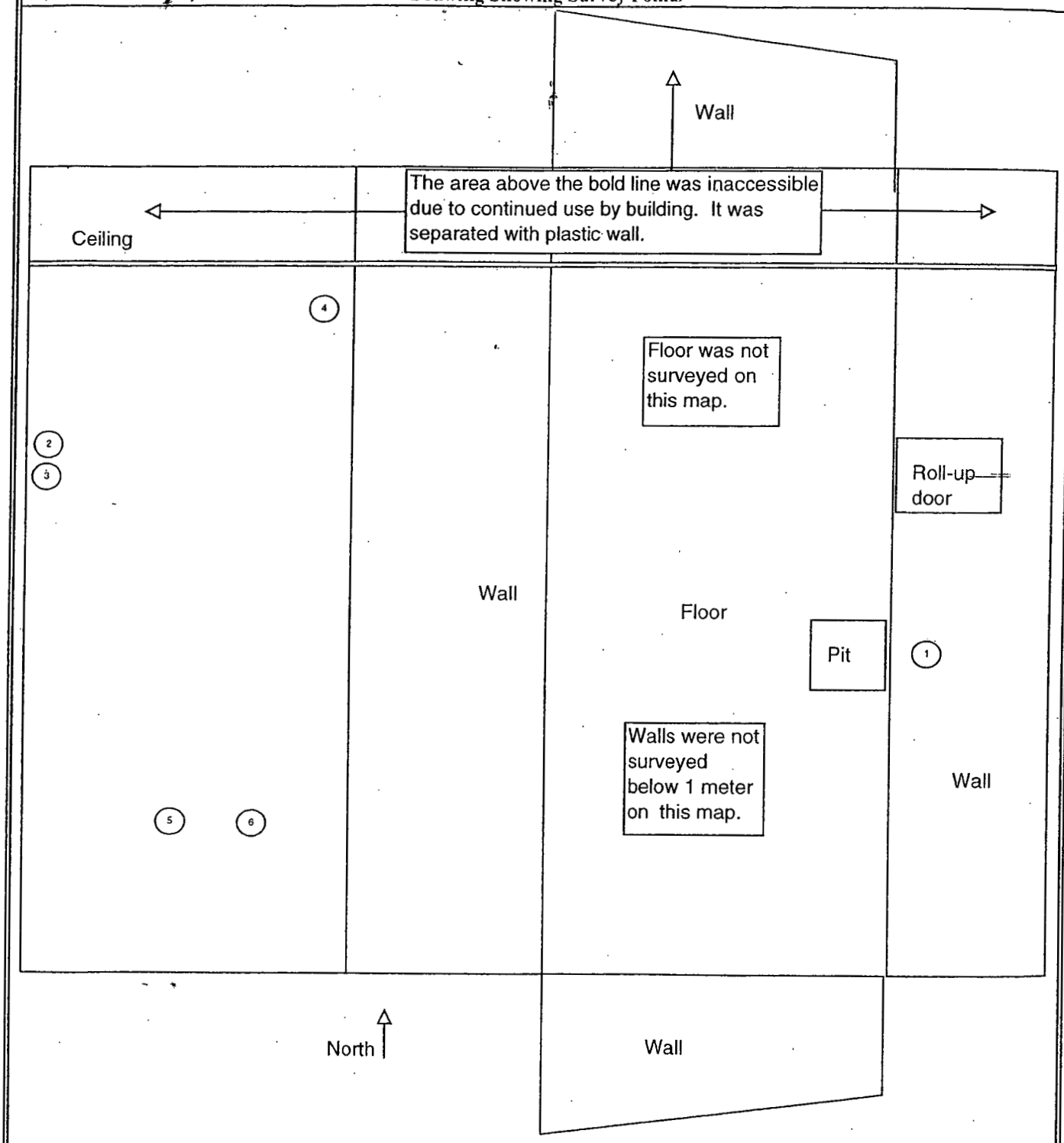
Drawing Showing Survey Points



ATTACHMENT B-7

Basement LLW Surveys

PRE-FIXATIVE LLW SURVEYS

Building 883 East Basement Areas
Post Decontamination Contamination Data
Summary

PRE- Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	Room 6 Floor	292	3,000
2	Room 6 Wall	236	5,952
3	Room 6 Floor	356	5,491
4	Room 6 Floor	372	5,914
5	Room 6 Wall	372	4,841
6	Room 6 Floor	528	3,600
7	Room 6 Wall	292	4,682
8	Room 8 Floor	241	3,950
9	Room 8 Wall	172	3,600
10	Room 8 Stairwell	172	2,050
11	Room 1 Floor	472	8,164
12	Room 1 Floor	568	11,677
13	Room 8 Stairwell	684	32,159
14	Room 1 Wall	360	4,909
15	Room 1 Floor	364	9,923
16	Room 1 Wall	832	4,714
17	Room 1 Floor	300	12,764
18	Room 1 Floor	664	14,545
19	Room 1 Floor	428	11,382
20	Room 1 Floor	412	18,800
21	Room 1 Floor	684	10,186
22	Room 1 Wall	420	4,427
23	Room 1 Wall	532	4,714
24	Room 7 Floor	480	10,000
25	Room 7 Wall	532	6,500
26	Room 7 Floor	404	3,600
27	Room 7 Floor	376	7,200
28	Room 7 Pedestal	360	5,800
29	Room 7 Wall	364	2,000
30	Room 7 Floor	428	3,600
31	Room 7 Pedestal	200	7,100
32	Room 7 Wall	376	3,600
33	Room 3 Floor	172	1,000
34	Room 3 Stairwell	172	1,500
35	Room 3 Wall	172	560

Building 883 East Basement Areas
Post Decontamination Contamination Data
Summary

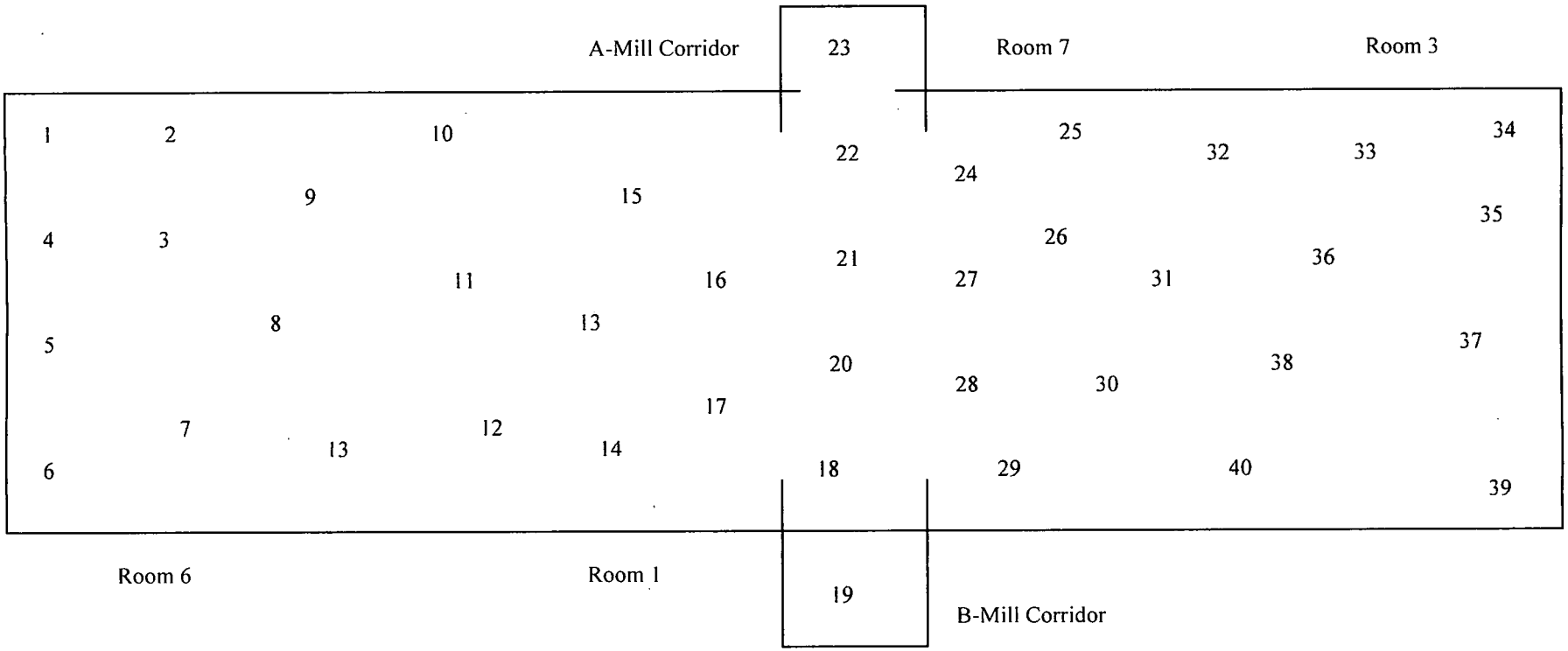
Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
36	Room 3 Floor	*172*	*560*
37	Room 3 Floor	*172*	*560*
38	Room 3 Floor	*172*	3,000
39	Room 3 Wall	*172*	*560*
40	Room 7 Floor	428	*560*
	No further entries		

Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	832	32,159
Mean (Average)	373	6,279
n	40	40
Standard Deviation	167	5,905

RE Comments	
G. M. Aldrich (303) 994-0942	Readings around East Basement Rooms 6 and 8, Room 1, Room 7 and Room 3 areas were broadly representative of floors, walls and overheads. All equipment has been removed and the area thoroughly pressure washed. Results in italics represent MDA readings. These surveys were all taken after decontamination activities and before application of fixative paint. Following this characterization, the entire basement except for Utility Room 6, Room 8 Stairwell, and Room 3 Utility areas of the basement were painted with fixative.

Bldg. 883 G7 & G1 East Basement Areas

Floor, Walls and Overhead
Post-Decontamination Characterization Map



Radiological Engineer Comments

Approximate locations of readings are shown on map. See attached Contamination Data Summary sheets for activity levels seen and various surfaces surveyed. Readings taken were biased to find highest levels possible. All readings were taken after pressure washing and before application of fixatives to the general areas of the basement.

N

257

Building 883 B-Side
Basement, Air Tunnel and Airbox
Contamination Data Summary

Pre-Fixative

Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
1	883, B-Side South Stairwell Floor	404	5,982
2	883, B-Side South Stairwell Floor	568	5,913
3	883, B-Side South Stairwell Floor	436	5,491
4	883, B-Side South Stairwell Wall	648	5,241
5	883, B-Side South Stairwell Wall	600	5,500
6	883, B-Side South Stairwell Floor	664	5,182
7	883, Room 5 Floor	684	8,164
8	883, Room 5 Floor	852	11,677
9	883, Room 5 Wall	656	6,136
10	883, Room 5 Floor	832	7,128
11	883, Room 9 Floor	512	9,923
12	883, Room 4 Floor	884	8,163
13	883, Room 5 East Floor/Wall Junction	532	32,159
14	883, Room 2 Elevator Shaft Floor	352	78,637
15	883, Room 2 Elevator Shaft Wall	472	12,763
16	883, B-Side Floor Near Air Tunnel	484	10,186
17	883, B-Side Floor Near Air Tunnel	656	14,545
18	B-Air Tunnel Entry	760	4,951
19	B-Air Tunnel Floor	1,132	20,000
20	B-Air Tunnel Wall	620	5,600
21	B-Air Tunnel Ceiling	836	5,211
22	B-Air Tunnel Floor	1,248	5,271
23	B-Air Tunnel Wall	760	3,357
24	B-Air Tunnel Ceiling	684	5,000
25	B-Air Tunnel Floor	2,532	25,000
26	B-Air Tunnel Wall	1,688	4,589
27	B-Air Tunnel Ceiling	760	5,211
28	B-Air Tunnel Floor Crack	1,528	20,000
29	B-Air Tunnel Wall	1,688	3,890
30	Room 108 Airbox Entry	2,532	5,271
31	Room 108 Airbox Wall	1,260	125,000
32	Room 108 Airbox Baffles	2,140	20,000
33	Room 108 Airbox Upper Wall/Shelf	1,132	150,000
34	Room 108 Airbox Floor	1,144	50,000
35	Room 108 Airbox Wall	988	10,000
36	Room 108 Airbox Floor	2,532	250,000
37	Room 108 Airbox Wall	760	19,290
38	Room 108 Airbox Floor	2,140	25,000

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Building 883 B-Side
Basement, Air Tunnel and Airbox
Contamination Data Summary

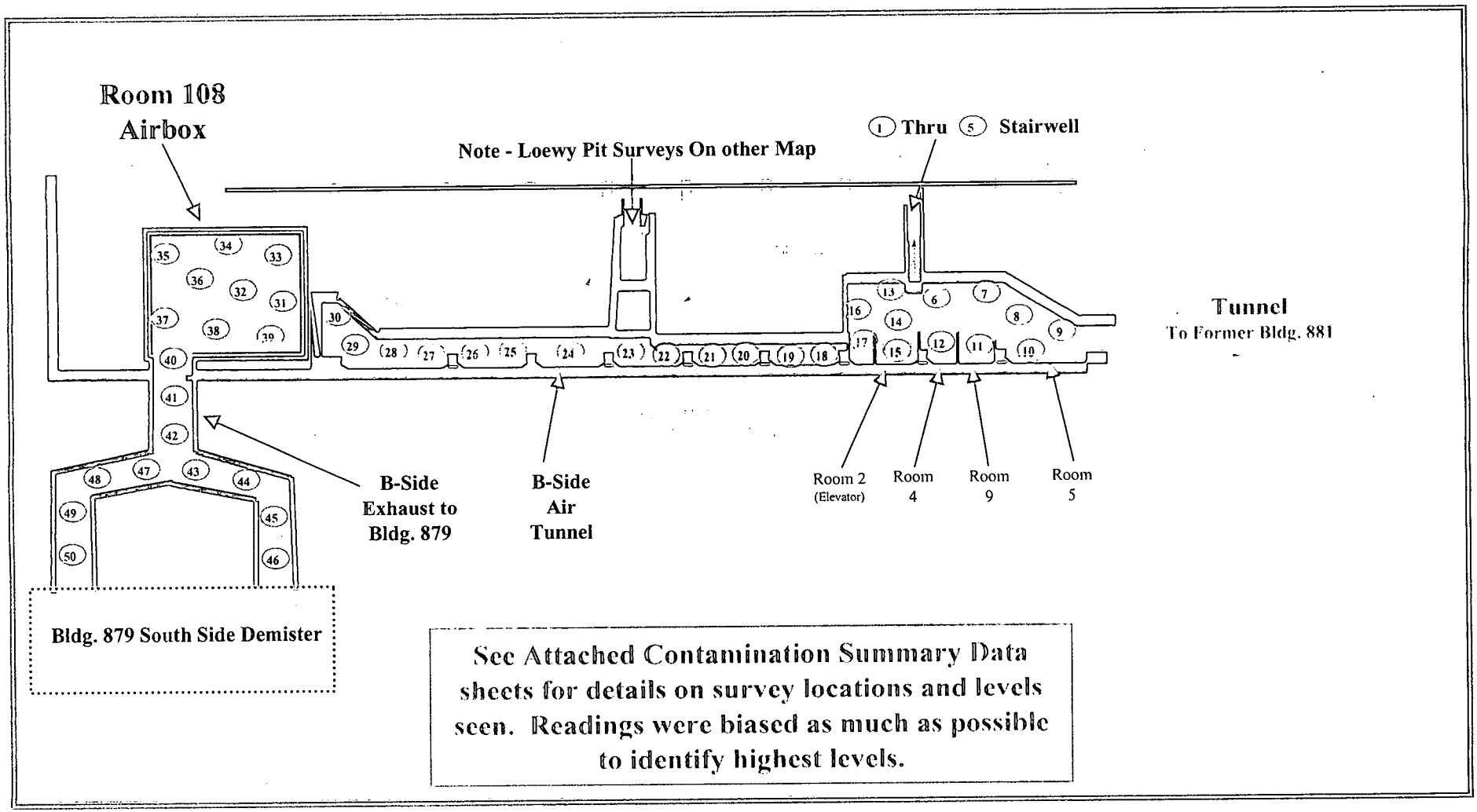
Survey Point	Approximate Location (See Attached Map)	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
39	Room 108 Airbox Upper Wall/Shelf	2,140	125,000
40	B-Airbox Exhaust Ducting Floor	391	20,000
41	B-Airbox Exhaust Ducting Floor	333	15,000
42	B-Airbox Exhaust Ducting Wall	279	4,400
43	B-Airbox Exhaust Ducting Floor	379	15,000
44	B-Airbox Exhaust Ducting Floor	333	3,500
45	B-Airbox Exhaust Ducting Wall	391	5,000
46	B-Airbox Exhaust Ducting Floor	279	20,000
47	B-Airbox Exhaust Ducting Floor	391	20,000
48	B-Airbox Exhaust Ducting Wall	333	3,500
49	B-Airbox Exhaust Ducting Floor	391	11,000
50	B-Airbox Exhaust Ducting Wall	279	4,400
	No further entries		

Statistical Summary	Beta Accessible Removable dpm/100cm^2	Beta Accessible Fixed dpm/100cm^2
Maximum	2,532	250,000
Mean (Average)	900	24,845
n	50	50
Standard Deviation	642	45,456

RE Comments	
G. M. Aldrich, X7175	Refer to the attached map for approximate survey locations, and descriptions of equipment and structures. Note that some pre-wipedown (bounding) fixed contamination readings were used from downstream areas for the B-side Air Box and B-Exhaust ducting fixed contamination levels. All removable levels are post-wipedown/pressure-wash.

Bldg. 883 B-Side Basement Level Post Pressure Wash

G1 Basement, B-Air Tunnel & Air Box Characterization



30d

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	NE Electra	Mfg.	NE Electra
Model	2929	Model	DP-6	Model	DP-6
Serial #	143866	Serial #	3131	Serial #	N/A
Cal Due	2/16/05	Cal Due	12/21/04	Cal Due	N/A
Bkg	0.2 cpmα	Bkg	4.0 cpmα	Bkg	N/A cpmα
Efficiency	34.80 %	Efficiency	22.30 %	Efficiency	N/A %
MDA	18 dpmα	MDA	55 dpmα	MDA	N/A dpmα
Mfg.	Ludlum	Mfg.	NE Electra	Mfg.	NE El[redacted]
Model	2929	Model	DP-6	Model	D[redacted]
Serial #	143866	Serial #	3131	Serial #	[redacted]
Cal Due	2/16/05	Cal Due	12/21/04	Cal Due	N/A
Bkg	75.5 cpmβ	Bkg	695.0 cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	22.00 %	Efficiency	N/A %
MDA	172 dpmβ	MDA	559 dpmβ	MDA	N/A dpmβ

Survey Tracking #	883-04-S1149
Survey Type:	Contamination
Building:	883
Location:	Basement East
Purpose:	Pre Sealant Spray Survey
RWP #:	N/A
Date:	12/15/04 Time: 1330
[redacted]	
RCT:	N/A / N/A / N/A
	Print name / Signature / Emp #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Floor (see map)	43	202	N/A	404	5982	N/A
2	Wall (see map)	<18	<55	N/A	568	4682	N/A
3	Floor (see map)	29	152	N/A	436	5914	N/A
4	Wall (see map)	<18	<55	N/A	412	4841	N/A
5	Floor (see map)	<18	117	N/A	648	5491	N/A
6	Wall (see map)	23	85	N/A	436	5241	N/A
7	Floor (see map)	29	269	N/A	600	5505	N/A
8	Wall (see map)	<18	67	N/A	428	5182	N/A
9	Wall (see map)	<18	85	N/A	376	4741	N/A
10	Floor (see map)	29	<55	N/A	664	8164	N/A
11	Floor (see map)	40	<55	N/A	360	11677	N/A
12	Wall (see map)	<18	85	N/A	364	6136	N/A
13	Floor (see map)	60	<55	N/A	684	7127	N/A
14	Wall (see map)	<18	<55	N/A	404	4909	N/A
15	Floor at Stair (see map)	55	67	N/A	852	9923	N/A
16	Floor (see map)	66	117	N/A	656	32159	N/A
17	Wall (see map)	29	152	N/A	832	12764	N/A
18	Floor (see map)	20	1081	N/A	396	78636	N/A
19	Floor (see map)	26	2812	N/A	300	10186	N/A
20	Wall (see map)	34	471	N/A	420	4714	N/A

Date Reviewed: 12/16/04 **RS Supervision:** [redacted]

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883 04-51149

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

	LOCATION	ALPHA			BETA		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Floor (see map)	40	453	N/A	512	14545	N/A
22	Floor (see map)	52	215	N/A	884	11382	N/A
23	Wall (see map)	<18	135	N/A	480	4427	N/A
24	Wall (see map)	26	67	N/A	532	4909	N/A
25	Wall (see map)	<18	Not Taken	N/A	352	Not Taken	N/A
26	Floor (see map)	<18	Not Taken	N/A	472	Not Taken	N/A
27	Floor (see map)	<18	<55	N/A	484	18800	N/A
28	Wall (see map)	20	<55	N/A	336	3936	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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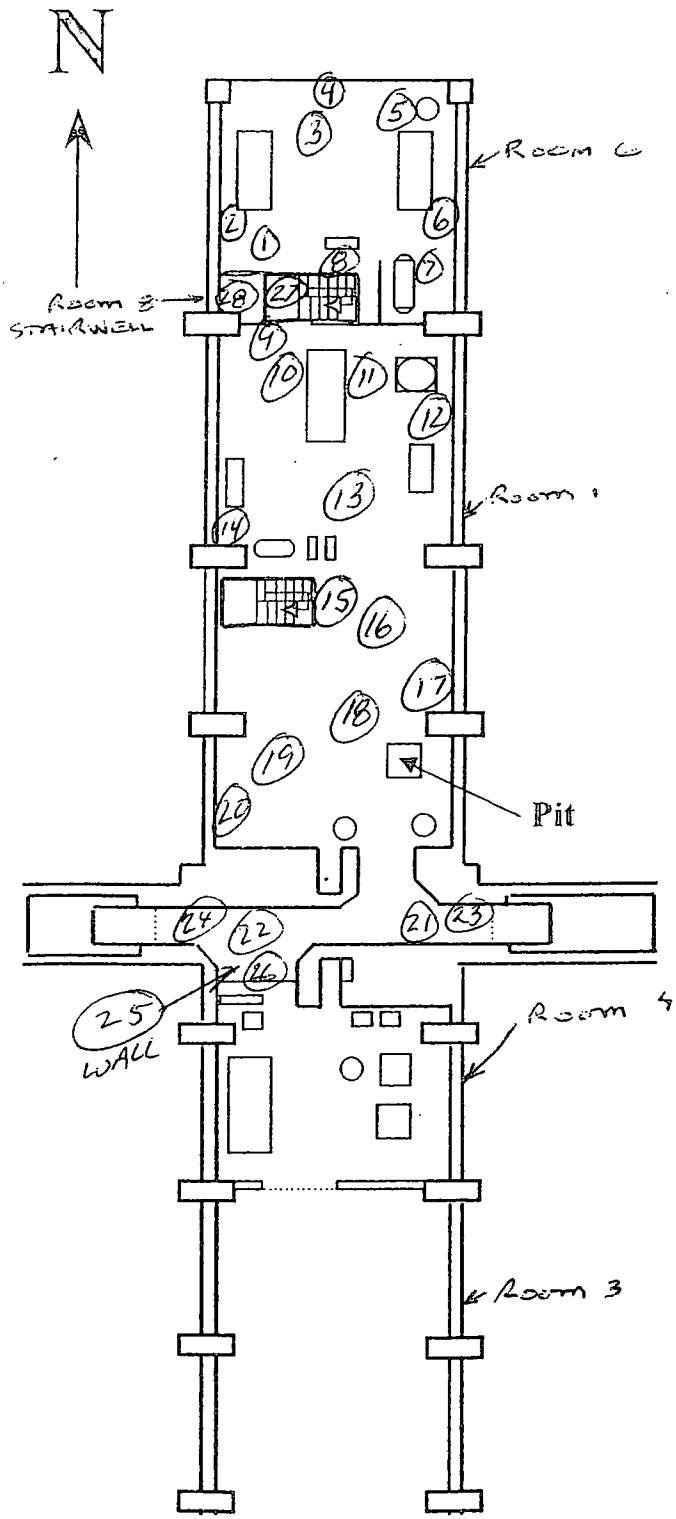
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

302

883-04-51149

ROCKY FLATS ENVIRONMENTAL TECHNOLOG

Drawing Showing Survey Points



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COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	2403
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/11/05
Bkg	0.3 cpmα	Bkg	N/A cpmα	Bkg	7.0 cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	21.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	69 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	2403
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/11/05
Bkg	71.5 cpmβ	Bkg	N/A cpmβ	Bkg	467.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	168 dpmβ	MDA	200 dpmβ	MDA	469 dpmβ

Survey Tracking # 883-04-S1230

Survey Type: Contamination, Swipe Only

Building: 883

Location: Room 6

Purpose: Post-Decon Survey (PRE) Fix

RWP #: N/A

Date: 1/6/05 Time: 0900

[redacted]

RCT: NA / NA / NA

Print name / Signature / Emp #

PRN/REN # : N/A

Comments: Nuclides of concern are Uranium. Survey performed to verify contamination levels upon completion of Decon in Room 6.

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Room 6 Wall	<18	N/A	N/A	292	N/A	N/A
2	Room 6 Wall	<18	N/A	N/A	236	N/A	N/A
3	Room 6 Wall	<18	N/A	N/A	356	N/A	N/A
4	Room 6 Wall	<18	N/A	N/A	356	N/A	N/A
5	Room 6 Floor	32	N/A	N/A	372	N/A	N/A
6	Room 6 Floor	43	N/A	N/A	372	N/A	N/A
7	Room 6 Floor	26	N/A	N/A	408	N/A	N/A
8	Room 6 Floor	<18	N/A	N/A	528	N/A	N/A
9	Room 6 Floor	<18	N/A	N/A	468	N/A	N/A
10	N/A	N/A	N/A	N/A	N/A	N/A	N/A
11	N/A	N/A	N/A	N/A	N/A	N/A	N/A
12	N/A	N/A	N/A	N/A	N/A	N/A	N/A
13	N/A	N/A	N/A	N/A	N/A	N/A	N/A
14	N/A	N/A	N/A	N/A	N/A	N/A	N/A
15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
16	N/A	N/A	N/A	N/A	N/A	N/A	N/A
17	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	N/A	N/A	N/A	N/A	N/A	N/A	N/A
20	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 1/6/05 **RS Supervision:** [redacted]

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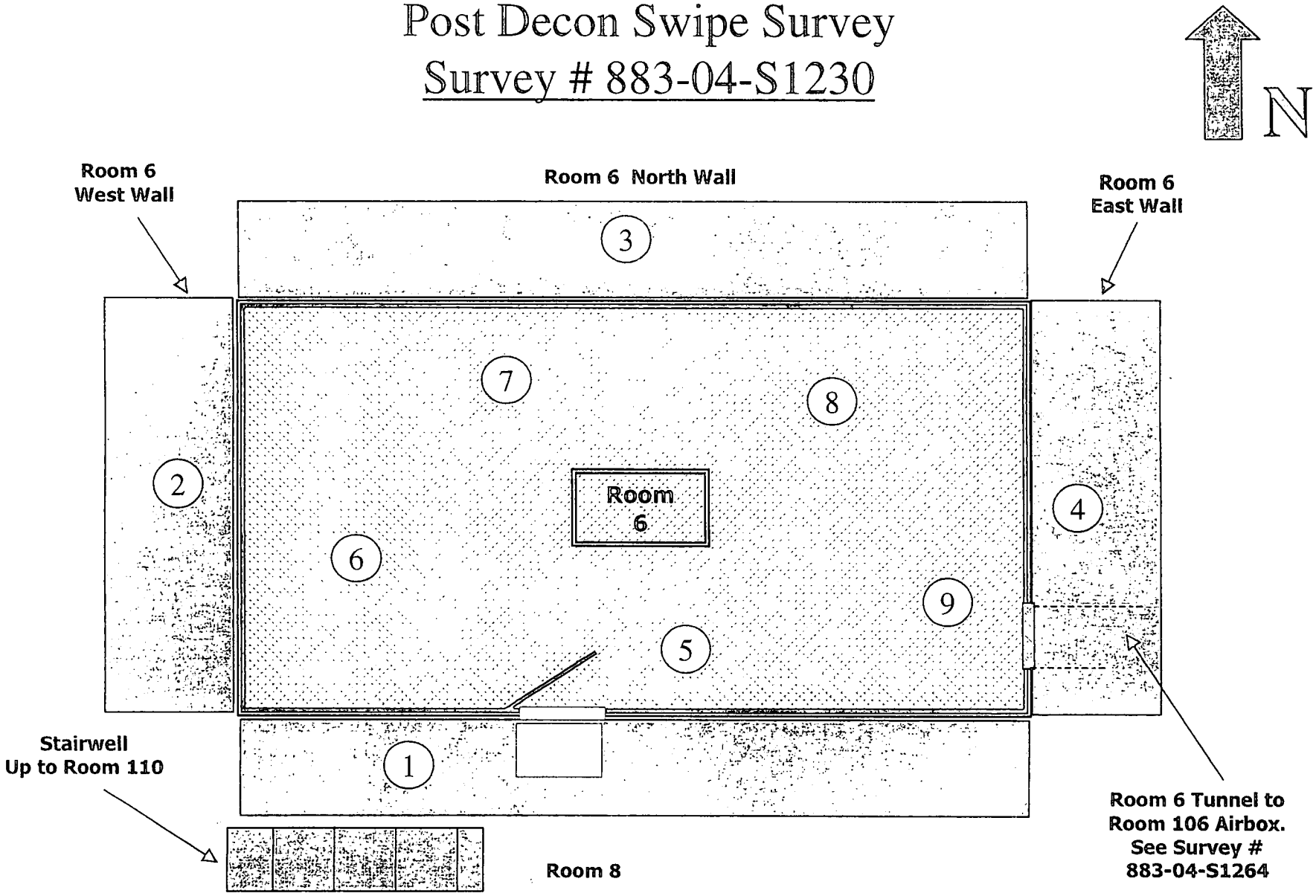
304

Bldg. 883 North Basement Room 6
Post Decon Swipe Survey
Survey # 883-04-S1230



Confirmatory swipe surveys were taken in approximate locations shown in Room 6 on floors and walls.

305

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	2373
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	3.0 cpmα
Efficiency	35.90 %	Efficiency	33.00 %	Efficiency	22.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	49 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	2373
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/26/05
Bkg	81.0 cpmβ	Bkg	N/A cpmβ	Bkg	481.0 cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	476 dpmβ

Survey Tracking # 880-03-S1238

Survey Type: Contamination

Building: 883

Location: Rm 6 Sump (PRE) Fix

Purpose: ~~Characterization and Inspection~~

RWP #: 880-05-0001

Date: 1/7/05 **Time:** 1400

[redacted]

RCT: NA / NA / NA

Print name / Signature / Emp. #

PRN/REN # : ~~030907-RISS-01~~

Comments: Nuclides of concern are fron Depleted Uranium. Survey performed to verify contamination levels of Rm 6 sump. Note: Standing water found in sump and sump swipes were taken above the water line.

SURVEY RESULTS

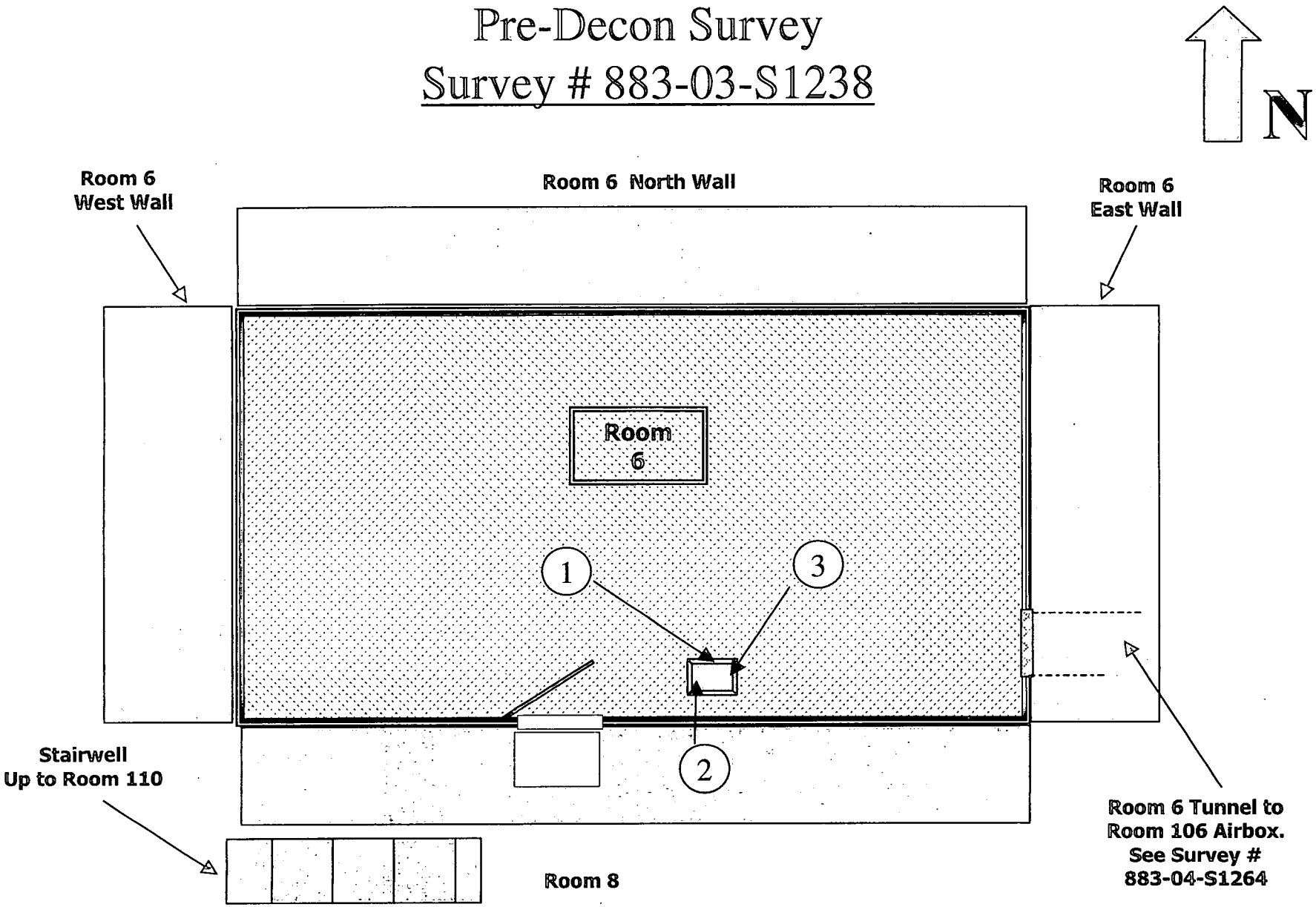
		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Top flange	33	N/A	N/A	782	25k	N/A
2	sump side wall	36	N/A	N/A	496	16.5k	N/A
3	sump side wall	27	N/A	N/A	520	10.2K	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	[redacted]					

Date Reviewed: 1/10/05 **RS Supervision:** [redacted]

COPY

306

Bldg. 883 North Basement Room 6 Sump
Pre-Decon Survey
Survey # 883-03-S1238



See Survey S1262 for post-decon/ post-paint levels in Room 6 Sump.
All water removed and the sump, and floor, walls and ledge of sump were completely wiped down after this survey.

307

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1393
Cal Due	3/14/05	Cal Due	N/A	Cal Due	3/30/05
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	2.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	18.20 %
MDA	18 dpmα	MDA	20 dpmα	MDA	51 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1393
Cal Due	3/14/05	Cal Due	N/A	Cal Due	3/30/05
Bkg	68.9 cpmβ	Bkg	N/A cpmβ	Bkg	633.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	165 dpmβ	MDA	200 dpmβ	MDA	544 dpmβ

Survey Tracking # 883-04-S1290
Survey Type: Contamination
Building: 883
Location: Room 6 Tunnel to Airbox
Purpose: Pre Paint

RWP #: 05-883-0001

Date: 1/3/05 Time: 0900

[redacted]

RCT: NA / NA / NA
Print name Signature Emp. #

PRN/REN #: N/A
Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed as pre paint evaluation.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Ledge Opening Floor	198	4659	N/A	1492	460759	N/A
2	Ledge Opening North Wall	212	<55	N/A	1376	569850	N/A
3	Ledge Opening Ceiling	147	2445	N/A	1860	38031	N/A
4	Ledge Opening South Wall	351	2462	N/A	1824	38941	N/A
5	Mid Tunnel Floor	217	13995	N/A	2484	222577	N/A
6	Mid Tunnel North Wall	614	3725	N/A	5744	34395	N/A
7	Mid Tunnel Ceiling	949	5099	N/A	7212	32577	N/A
8	Mid Tunnel South Wall	234	2297	N/A	3304	48941	N/A
9	End of Tunnel Floor	560	14824	N/A	3772	638032	N/A
10	End of Tunnel North Wall	913	1967	N/A	7460	24395	N/A
11	End of Tunnel Ceiling	692	6747	N/A	8236	32805	N/A
12	End of Tunnel South Wall	142	2626	N/A	1688	13259	N/A
13	North Wall Upper	304	41747	N/A	8444	30759	N/A
14	South Wall Upper	217	2868	N/A	2860	71668	N/A
15	Room 6 Floor at Opening	25	N/A	N/A	196	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 1/20/05 **RS Supervision:** [redacted]

COPY

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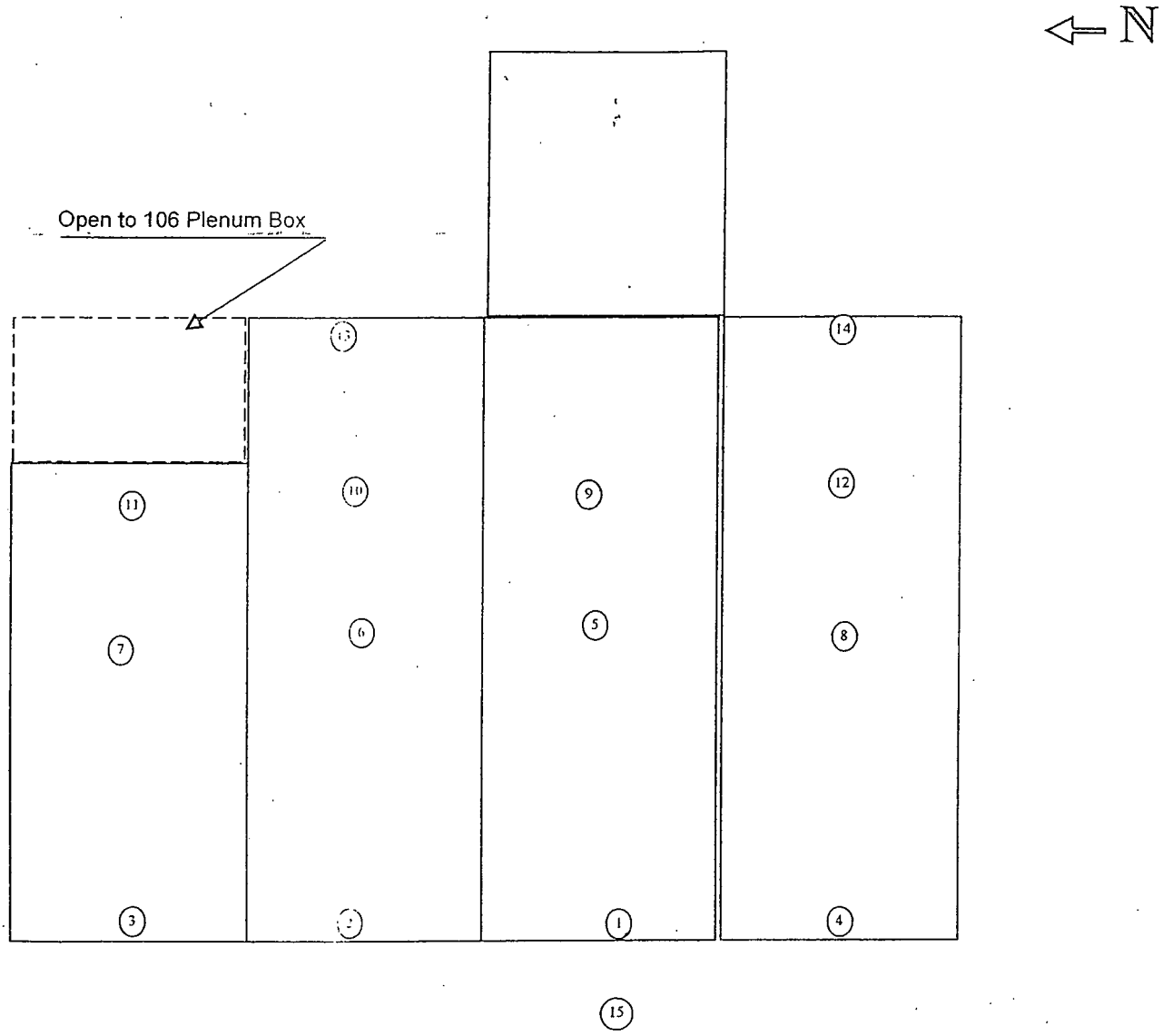
COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



Room 6 Air Tunnel

883-04-S1290

COPY

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	SAC-4	Model	N/A
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	N/A
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	N/A
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	BC-4	Model	N/A
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	73.4 cpmβ	Bkg	N/A cpmβ	Bkg	N/A
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A
MDA	170 dpmβ	MDA	200 dpmβ	MDA	N/A

Survey Tracking # 883-04-S1151

Survey Type: Contamination and Radiation

Building: 883

Location: East Air Tunnel

Purpose: BE Samples (22 Samples) (PRE) Fix

RWP #: N/A

Date: 12/15/04 Time: 0900

[redacted]

RCT: NA / NA / N/A

Print name / Signature / Emp. #

PRN/REN # : 040908-ASD-003

Comments: Nuclide of concern are Depleted Uranium with a correction factor used (22 each) "Be" Swipe samples.

#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2	#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2
1	883-12142004-313-001	43	322	20	883-12142004-313-067	57	638
2	883-12142004-313-002	474	2181	21	883-12142004-313-068	98	503
3	883-12142004-313-010	23	339	22	883-12142004-313-069	158	951
4	883-12142004-313-011	52	362	23	Inner Package, External	<18	<170
5	883-12142004-313-014	29	313	24	Outer Package, External	<18	<170
6	883-12142004-313-021	290	1216	25	N/A	N/A	N/A
7	883-12142004-313-025	52	509	26	N/A	N/A	N/A
8	883-12142004-313-029	63	491	27	N/A	N/A	N/A
9	883-12142004-313-030	46	428	28	N/A	N/A	N/A
10	883-12142004-313-033	256	1109	29	N/A	N/A	N/A
11	883-12142004-313-044	167	1037	30	N/A	N/A	N/A
12	883-12142004-313-059	72	615	31	N/A	N/A	N/A
13	883-12142004-313-060	572	2945	32	N/A	N/A	N/A
14	883-12142004-313-061	319	2063	33	N/A	N/A	N/A
15	883-12142004-313-062	20	319	34	N/A	N/A	N/A
16	883-12142004-313-063	49	480	35	N/A	N/A	N/A
17	883-12142004-313-064	46	376	36	N/A	N/A	N/A
18	883-12142004-313-065	80	684	37	N/A	N/A	N/A
19	883-12142004-313-066	190	833	38	N/A	N/A	N/A

Date Reviewed: 12/15/04 **RS Supervisio** [redacted]

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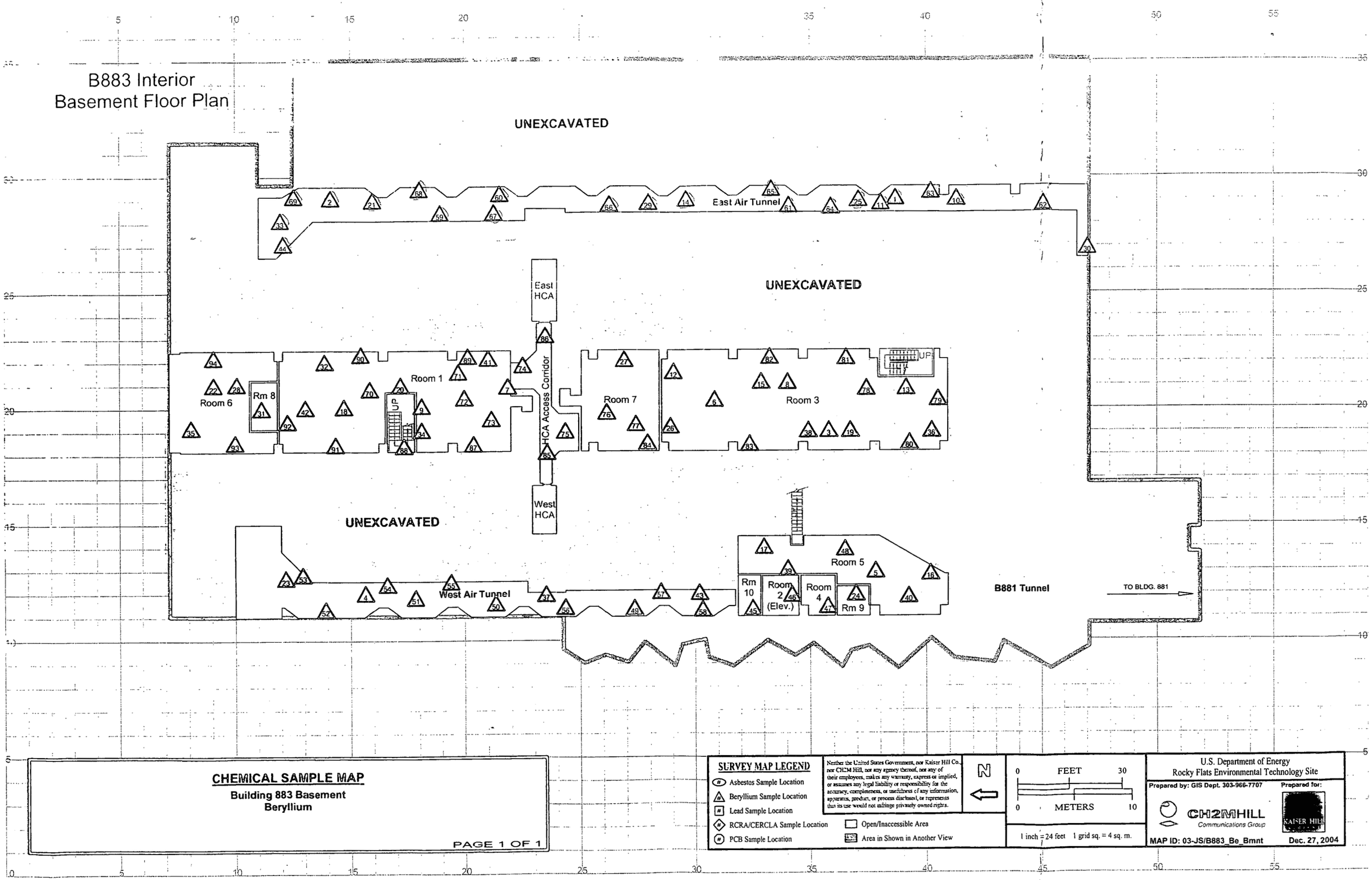
B883 Interior
Basement Floor Plan
UNEXCAVATED
East Air Tunnel
UNEXCAVATED
East HCA
HCA Access Corridor
West HCA
Room 1
Room 6
Rm 8
Room 7
Room 3
UP
UNEXCAVATED
Room 5
Rm 10
Room 2 (Elev.)
Room 4
Rm 9
West Air Tunnel
B881 Tunnel
TO BLDG. 881
CHEMICAL SAMPLE MAP
Building 883 Basement
Beryllium
PAGE 1 OF 1
SURVEY MAP LEGEND
Asbestos Sample Location
Beryllium Sample Location
Lead Sample Location
RCRA/CERCLA Sample Location
PCB Sample Location
Open/Inaccessible Area
Area in Shown in Another View
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N
0 FEET 30
0 METERS 10
1 inch = 24 feet 1 grid sq. = 4 sq. m.
U.S. Department of Energy
Rocky Flats Environmental Technology Site
Prepared by: GIS Dept. 303-966-7707
Prepared for:
CH2MHILL
Communications Group
KAISER HILL
MAP ID: 03-JS/B883_Be_Bmnt
Dec. 27, 2004

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	SAC-4	Model	N/A
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	N/A
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	N/A
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	BC-4	Model	N/A
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	75.0 cpmβ	Bkg	N/A cpmβ	Bkg	N/A
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A
MDA	172 dpmβ	MDA	200 dpmβ	MDA	N/A

Survey Tracking # 883-04-S1077
Survey Type: Contamination and Radiation
Building: 883
Location: Basement Rooms & Elevator
Purpose: BE Samples (10 Samples) (PRE) FIX
RWP #: N/A
Date: 12/6/04 Time: 1050
[redacted]
RCT: NA / NA / N/A
Print name Signature Emp. #

PRN/REN #: 040908-ASD-001
Comments: Nuclide of concern are Depleted Uranium with a correction factor used (10 each) "Be" Swipe samples. drawing

±

#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2	#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2
1	883-12062004-313-005	<18	<172	20	N/A	N/A	N/A
2	883-12062004-313-016	<18	<172	21	N/A	N/A	N/A
3	883-12062004-313-017	<18	<172	22	N/A	N/A	N/A
4	883-12062004-313-024	<18	<172	23	N/A	N/A	N/A
5	883-12062004-313-039	<18	<172	24	N/A	N/A	N/A
6	883-12062004-313-040	<18	<172	25	N/A	N/A	N/A
7	883-12062004-313-045	<18	<172	26	N/A	N/A	N/A
8	883-12062004-313-046	<18	<172	27	N/A	N/A	N/A
9	883-12062004-313-047	<18	<172	28	N/A	N/A	N/A
10	883-12062004-313-048	<18	<172	29	N/A	N/A	N/A
11	Inner Package, External	<18	<172	30	N/A	N/A	N/A
12	Outer Package, External	<18	<172	31	N/A	N/A	N/A
13	N/A	N/A	N/A	32	N/A	N/A	N/A
14	N/A	N/A	N/A	33	N/A	N/A	N/A
15	N/A	N/A	N/A	34	N/A	N/A	N/A
16	N/A	N/A	N/A	35	N/A	N/A	N/A
17	N/A	N/A	N/A	36	N/A	N/A	N/A
18	N/A	N/A	N/A	37	N/A	N/A	N/A
19	N/A	N/A	N/A	38	N/A	N/A	N/A

Date Reviewed: 12/6/04 **RS Supervision:** [redacted]
Print Name Signature Emp. #

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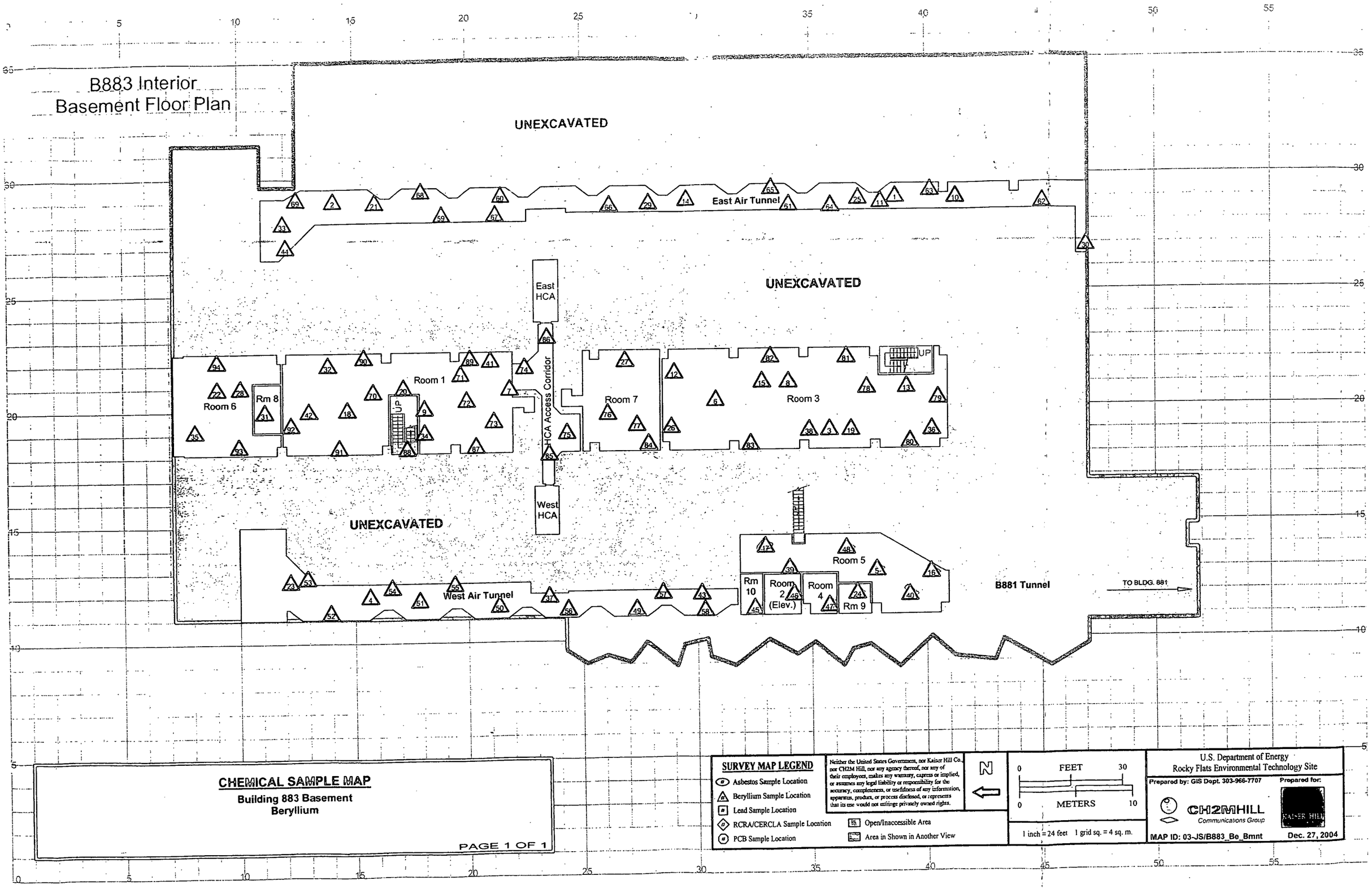

CHEMICAL SAMPLE MAP

Building 883 Basement
Beryllium

PAGE 1 OF 1

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POST-FIXATIVE LLW SURVEYS

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	N/A cpmα
Efficiency	34.10 %	Efficiency	33.00 %	Efficiency	N/A %
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE El[redacted]
Model	2929	Model	BC-4	Model	D[redacted]
Serial #	147866	Serial #	N/A	Serial #	N[redacted]
Cal Due	2/16/05	Cal Due	N/A	Cal Due	N[redacted]
Bkg	76.5 cpmβ	Bkg	N/A cpmβ	Bkg	N/A cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	N/A dpmβ

Survey Tracking # 883-04-S1214

Survey Type: Contamination

Building: 883

Location: 883 Basement

Purpose: Post Paint Survey

RWP #: 04-880-0002

Date: 12/29/04 Time: 1015

[redacted]

RCT: N/A / N/A / N/A

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclide of concern is depleted uranium . Survey performed to assess removable contamination in painted areas. Correction factors for DU applied. See map.

SURVEY RESULTS

	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	WALL	<18	N/A	N/A	<205	N/A	N/A
2	FLOOR	<18	N/A	N/A	<205	N/A	N/A
3	WALL	<18	N/A	N/A	<205	N/A	N/A
4	FLOOR	<18	N/A	N/A	<205	N/A	N/A
5	WALL	<18	N/A	N/A	<205	N/A	N/A
6	CORNER	<18	N/A	N/A	<205	N/A	N/A
7	FLOOR	<18	N/A	N/A	<205	N/A	N/A
8	FLOOR/WALL CREASE	32	N/A	N/A	<205	N/A	N/A
9	FLOOR	<18	N/A	N/A	<205	N/A	N/A
10	FLOOR	21	N/A	N/A	<205	N/A	N/A
11	FLOOR/WALL CREASE	<18	N/A	N/A	<205	N/A	N/A
12	IN PIT	<18	N/A	N/A	<205	N/A	N/A
13	FLOOR	28	N/A	N/A	<205	N/A	N/A
14	WALL	<18	N/A	N/A	<205	N/A	N/A
15	FLOOR	<18	N/A	N/A	<205	N/A	N/A
16	FLOOR IN CORNER	28	N/A	N/A	<205	N/A	N/A
17	WALL	<18	N/A	N/A	<205	N/A	N/A
18	PEDESTAL	36	N/A	N/A	<205	N/A	N/A
19	FLOOR	52	N/A	N/A	<205	N/A	N/A
20	STAIRS	90	N/A	N/A	500	N/A	N/A

Date Reviewed: 12/31/04 **RS Supervision:** [redacted]

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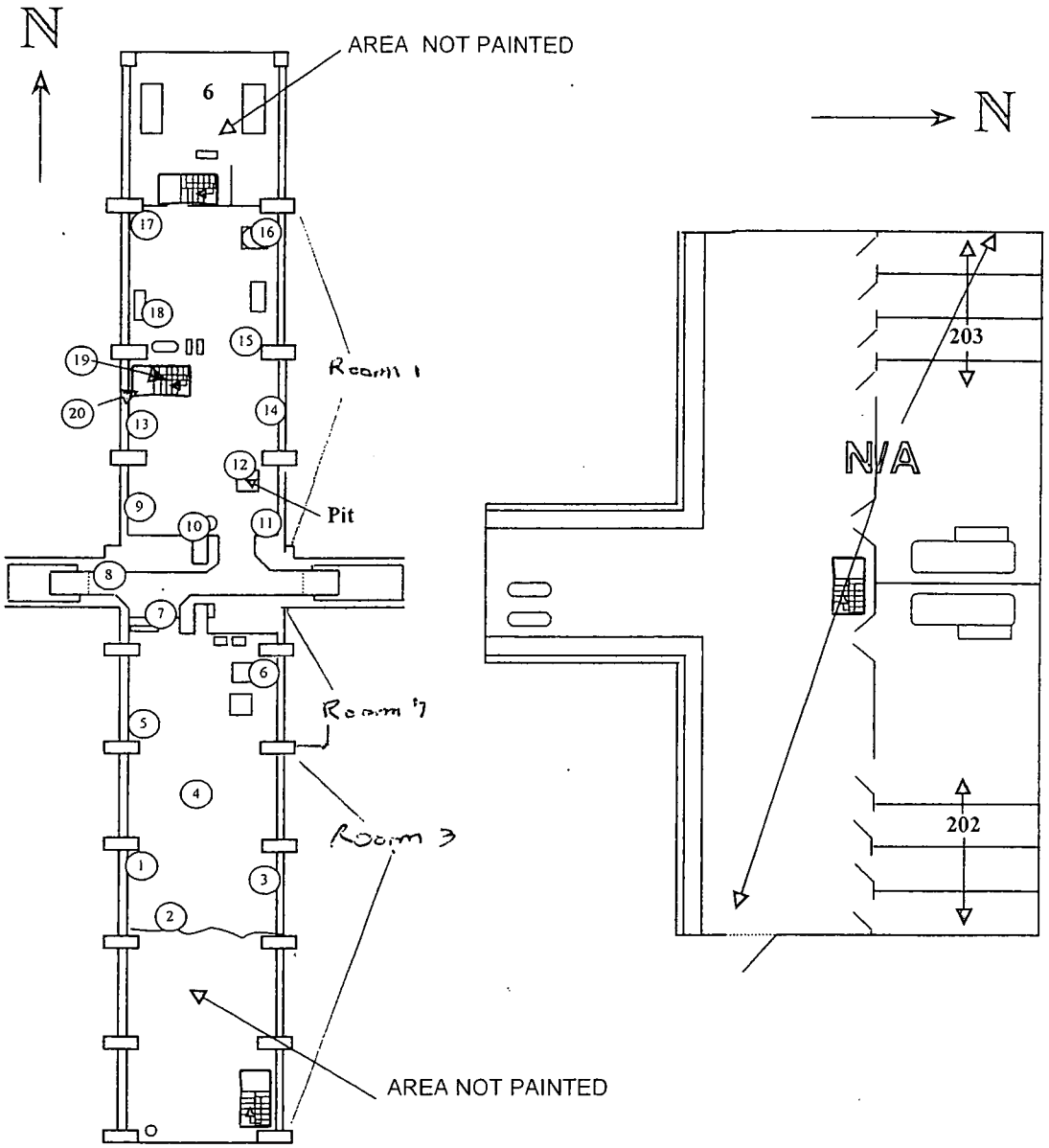
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	6.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	20.00 %
MDA	18 dpmα	MDA	20 dpmα	MDA	71 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	152277	Serial #	N/A	Serial #	1134
Cal Due	4/21/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	80.1 cpmβ	Bkg	N/A cpmβ	Bkg	515.0 cpmβ
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	492 dpmβ

Survey Tracking # 883-04-S1266

Survey Type: Contamination

Building: 883

Location: Basement Rm# 1,3,6,7 Floors&Walls

Purpose: Rm# 1,7 Post-paint Rm# 3,6 Post decon

RWP #: 05-883-0001

Date: 1/13/05 Time: 10:00

[redacted]

PRN/REN #: N/A

Comments: Nuclides of concern is Depleted Uranium correction factor adjusted above.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Rm# 6 Floor	<18	N/A	N/A	<205	760K	N/A
2	Rm# 6 Floor	37	N/A	N/A	<205	N/A	N/A
3	Rm# 6 Floor	48	N/A	N/A	312	N/A	N/A
4	Rm# 6 Pedistol	26	N/A	N/A	<205	N/A	N/A
5	Rm# 6 Floor	40	N/A	N/A	260	N/A	N/A
6	Rm# 6 Pedistol	<18	N/A	N/A	<205	N/A	N/A
7	Rm# 6 Floor	48	N/A	N/A	260	N/A	N/A
8	Rm# 6 Floor	26	N/A	N/A	248	N/A	N/A
9	Rm# 6 Floor	20	N/A	N/A	<205	N/A	N/A
10	Rm# 6 Floor	31	N/A	N/A	<205	N/A	N/A
11	Rm# 6 South Wall	<18	N/A	N/A	<205	N/A	N/A
12	Rm# 6 West Wall	<18	N/A	N/A	<205	N/A	N/A
13	Rm# 6 West Wall	<18	N/A	N/A	<205	N/A	N/A
14	Rm# 6 North Wall	<18	N/A	N/A	<205	N/A	N/A
15	Rm# 6 North Wall	<18	N/A	N/A	<205	N/A	N/A
16	Rm# 6 East Wall	<18	N/A	N/A	<205	N/A	N/A
17	Rm# 6 East Wall	34	N/A	N/A	260	N/A	N/A
18	Rm# 6 East Wall	<18	N/A	N/A	<205	N/A	N/A
19	Rm# 6 Inside East Wall	70	N/A	N/A	<205	N/A	N/A
20	Rm# 6 South Wall	<18	N/A	N/A	396	25000	N/A

Date Reviewed: 1/14/05 1/15/05 1/14/05 **RS Supervision:** [redacted]

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Rm# 1 Floor	<18	N/A	N/A	<205	N/A	N/A
22	Rm# 1 Floor	<18	N/A	N/A	<205	N/A	N/A
23	Rm# 1 Floor	<18	N/A	N/A	<205	N/A	N/A
24	Rm# 1 Floor	<18	N/A	N/A	<205	N/A	N/A
25	Rm# 1 Floor	<18	N/A	N/A	<205	N/A	N/A
26	Rm# 1 Floor	<18	N/A	N/A	<205	N/A	N/A
27	Rm#1 Pit	<18	N/A	N/A	<205	N/A	N/A
28	Rm# 1 Floor	<18	N/A	N/A	<205	240K	N/A
29	Rm# 1 Floor	<18	N/A	N/A	<205	500K	N/A
30	Rm# 1 Floor	<18	N/A	N/A	<205	500K	N/A
31	Rm# 1 North Wall	<18	N/A	N/A	<205	N/A	N/A
32	Rm# 1 North Wall	<18	N/A	N/A	<205	N/A	N/A
33	Rm# 1 West Wall	<18	N/A	N/A	<205	N/A	N/A
34	Rm# 1 West Wall	<18	N/A	N/A	<205	N/A	N/A
35	Rm# 1 West Wall	<18	N/A	N/A	<205	N/A	N/A
36	Rm# 1 West Wall under the stairs	<18	N/A	N/A	<205	N/A	N/A
37	Rm# 1 West Wall	<18	N/A	N/A	<205	N/A	N/A
38	Rm# 1 South Wall	<18	N/A	N/A	<205	N/A	N/A
39	Rm# 1 East Wall	<18	N/A	N/A	<205	N/A	N/A
40	Rm# 1 East Wall	<18	N/A	N/A	<205	N/A	N/A
41	Rm# 1 East Wall	<18	N/A	N/A	<205	N/A	N/A
42	Rm# 7 North Wall	<18	N/A	N/A	<205	N/A	N/A
43	Rm# 7 North Wall	<18	N/A	N/A	<205	N/A	N/A
44	Rm# 7 North Wall	<18	N/A	N/A	<205	N/A	N/A
45	Rm# 7 West Wall	<18	N/A	N/A	<205	N/A	N/A
46	Rm# 7 West Wall	<18	N/A	N/A	<205	N/A	N/A
47	Rm# 7 East Wall	<18	N/A	N/A	<205	N/A	N/A
48	Rm# 7 East Wall	<18	N/A	N/A	<205	N/A	N/A
49	Rm# 7 East Wall	<18	N/A	N/A	<205	N/A	N/A
50	Rm# 7 North Wall	<18	N/A	N/A	<205	N/A	N/A
51	Rm# 7 Floor	<18	N/A	N/A	<205	N/A	N/A
52	Rm# 7 Floor	40	N/A	N/A	276	N/A	N/A
53	Rm# 7 Floor	<18	N/A	N/A	<205	N/A	N/A
54	Rm# 7 Floor	<18	N/A	N/A	<205	N/A	N/A
55	Rm# 7 Floor in closet	<18	N/A	N/A	<205	N/A	N/A
56	Rm# 7 Pedistol	<18	N/A	N/A	<205	N/A	N/A
57	Rm# 7 Floor	<18	N/A	N/A	<205	N/A	N/A
58	Rm# 7 Floor	<18	N/A	N/A	<205	N/A	N/A
59	Rm# 7 Floor	<18	N/A	N/A	<205	N/A	N/A
60	Rm# 7 Floor	<18	N/A	N/A	<205	N/A	N/A
61	Rm# 3 Floor	<18	N/A	N/A	<205	N/A	N/A
62	Rm# 3 Floor	<18	N/A	N/A	<205	N/A	N/A
63	Rm# 3 Floor	<18	N/A	N/A	<205	N/A	N/A
64	Rm# 3 Floor	<18	N/A	N/A	<205	N/A	N/A
65	Rm# 3 Floor	<18	N/A	N/A	<205	N/A	N/A
66	Rm# 3 Floor	<18	N/A	N/A	<205	N/A	N/A
67	Rm# 3 Floor Sump	<18	N/A	N/A	<205	N/A	N/A

 883-04-3126

318

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

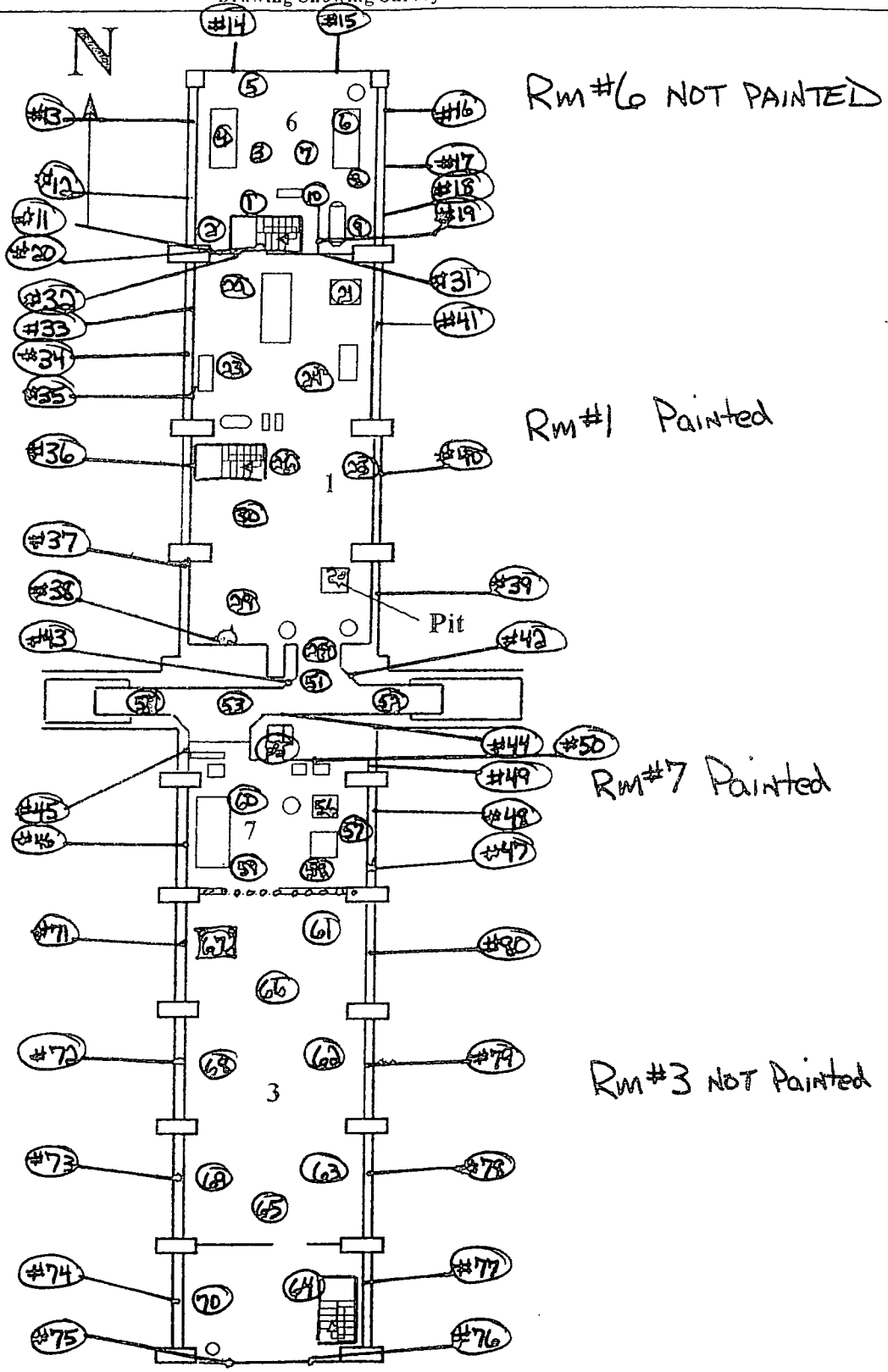
		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
68	Rm# 3 Floor	<18	N/A	N/A	<205	N/A	N/A
69	Rm# 3 Floor	<18	N/A	N/A	<205	N/A	N/A
70	Rm# 3 Floor	<18	N/A	N/A	<205	N/A	N/A
71	Rm# 3 West Wall	<18	N/A	N/A	<205	N/A	N/A
72	Rm# 3 West Wall	<18	N/A	N/A	<205	N/A	N/A
73	Rm# 3 West Wall	<18	N/A	N/A	<205	N/A	N/A
74	Rm# 3 West Wall	<18	N/A	N/A	<205	N/A	N/A
75	Rm# 3 South Wall	<18	N/A	N/A	<205	N/A	N/A
76	Rm# 3 South Wall	<18	N/A	N/A	<205	N/A	N/A
77	Rm# 3 East Wall under the stairs	<18	N/A	N/A	<205	N/A	N/A
78	Rm# 3 East Wall	<18	N/A	N/A	<205	N/A	N/A
79	Rm# 3 East Wall	<18	N/A	N/A	<205	N/A	N/A
80	Rm# 3 East Wall	<18	N/A	N/A	<205	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-5126G

319

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



 883-04-51266

320

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1410
Cal Due	3/14/05	Cal Due	N/A	Cal Due	1/26/05
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	2.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	42 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1410
Cal Due	3/14/05	Cal Due	N/A	Cal Due	1/26/05
Bkg	71.2 cpmβ	Bkg	N/A cpmβ	Bkg	486.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	168 dpmβ	MDA	200 dpmβ	MDA	478 dpmβ

Survey Tracking # 883-04-S1262

Survey Type: Contamination

Building: 883

Location: Room 6 Sump

Purpose: Post Paint

RWP #: 05-883-0001

Date: 1/13/05 Time: 1330

[redacted]

RCT: NA / NA / NA

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed as post paint evaluation.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe	ALPHA Direct	ALPHA Wipe	BETA Swipe	BETA Direct	BETA Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1	Floor	<18	N/A	N/A	<168	N/A	N/A
2	Wall	<18	N/A	N/A	<168	N/A	N/A
3	Wall	<18	N/A	N/A	<168	N/A	N/A
4	Wall	<18	N/A	N/A	<168	N/A	N/A
5	Wall	<18	N/A	N/A	<168	N/A	N/A
6	Flange	<18	N/A	N/A	<168	N/A	N/A
7	Flange	<18	N/A	N/A	<168	N/A	N/A
8	Flange	<18	N/A	N/A	<168	N/A	N/A
9	Flange	<18	N/A	N/A	<168	N/A	N/A
10	Outside flange on floor	<18	N/A	N/A	308	40K	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	[redacted]					

Date Reviewed: 1/14/05 **RS Supervision:** [redacted]

COPY

321

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
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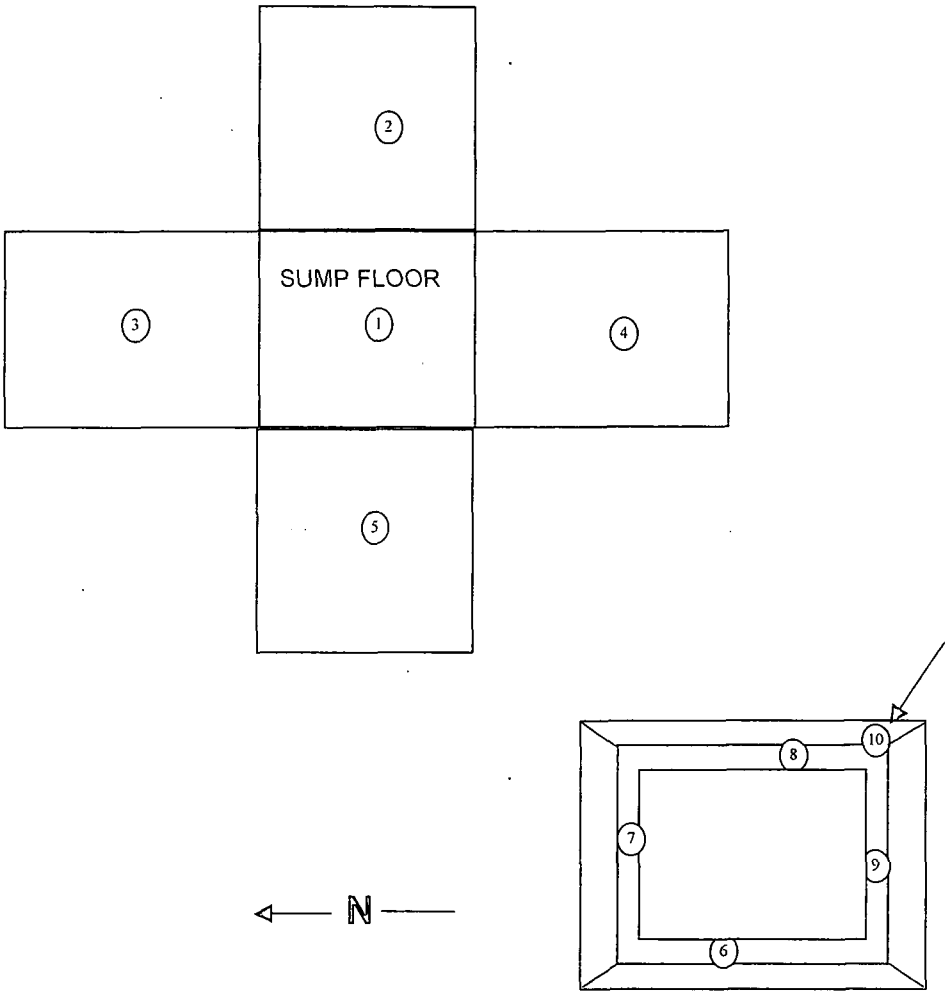
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

COPY

322

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



Room 6 Sump

COPY

323

COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1410
Cal Due	3/14/05	Cal Due	N/A	Cal Due	1/26/05
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	2.0 cpmα
Efficiency	35.10 %	Efficiency	33.00 %	Efficiency	21.90 %
MDA	18 dpmα	MDA	20 dpmα	MDA	42 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1410
Cal Due	3/14/05	Cal Due	N/A	Cal Due	1/26/05
Bkg	71.2 cpmβ	Bkg	N/A cpmβ	Bkg	486.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	168 dpmβ	MDA	200 dpmβ	MDA	478 dpmβ

Survey Tracking # 883-04-S1264

Survey Type: Contamination

Building: 883

Location: Room 6 Tunnel to Airbox

Purpose: Post Paint

RWP #: 05-883-0001

Date: 1/13/05 Time: 1300

R [redacted]

RCT: NA / NA / NA

Print name Signature Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed as post paint evaluation.

SURVEY RESULTS

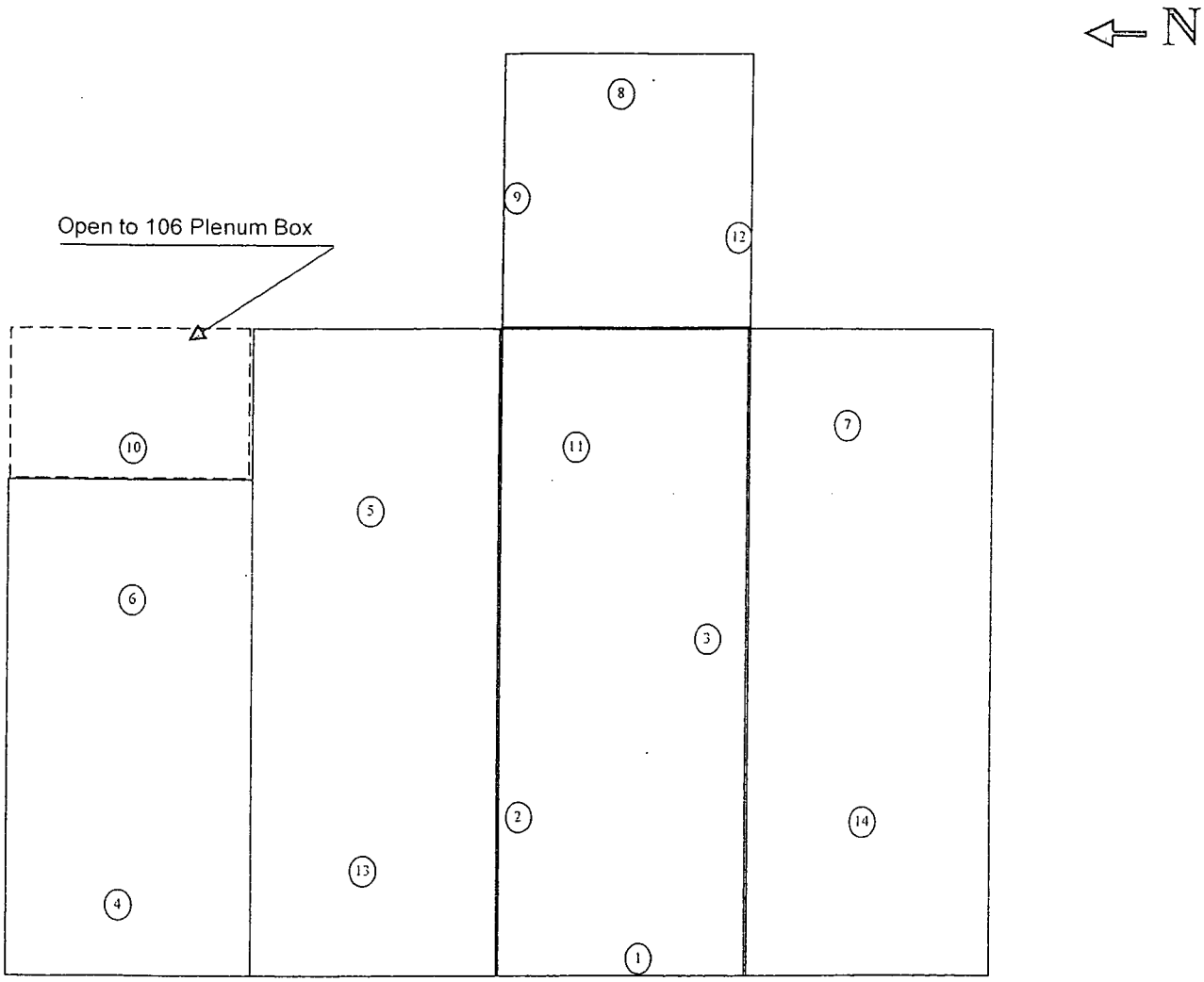
#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Floor	<18	N/A	N/A	288	655K	N/A
2	Floor	<18	N/A	N/A	392	915K	N/A
3	Floor	<18	N/A	N/A	332	250K	N/A
4	Ceiling	36	N/A	N/A	676	85K	N/A
5	North Wall	<18	N/A	N/A	408	45K	N/A
6	Ceiling	<18	N/A	N/A	632	115K	N/A
7	South Wall	<18	N/A	N/A	324	60K	N/A
8	East Wall	83	N/A	N/A	688	400K	N/A
9	North Wall	<18	N/A	N/A	280	70K	N/A
10	West Wall above Ceiling Opening	<18	N/A	N/A	648	35K	N/A
11	Floor	148	N/A	N/A	440	965K	N/A
12	South Wall	<18	N/A	N/A	732	695K	N/A
13	North Wall	<18	N/A	N/A	436	430K	N/A
14	South Wall	36	N/A	N/A	638	255K	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 1/14/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

COPY



Room 6 Air Tunnel

325

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	143866	Serial #	N/A	Serial #	N/A
Cal Due	2/16/05	Cal Due	N/A	Cal Due	
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	cpmα
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	22.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	12 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Elec[redacted]
Model	2929	Model	BC-4	Model	DP-[redacted]
Serial #	143866	Serial #	N/A	Serial #	N/[redacted]
Cal Due	2/16/05	Cal Due	N/A	Cal Due	1/0/00
Bkg	70.6 cpmβ	Bkg	N/A cpmβ	Bkg	cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	167 dpmβ	MDA	200 dpmβ	MDA	12 dpmβ

Survey Tracking #	883-04-S1167
Survey Type:	Contamination
Building:	883
Location:	B883 West Air Tunnel and 108 box
Purpose:	Post decon and painting
RWP #:	04-880-0002
Date:	12/17/~~05~~ 04 [illegible] 1/20/05
Time:	1030
RCT:	NA / NA / NA
	Print name / Signature / Emp. #

PRN/REN # : N/A

Comments: Nuclides of concern are from Depleted Uranium only. Beta dpm CF Applied. Survey performed post decon and painting swipes only.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Floor	<18	N/A	N/A	<167	N/A	N/A
2	Wall	<18	N/A	N/A	<167	N/A	N/A
3	Wall	<18	N/A	N/A	<167	N/A	N/A
4	Ceiling	<18	N/A	N/A	<167	N/A	N/A
5	Wall	<18	N/A	N/A	<167	N/A	N/A
6	Floor	<18	N/A	N/A	<167	N/A	N/A
7	Wall	<18	N/A	N/A	<167	N/A	N/A
8	Wall	<18	N/A	N/A	<167	N/A	N/A
9	Ceiling	29	N/A	N/A	250	N/A	N/A
10	Wall	<18	N/A	N/A	<167	N/A	N/A
11	Floor	<18	N/A	N/A	<167	N/A	N/A
12	Wall	42	N/A	N/A	500	N/A	N/A
13	Wall	<18	N/A	N/A	<167	N/A	N/A
14	Ceiling	<18	N/A	N/A	<167	N/A	N/A
15	Wall	<18	N/A	N/A	<167	N/A	N/A
16	Floor	<18	N/A	N/A	<167	N/A	N/A
17	Wall	<18	N/A	N/A	<167	N/A	N/A
18	Wall	<18	N/A	N/A	<167	N/A	N/A
19	Ceiling	30	N/A	N/A	320	N/A	N/A
20	Wall	[redacted]					

Date Reviewed: 12/22/04 **RS Superv**[redacted]

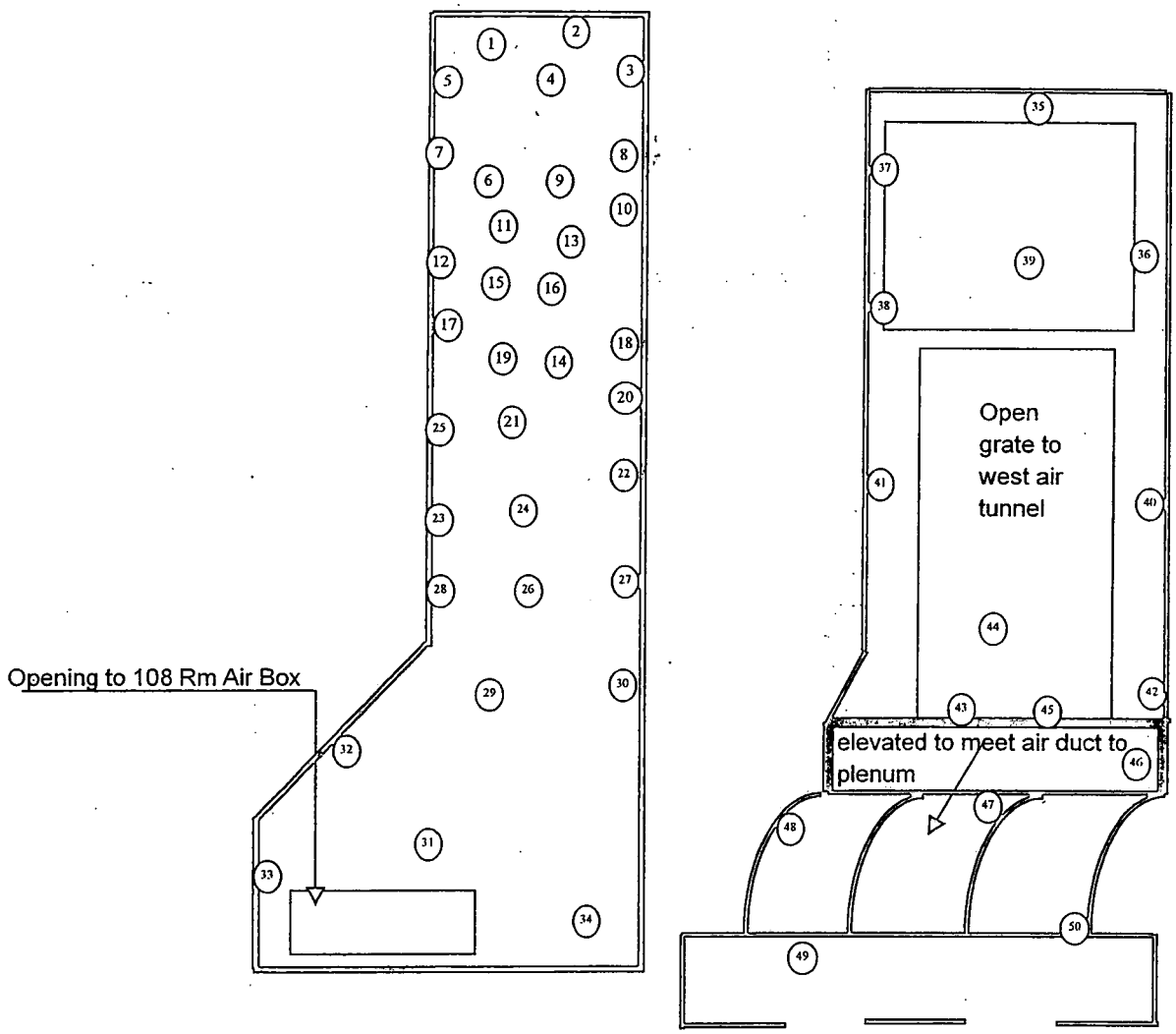
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Floor	<18	N/A	N/A	<167	N/A	N/A
22	Wall	<18	N/A	N/A	<167	N/A	N/A
23	Wall	<18	N/A	N/A	<167	N/A	N/A
24	Ceiling	32	N/A	N/A	300	N/A	N/A
25	Wall	<18	N/A	N/A	<167	N/A	N/A
26	Floor	<18	N/A	N/A	<167	N/A	N/A
27	Wall	<18	N/A	N/A	<167	N/A	N/A
28	Wall	<18	N/A	N/A	<167	N/A	N/A
29	Ceiling	<18	N/A	N/A	<167	N/A	N/A
30	Wall	<18	N/A	N/A	<167	N/A	N/A
31	Floor	<18	N/A	N/A	<167	N/A	N/A
32	Wall	<18	N/A	N/A	<167	N/A	N/A
33	Wall	<18	N/A	N/A	250	N/A	N/A
34	Ceiling	<18	N/A	N/A	<167	N/A	N/A
35	Wall	<18	N/A	N/A	<167	N/A	N/A
36	Floor	<18	N/A	N/A	<167	N/A	N/A
37	Wall	<18	N/A	N/A	<167	N/A	N/A
38	Wall	<18	N/A	N/A	<167	N/A	N/A
39	Ceiling	69	N/A	N/A	545	N/A	N/A
40	Wall	45	N/A	N/A	500	N/A	N/A
41	Floor	60	N/A	N/A	320	N/A	N/A
42	Wall	<18	N/A	N/A	<167	N/A	N/A
43	Wall	<18	N/A	N/A	<167	N/A	N/A
44	Ceiling	<18	N/A	N/A	<167	N/A	N/A
45	Wall	<18	N/A	N/A	<167	N/A	N/A
46	Floor	<18	N/A	N/A	<167	N/A	N/A
47	Wall	<18	N/A	N/A	<167	N/A	N/A
48	Wall	<18	N/A	N/A	<167	N/A	N/A
49	Ceiling	<18	N/A	N/A	360	N/A	N/A
50	Wall	<18	N/A	N/A	<167	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points



B SIDE 883 Air Tunnel
and 108 Air Box

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	SAC-4	Model	N/A
Serial #	143866	Serial #		Serial #	N/A
Cal Due	2/16/05	Cal Due		Cal Due	N/A
Bkg	0.2 cpmα	Bkg	cpmα	Bkg	N/A
Efficiency	34.80 %	Efficiency	33.00 %	Efficiency	N/A
MDA	18 dpmα	MDA	dpmα	MDA	N/A
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	BC-4	Model	N/A
Serial #	143866	Serial #		Serial #	N/A
Cal Due	2/16/05	Cal Due		Cal Due	N/A
Bkg	73.4 cpmβ	Bkg	cpmβ	Bkg	N/A
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	N/A
MDA	170 dpmβ	MDA	dpmβ	MDA	N/A

Survey Tracking # 883-04-S1162

Survey Type: Contamination and Radiation

Building: 883

Location: West Air Tunnel (POST) Fix

Purpose: BE Samples (14 Samples)

RWP #: N/A

COPY

Date: 12/17/04 Time: 06:00

[redacted]

RCT: NA / NA / N/A

Print name Signature Emp. #

PRN/REN # : 040908-ASD-001

Comments: Nuclide of concern are Depleted Uranium with a correction factor used (14 each) "Be" Swipe samples. drawing

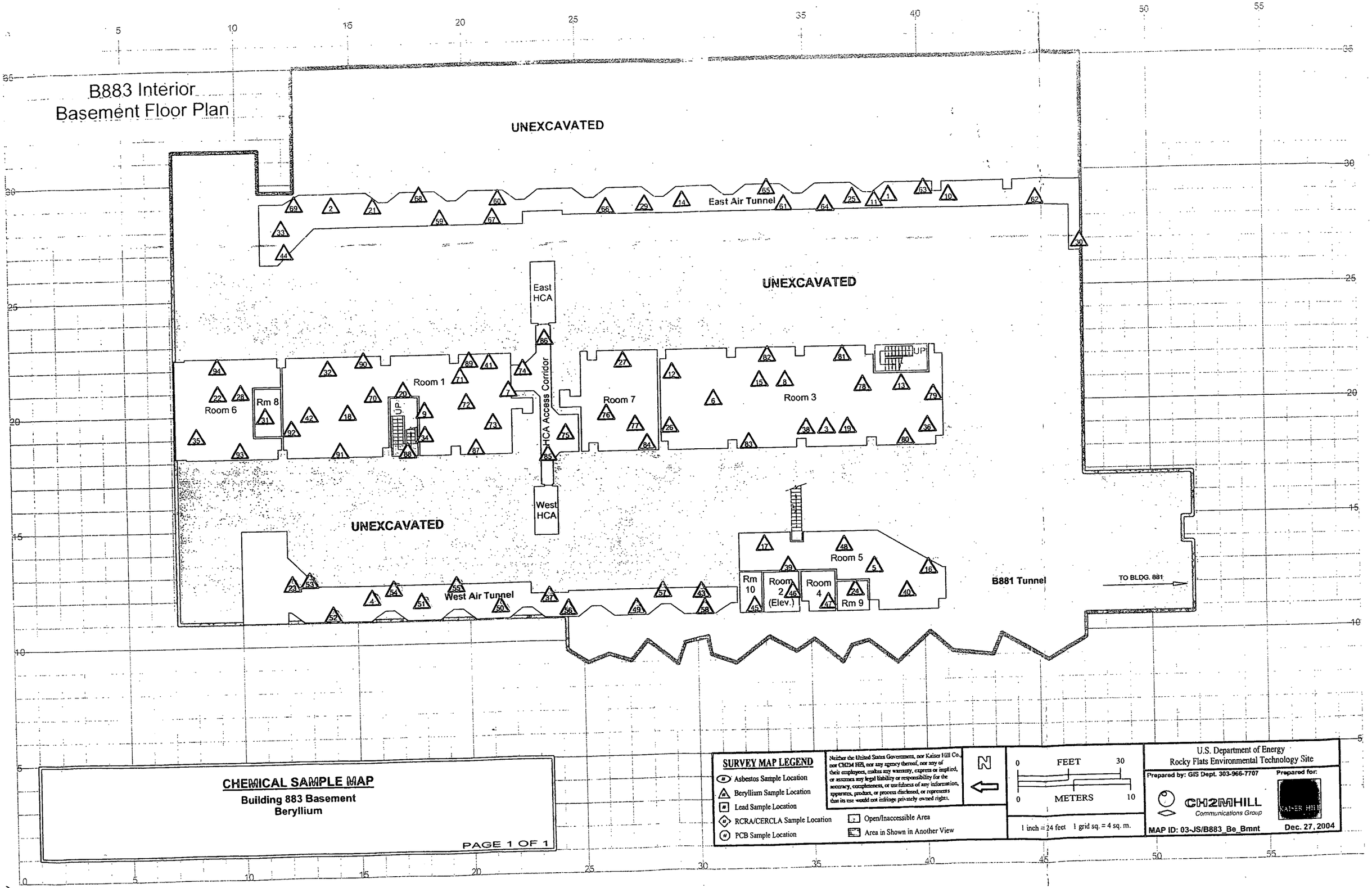
#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2	#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2
1	883-12162004-313-004	<18	<170	20	N/A	N/A	N/A
2	883-12162004-313-023	<18	<170	21	N/A	N/A	N/A
3	883-12162004-313-037	<18	<170	22	N/A	N/A	N/A
4	883-12162004-313-043	<18	<170	23	N/A	N/A	N/A
5	883-12162004-313-049	<18	<170	24	N/A	N/A	N/A
6	883-12162004-313-050	<18	<170	25	N/A	N/A	N/A
7	883-12162004-313-051	<18	<170	26	N/A	N/A	N/A
8	883-12162004-313-052	<18	<170	27	N/A	N/A	N/A
9	883-12162004-313-053	<18	<170	28	N/A	N/A	N/A
10	883-12162004-313-054	<18	<170	29	N/A	N/A	N/A
11	883-12162004-313-055	<18	<170	30	N/A	N/A	N/A
12	883-12162004-313-056	<18	<170	31	N/A	N/A	N/A
13	883-12162004-313-057	<18	<170	32	N/A	N/A	N/A
14	883-12162004-313-058	<18	<170	33	N/A	N/A	N/A
15	Inner Package, External	<18	<170	34	N/A	N/A	N/A
16	Outer Package, External	<18	<170	35	N/A	N/A	N/A
17	N/A	N/A	N/A	36	N/A	N/A	N/A
18	N/A	N/A	N/A	37	N/A	N/A	N/A
19	N/A	N/A	N/A	38	N/A	N/A	N/A

Date Reviewed: 12/17/04 **RS Supe** [redacted]

Print Name Signature Emp. #

COPY

329


B883 Interior
Basement Floor Plan
UNEXCAVATED
East Air Tunnel
UNEXCAVATED
East HCA
HCA Access Corridor
West HCA
UNEXCAVATED
Room 6
Rm 8
Room 1
Room 7
Room 3
UP
Room 5
Rm 10
Room 2 (Elev.)
Room 4
Rm 9
West Air Tunnel
B881 Tunnel
TO BLDG. 881
SURVEY MAP LEGEND
Asbestos Sample Location
Beryllium Sample Location
Lead Sample Location
RCRA/CERCLA Sample Location
PCB Sample Location
Open/Inaccessible Area
Area in Shown in Another View
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N
0 FEET 30
0 METERS 10
1 inch = 24 feet 1 grid sq. = 4 sq. m.
U.S. Department of Energy
Rocky Flats Environmental Technology Site
Prepared by: GIS Dept. 303-966-7707
Prepared for:
CH2MHILL
Communications Group
MAP ID: 03-JS/B883_Be_Bmnt
Dec. 27, 2004
CHEMICAL SAMPLE MAP
Building 883 Basement
Beryllium
PAGE 1 OF 1

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COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA					
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	SAC-4	Model	N/A
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	0.2 cpmα	Bkg	N/A cpmα	Bkg	N/A
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	N/A
MDA	18 dpmα	MDA	20 dpmα	MDA	N/A
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	N/A
Model	2929	Model	BC-4	Model	N/A
Serial #	176102	Serial #	N/A	Serial #	N/A
Cal Due	3/14/05	Cal Due	N/A	Cal Due	N/A
Bkg	79.5 cpmβ	Bkg	N/A cpmβ	Bkg	N/A
Efficiency	25.00 %	Efficiency	25.00 %	Efficiency	N/A
MDA	177 dpmβ	MDA	200 dpmβ	MDA	N/A

Survey Tracking # 883-04-S1222
Survey Type: Contamination and Radiation
Building: 883
Location: East Air Tunnel, Post Fixation PDS
Purpose: BE Samples (22 Samples)

RWP #: N/A

Date: 1/3/05 Time: 1015

[redacted]

RCT: N/A / N/A / N/A
Print name / Signature / Emp. #

PRN/REN # : 040908-ASD-001
Comments: Nuclide of concern are Depleted Uranium with a correction factor used (22 each) "Be" Swipe samples. drawing

COPY

#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2	#	Sample Number	ALPHA Swipe dpm/100cm2	BETA Swipe dpm/100cm2
1	883-12302004-313-001	<18	340	20	~~883-12302004-313-103~~ 04 Jan 05	<18	312
2	883-12302004-313-002	<18	316	21	883-12302004-313-104 (68)	<18	332
3	883-12302004-313-010	<18	368	22	883-12302004-313-105 (69)	<18	320
4	883-12302004-313-011	<18	368	23	Inner Package, External	<18	<177
5	883-12302004-313-021	<18	392	24	Outer Package, External	<18	<177
6	883-12302004-313-025	<18	348	25	N/A	N/A	N/A
7	883-12302004-313-029	<18	336	26	N/A	N/A	N/A
8	883-12302004-313-030	<18	312	27	N/A	N/A	N/A
9	883-12302004-313-033	<18	364	28	N/A	N/A	N/A
10	883-12302004-313-044	<18	352	29	N/A	N/A	N/A
11	883-12302004-313-095 (59)	<18	360	30	N/A	N/A	N/A
12	883-12302004-313-096 (60)	<18	376	31	N/A	N/A	N/A
13	883-12302004-313-097 (61)	<18	416	32	N/A	N/A	N/A
14	883-12302004-313-098 (62)	<18	312	33	N/A	N/A	N/A
15	883-12302004-313-099 (63)	<18	316	34	N/A	N/A	N/A
16	883-12302004-313-100 (64)	<18	292	35	N/A	N/A	N/A
17	883-12302004-313-101 (65)	<18	384	36	N/A	N/A	N/A
18	883-12302004-313-102 (66)	<18	316	37	N/A	N/A	N/A
19	883-12302004-313-103 (67)	<18	368	38	N/A	N/A	N/A
Add 20	883-12302004-313-014	<18	98	adjd			

Date Reviewed: 1/3/05 RS Supervision: [redacted]

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Rocky Flats Environmental Technology Site Beryllium Wipe Sample Log

Sample Prefix:			RIN #:	Sampler (pr[redacted]
883	12302004	313	05D0350	Employe[redacted]
Bldg. -	Date -	IH#	Post-Fixative PDS	Signat[redacted]

Area: East Exhaust Air Tunnel (A-Side)

Sample Sequence #	Room	Point on survey map	Description	Notes, Comments, Deviations
001	East Air Tunnel	1	Floor, See Map	PDS Random
002	East Air Tunnel	2	Floor, See Map	PDS Random
010	East Air Tunnel	10	Floor, See Map	PDS Random
011	East Air Tunnel	11	Floor, See Map	PDS Random
014	East Air Tunnel	14	Floor, See Map	PDS Random
021	East Air Tunnel	21	Floor, See Map	PDS Random
025	East Air Tunnel	25	Floor, See Map	PDS Random
029	East Air Tunnel	29	Floor, See Map	PDS Random
030	East Air Tunnel	30	Floor, See Map	PDS Random
033	East Air Tunnel	33	Floor, See Map	PDS Random
044	East Air Tunnel	44	Floor, See Map	PDS Random
095	East Air Tunnel	59	Floor, See Map	Biased
096	East Air Tunnel	60	Floor, See Map	Biased
097	East Air Tunnel	61	Floor, See Map	Biased
098	East Air Tunnel	62	Wall, See Map	Biased
099	East Air Tunnel	63	Wall, See Map	Biased
100	East Air Tunnel	64	Wall, See Map	Biased
101	East Air Tunnel	65	Wall, See Map	Biased

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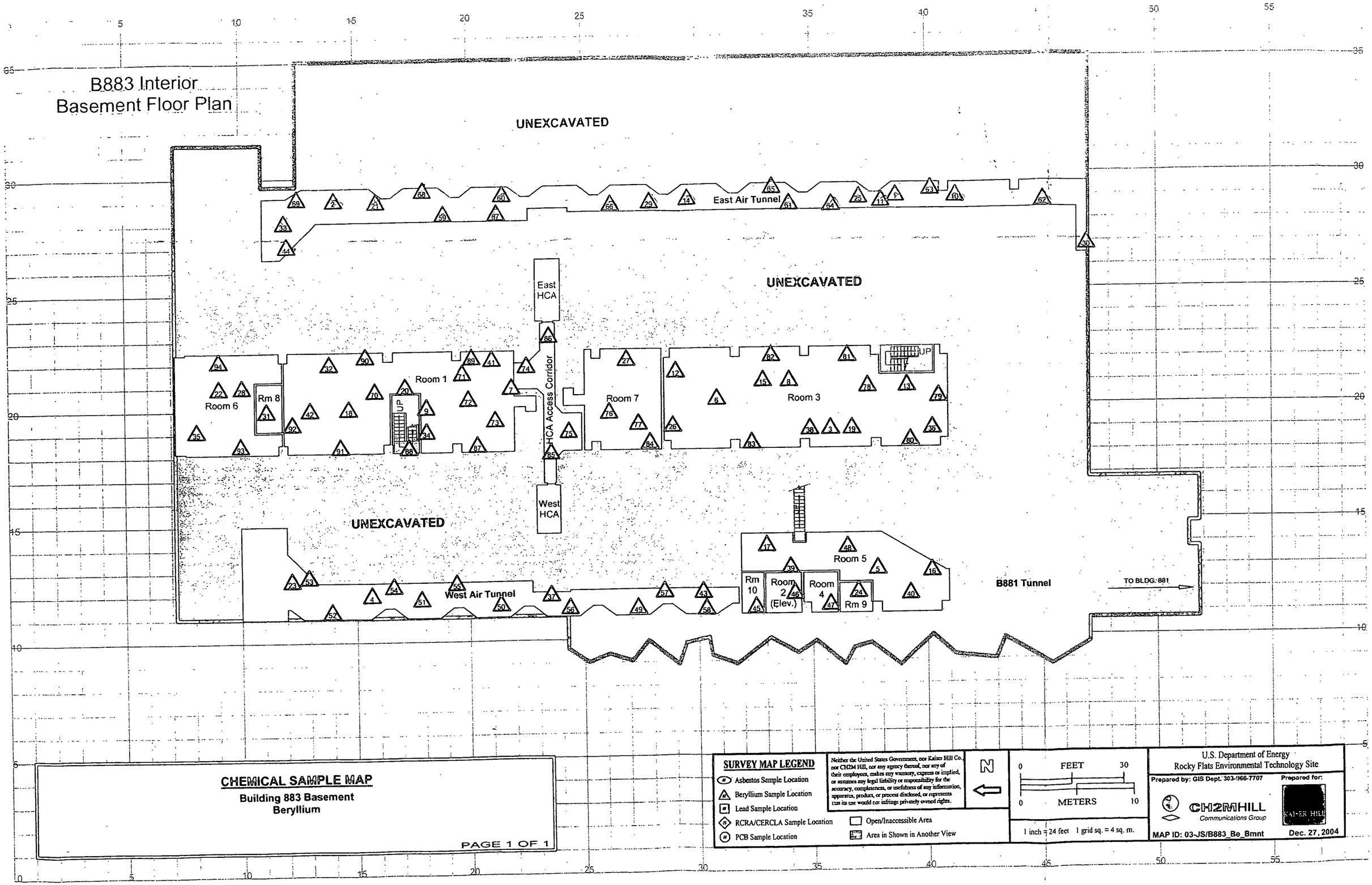
Rocky Flats Environmental Technology Site Beryllium Wipe Sample Log

Sample Prefix:			RIN #:	Sampler (p[redacted] map)
883	12302004	313	05D0350	Employ[redacted]
Bldg. -	Date -	IH#	Post-Fixative PDS	Signa[redacted]
		Area:	East Exhaust Air Tunnel (A-Side)	

Sample Sequence #	Room	Point on survey map	Description	Notes, Comments; Deviations
102	East Air Tunnel	66	Wall, See Map	Biased
103	East Air Tunnel	67	Wall, See Map	Biased
104	East Air Tunnel	68	Wall, See Map	Biased
105	East Air Tunnel	69	Wall, See Map	Biased
854B	NA	NA	Blank	
855B	NA	NA	Blank	


B883 Interior
Basement Floor Plan
UNEXCAVATED
East Air Tunnel
UNEXCAVATED
East HCA
Room 1
Room 6
Rm 8
HCA Access Corridor
Room 7
Room 3
UP
West HCA
UNEXCAVATED
Room 5
Rm 10
Room 2 (Elev.)
Room 4
Rm 9
West Air Tunnel
B881 Tunnel
TO BLDG. 881
CHEMICAL SAMPLE MAP
Building 883 Basement
Beryllium
PAGE 1 OF 1
SURVEY MAP LEGEND
Asbestos Sample Location
Beryllium Sample Location
Lead Sample Location
RCRA/CERCLA Sample Location
PCB Sample Location
Open/Inaccessible Area
Area in Shown in Another View
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N
0 FEET 30
0 METERS 10
1 inch = 24 feet 1 grid sq. = 4 sq. m.
U.S. Department of Energy
Rocky Flats Environmental Technology Site
Prepared by: GIS Dept. 303-966-7707
Prepared for:
CH2MHILL
Communications Group
MAP ID: 03-JS/B883_Be_Bmnt
Dec. 27, 2004

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ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1134
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	0.6 cpmα	Bkg	N/A cpmα	Bkg	5.0 cpmα
Efficiency	35.80 %	Efficiency	33.00 %	Efficiency	22.30 %
MDA	18 dpmα	MDA	20 dpmα	MDA	59 dpmα
Mfg.	Ludlum	Mfg.		Mfg.	NE Electra
Model	2929	Model		Model	DP-6
Serial #	176102	Serial #	N/A	Serial #	1134
Cal Due	3/14/05	Cal Due	N/A	Cal Due	4/20/05
Bkg	74.7 cpmβ	Bkg	N/A cpmβ	Bkg	506.0 cpmβ
Efficiency	25.00 %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	488 dpmβ

Survey Tracking # 883-04-S 1312
Survey Type: Contamination
Building: 883
Location: A-SIDE- Air Tunnel
Purpose: POST FIXATIVE

RWP #: 05-880-0001

Date: 1/21/05 Time: 16:00

RC[redacted]

RCT: NA / NA / NA
Print name Signature Emp. #

PRN/REN # : N/A
Comments: Nuclides of concern is Depleted Uranium conversion factor adjusted above. Completed the direct survey for the A-side air tunnel.

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	South Floor	N/A	240	N/A	N/A	24530	N/A
2	Southwest Wall	N/A	120	N/A	N/A	9110	N/A
3	Southwest Floor	N/A	48	N/A	N/A	8525	N/A
4	Southeast Wall	N/A	90	N/A	N/A	17480	N/A
5	Southwest Floor	N/A	720	N/A	N/A	400,000	N/A
6	Southwest Floor	N/A	312	N/A	N/A	81500	N/A
7	Southwest Floor	N/A	222	N/A	N/A	24855	N/A
8	Southwest Wall	N/A	300	N/A	N/A	11980	N/A
9	Southcenter Floor	N/A	342	N/A	N/A	415,000	N/A
10	Southeast Wall	N/A	270	N/A	N/A	11715	N/A
11	Southwest Floor	N/A	990	N/A	N/A	145,800	N/A
12	Southwest Floor	N/A	402	N/A	N/A	99500	N/A
13	Southwest Wall	N/A	270	N/A	N/A	109,500	N/A
14	Southeast Floor	N/A	1926	N/A	N/A	151,000	N/A
15	Southwest Wall	N/A	246	N/A	N/A	106,500	N/A
16	Southwest Floor	N/A	102	N/A	N/A	106,500	N/A
17	Southeast Wall	N/A	606	N/A	N/A	165,000	N/A
18	Southeast Floor	N/A	126	N/A	N/A	67,500	N/A
19	Southeast Floor	N/A	168	N/A	N/A	73,000	N/A
20	Southeast Wall	N/A	270	N/A	N/A	925,000	N/A

Date Reviewed: 1/22/05 **RS Supervision:** [redacted]

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

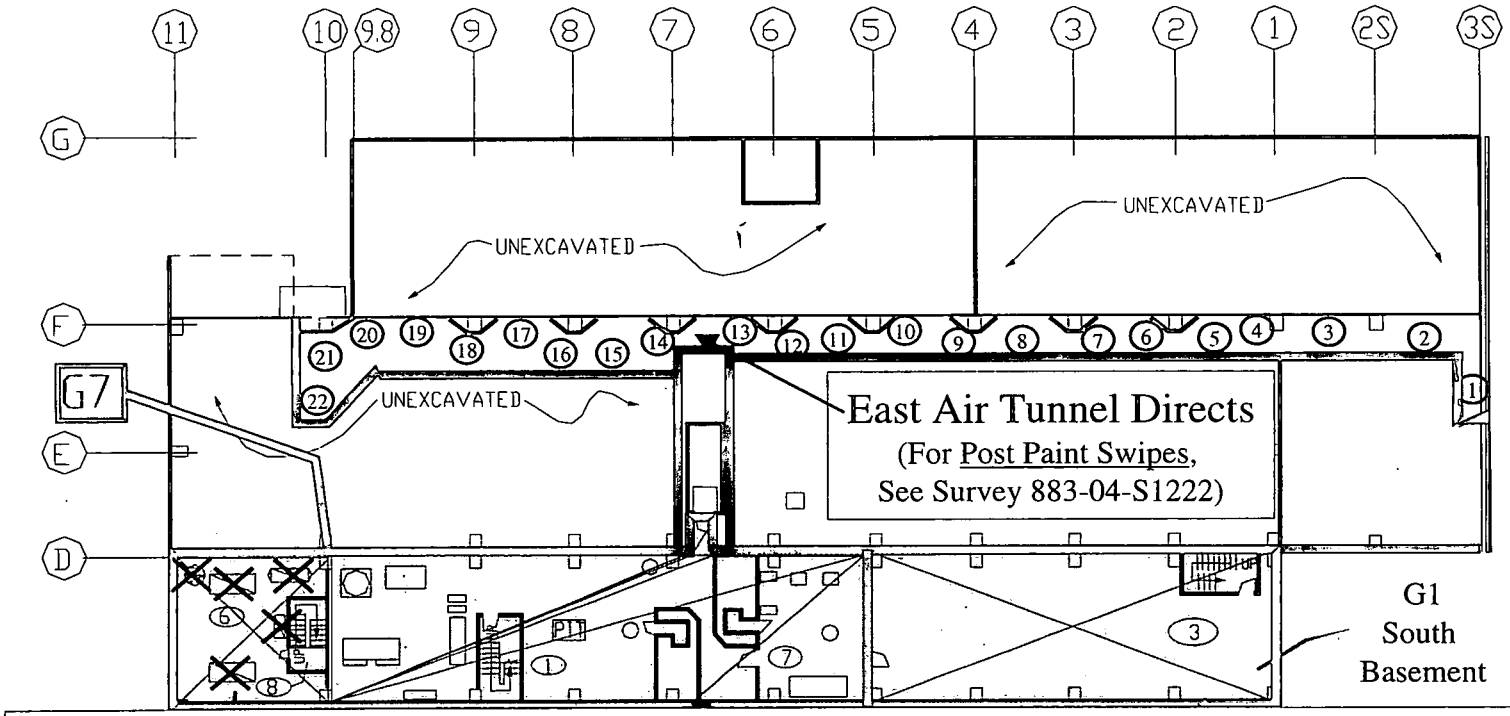
SURVEY RESULTS

		ALPHA			BETA		
	LOCATION	Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
21	Underneath Plenum	N/A	198	N/A	N/A	135,000	N/A
22	Southwest Corner Under Plenum	N/A	606	N/A	N/A	660,000	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

883-04-51312

336

Bldg. 883 East Air Tunnel Direct Characterization



Direct readings were taken in A-Side tunnel locations shown, approximately the same as previous post-paint Beryllium swipes on Survey 883-04-S1222

Survey 883-04-S1312

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ATTACHMENT B-8

Office Area LLW Surveys

PRE-FIXATIVE LLW SURVEYS

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	N/A	Serial #	N/A	Serial #	1235
Cal Due	N/A	Cal Due	N/A	Cal Due	3/16/05
Bkg	N/A cpmα	Bkg	N/A cpmα	Bkg	8.0 cpmα
Efficiency	N/A %	Efficiency	33.00 %	Efficiency	21.80 %
MDA	18 dpmα	MDA	20 dpmα	MDA	73 dpmα
Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	N/A	Serial #	843	Serial #	1235
Cal Due	N/A	Cal Due	10/4/05	Cal Due	3/16/05
Bkg	N/A cpmβ	Bkg	39.6 cpmβ	Bkg	835.0 cpmβ
Efficiency	N/A %	Efficiency	14.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	258 dpmβ	MDA	745 dpmβ

Survey Tracking # N/A

Survey Type: Contamination

Building: 883

Location: First floor front offices

Purpose: Characterization (PRE) Fix

RWP #: N/A

D[redacted]

R[redacted]

RCT: N/A / N/A / N/A

Print name / Signature / Emp. #

PRN/REN #: N/A

Comments: Nuclide of concern is Depleted Uranium. Survey performed to document contamination levels found on 883 first floor offices during final survey. Beta efficiencies listed reflect correction for Depleted Uranium, calibrated efficiencies were for BC-4 #843 - 25.0% and for Electra #1235 -30.0%.

COPY

SURVEY RESULTS

#	LOCATION	ALPHA Swipe dpm/100cm2	ALPHA Direct dpm/100cm2	ALPHA Wipe dpm/wipe	BETA Swipe dpm/100cm2	BETA Direct dpm/100cm2	BETA Wipe dpm/wipe
1	Floor	N/A	N/A	N/A	<258	**16000**	<745
2	Floor	N/A	N/A	N/A	<258	**9000**	<745
3	Floor	N/A	N/A	N/A	<258	**15000**	<745
4	Floor	N/A	N/A	N/A	<258	**15000**	<745
5	Floor	N/A	N/A	N/A	<258	**25000**	<745
6	Floor	N/A	N/A	N/A	<258	**12000**	<745
7	Floor	N/A	N/A	N/A	<258	**40000**	<745
8	Floor	N/A	N/A	N/A	<258	**12000**	<745
9	Floor	N/A	N/A	N/A	<258	**10000**	<745
10	Floor	N/A	N/A	N/A	<258	**8000**	<745
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	[redacted]					

Date Reviewed: 12-13-04 **RS Supervision:** [redacted]

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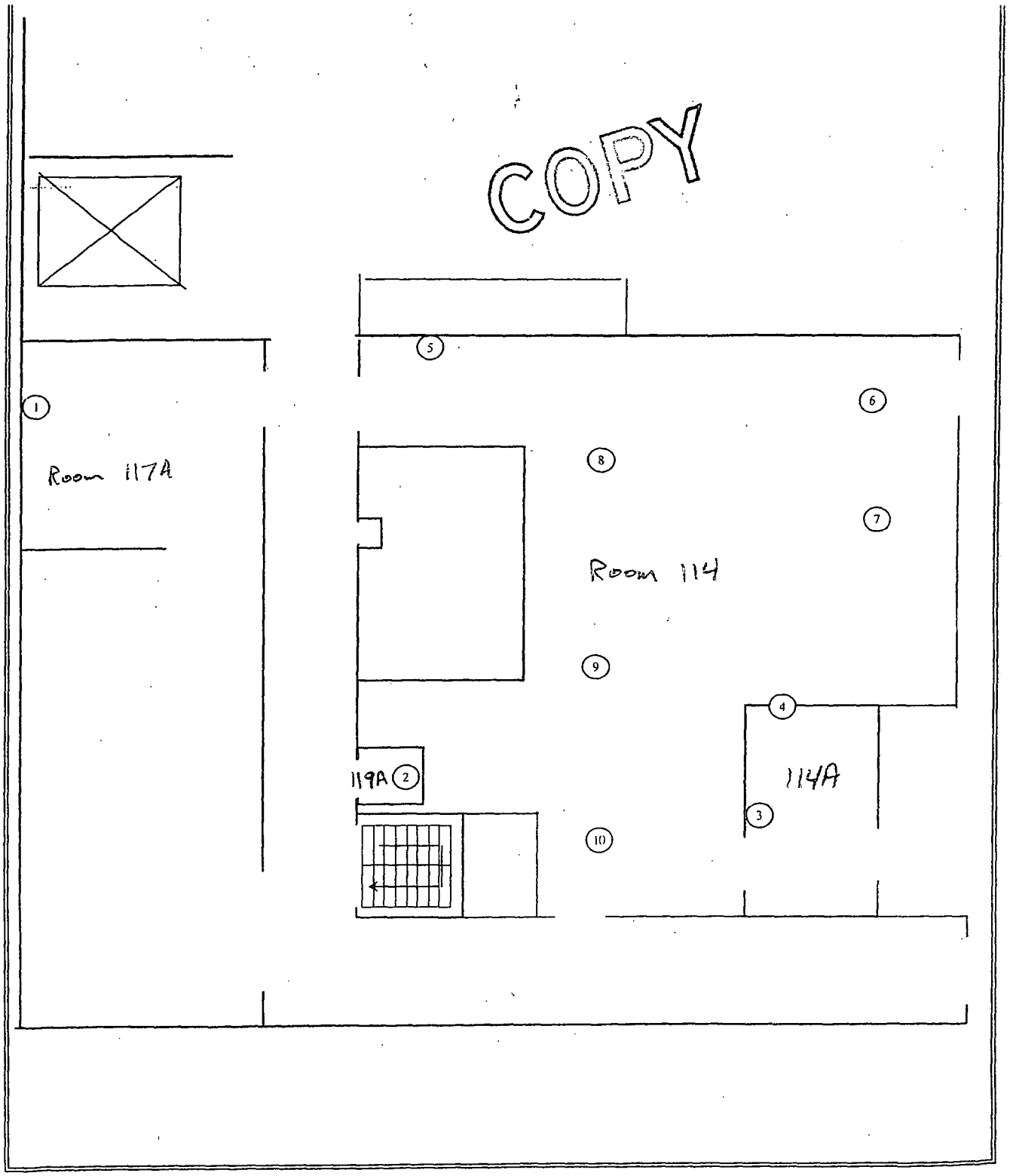
ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE



ATTACHMENT B-9

PDS Radiological Data Summaries and Survey Maps

Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Rocky Flats Environmental Technology Site
Final Radiological Survey Summary Results

Total Surface Activity Measurements

Nbr Random Measurements Required: 120
Nbr Random Measurements Performed: 117
Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 0
Nbr QC Required: 6
Nbr QC Performed: 7

Beta

Maximum:	1,455.9 dpm/100cm²
Minimum:	-466.9 dpm/100cm²
Mean:	194.6 dpm/100cm²
Standard Deviation:	329.9
QC Maximum:	1,294.8 dpm/100cm²
QC Minimum:	-82.4 dpm/100cm²
QC Mean:	505.2 dpm/100cm²
Uranium DCGL$_W$:	5,000.0 dpm/100cm²
Uranium DCGL$_{EMC}$:	15,000.0 dpm/100cm²

Removable Surface Activity Measurements

Nbr Random Measurements Required: 120
Nbr Random Measurements Performed: 117
Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 0

Beta

Maximum:	189.3 dpm/100cm²
Minimum:	-153.6 dpm/100cm²
Mean:	-25.2 dpm/100cm²
Standard Deviation:	42.9
Uranium DCGL$_W$:	1,000.0

Media Sample Results

Nbr Random Required: 0
Nbr Random Collected: 0
Nbr Biased Required: 0
Nbr Biased Collected: 0

Conclusion - A comparison of the random, biased and QC measurement results against the PDSP Table 7-1 Surface Contamination Guideline limits was conducted; the comparison demonstrates that this survey unit passes the criterion specified in the PDSP.

Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Instrument Data Sheet

Inst/RCT Number	RCT ID	Analysis Date	Instr Model	Instru S/N	Probe Type	Calibration Due Dt	Instru Efficiency Alpha	Instru Efficiency Beta	A-Priori MDA (dpm/100cm²) Alpha	A-Priori MDA (dpm/100cm²) Beta	Survey Type
1	700831	10/12/04	Electra	3104	DP-6	03/17/05	NA	0.220	NA	745.0	S
2	711447	10/12/04	Electra	2344	DP-6	04/11/05	NA	0.220	NA	745.0	S
3	700831	10/12/04	Electra	3250	DP-6	02/04/05	NA	0.220	NA	745.0	S
4	700831	10/13/04	Electra	3104	DP-6	03/17/05	NA	0.220	NA	745.0	T/S
5	711447	10/13/04	Electra	1417	DP-6	03/23/05	NA	0.220	NA	745.0	T/S
6	511390	10/13/04	Electra	2344	DP-6	04/11/05	NA	0.220	NA	745.0	T/S
7	511390	10/13/04	Ludlum 292	99042	NA	10/26/04	NA	0.250	NA	205.0	R
8	711447	10/11/04	Electra	1261	DP-8	02/26/05	NA	0.160	NA	745.0	S
9	700831	10/11/04	Electra	3104	DP-6	03/17/05	NA	0.220	NA	745.0	S
10	700831	10/11/04	Electra	1417	DP-6	03/23/05	NA	0.220	NA	745.0	S
11	711447	10/11/04	Electra	3250	DP-6	02/14/05	NA	0.220	NA	745.0	S
12	700831	10/11/04	Electra	2404	DP-8	02/03/05	NA	0.160	NA	745.0	S
13	700831	10/15/04	Electra	1417	DP-6	03/23/05	NA	0.220	NA	745.0	T/S
14	711447	10/15/04	Electra	662	DP-6	03/30/05	NA	0.220	NA	745.0	T/S
15	700831	10/15/04	Electra	3104	DP-6	03/17/05	NA	0.220	NA	745.0	S
16	711447	10/18/04	Electra	662	DP-6	03/30/05	NA	0.220	NA	745.0	S
17	700831	10/18/04	Electra	1366	DP-6	04/05/05	NA	0.220	NA	745.0	T/S
18	700831	10/18/04	BC-4	911	NA	10/29/04	NA	0.140	NA	258.0	R
19	700831	10/18/04	Ludlum 292	99042	NA	10/26/04	NA	0.250	NA	205.0	R
20	511390	10/19/04	Electra	1417	DP-6	03/25/05	NA	0.220	NA	745.0	S
21	700831	10/19/04	Electra	1366	DP-6	04/05/05	NA	0.220	NA	745.0	S
22	700831	10/20/04	Electra	1417	DP-6	03/23/05	NA	0.220	NA	745.0	T
23	511390	10/20/04	Electra	1417	DP-6	03/23/05	NA	0.220	NA	745.0	Q
24	711447	10/20/04	Electra	1665	DP-6	04/07/05	NA	0.220	NA	745.0	Q
25	511390	10/20/04	Electra	1366	DP-6	04/05/05	NA	0.220	NA	745.0	Q/S
26	700831	10/20/04	Ludlum 292	99042	NA	10/26/04	NA	0.250	NA	205.0	R

Survey Types: T = Total Surface Activity, Q = TSA QC, S = Scan, R = Removable Surface Activity, I = Investigation

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Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N007	18	N/A	-103.6	
883005PRP-N008	19	N/A	-41.2	
883005PRP-N009	26	N/A	-46.8	
883005PRP-N010	26	N/A	-46.8	
883005PRP-N011	26	N/A	-10.8	
883005PRP-N012	26	N/A	-18.8	
883005PRP-N013	26	N/A	-10.8	
883005PRP-N020	19	N/A	-113.2	
883005PRP-N021	19	N/A	-93.2	
883005PRP-N022	19	N/A	-5.2	
883005PRP-N023	26	N/A	-38.8	
883005PRP-N024	26	N/A	-42.8	
883005PRP-N025	26	N/A	-22.8	
883005PRP-N026	26	N/A	-46.8	
883005PRP-N027	26	N/A	13.2	
883005PRP-N028	26	N/A	-2.8	
883005PRP-N029	26	N/A	13.2	
883005PRP-N030	18	N/A	-75.0	
883005PRP-N031	18	N/A	-17.9	
883005PRP-N032	26	N/A	21.2	
883005PRP-N033	19	N/A	2.8	
883005PRP-N034	19	N/A	-69.2	
883005PRP-N035	26	N/A	-14.8	
883005PRP-N036	26	N/A	-26.8	
883005PRP-N037	26	N/A	9.2	
883005PRP-N039	19	N/A	66.8	
883005PRP-N040	26	N/A	9.2	
883005PRP-N041	26	N/A	-34.8	
883005PRP-N045	19	N/A	-9.2	

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Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N046	19	N/A	18.8	
883005PRP-N047	7	N/A	-42.8	
883005PRP-N048	19	N/A	-13.2	
883005PRP-N052	18	N/A	3.6	
883005PRP-N054	7	N/A	-18.8	
883005PRP-N055	7	N/A	-66.8	
883005PRP-N057	26	N/A	-38.8	
883005PRP-N058	26	N/A	1.2	
883005PRP-N059	7	N/A	5.2	
883005PRP-N060	7	N/A	-70.8	
883005PRP-N061	7	N/A	53.2	
883005PRP-N062	7	N/A	-42.8	
883005PRP-N063	7	N/A	-38.8	
883005PRP-N064	7	N/A	-14.8	
883005PRP-N065	7	N/A	-90.8	
883005PRP-N066	7	N/A	-30.8	
883005PRP-N067	7	N/A	5.2	
883005PRP-N068	26	N/A	17.2	
883005PRP-N069	26	N/A	13.2	
883005PRP-N070	26	N/A	-2.8	
883005PRP-N072	7	N/A	-86.8	
883005PRP-N073	7	N/A	-70.8	
883005PRP-N074	7	N/A	-6.8	
883005PRP-N075	7	N/A	-22.8	
883005PRP-N076	7	N/A	-26.8	
883005PRP-N077	7	N/A	-2.8	
883005PRP-N078	7	N/A	-86.8	
883005PRP-N079	7	N/A	13.2	
883005PRP-N080	7	N/A	-42.8	

Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N081	26	N/A	-58.8	
883005PRP-N082	26	N/A	-66.8	
883005PRP-N083	26	N/A	-22.8	
883005PRP-N085	7	N/A	-30.8	
883005PRP-N086	7	N/A	-90.8	
883005PRP-N087	7	N/A	-70.8	
883005PRP-N088	7	N/A	-6.8	
883005PRP-N089	7	N/A	-38.8	
883005PRP-N090	7	N/A	-26.8	
883005PRP-N091	7	N/A	-70.8	
883005PRP-N092	7	N/A	-22.8	
883005PRP-N093	7	N/A	-6.8	
883005PRP-N094	26	N/A	-42.8	
883005PRP-N095	26	N/A	-26.8	
883005PRP-N096	26	N/A	-18.8	
883005PRP-N097	26	N/A	-54.8	
883005PRP-N098	18	N/A	-67.9	
883005PRP-N099	19	N/A	-17.2	
883005PRP-N100	19	N/A	-109.2	
883005PRP-N101	19	N/A	22.8	
883005PRP-N102	18	N/A	-3.6	
883005PRP-N103	19	N/A	-41.2	
883005PRP-N104	19	N/A	-9.2	
883005PRP-N105	19	N/A	-13.2	
883005PRP-N106	26	N/A	5.2	
883005PRP-N107	26	N/A	-22.8	
883005PRP-N108	26	N/A	5.2	
883005PRP-N109	26	N/A	-38.8	
883005PRP-N110	26	N/A	-46.8	

Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N111	19	N/A	-49.2	
883005PRP-N112	19	N/A	6.8	
883005PRP-N113	19	N/A	-21.2	
883005PRP-N114	19	N/A	34.8	
883005PRP-N115	18	N/A	-10.7	
883005PRP-N116	18	N/A	53.6	
883005PRP-N117	19	N/A	-49.2	
883005PRP-N118	26	N/A	-46.8	
883005PRP-N119	19	N/A	18.8	
883005PRP-N120	18	N/A	17.9	
883005PRP-N121	18	N/A	-46.4	
883005PRP-N122	19	N/A	-17.2	
883005PRP-N123	18	N/A	-89.3	
883005PRP-N124	19	N/A	34.8	
883005PRP-N125	18	N/A	-153.6	
883005PRP-N126	19	N/A	-37.2	
883005PRP-N127	18	N/A	189.3	
883005PRP-N128	26	N/A	17.2	
883005PRP-N129	26	N/A	-22.8	
883005PRP-N130	26	N/A	-10.8	
883005PRP-N131	26	N/A	13.2	
883005PRP-N132	26	N/A	13.2	
883005PRP-N133	18	N/A	-46.4	
883005PRP-N134	18	N/A	-46.4	
883005PRP-N135	19	N/A	-69.2	
883005PRP-N136	18	N/A	-75.0	
883005PRP-N137	19	N/A	-101.2	
883005PRP-N138	26	N/A	-2.8	
883005PRP-N139	26	N/A	-6.8	

Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N140	26	N/A	-6.8	

Comments: B883 Project Management decided to keep the east transite walls and steel shelving unit in place as a contamination boundary and manage them as LLW during demolition. Also, some survey points fell on openings in the walls and were not collected. Therefore, the following survey points were removed from this package: 1 - 6, 14 - 19, 38, 42 - 44, 49 - 51, 53, 56, 71 and 84. This resulted in 117 random survey points. The MARSSIM minimum calculation of 120 survey points includes 20% extra to account for missing and/or invalid samples. Therefore, the 117 random survey points collected are sufficient. No further action is required.

Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N007	10	N/A	-48.7	
883005PRP-N008	8	N/A	932.0	
883005PRP-N009	10	N/A	255.9	
883005PRP-N010	22	N/A	165.0	
883005PRP-N011	22	N/A	-362.3	
883005PRP-N012	22	N/A	-107.8	
883005PRP-N013	22	N/A	-12.3	
883005PRP-N020	9	N/A	155.9	
883005PRP-N021	9	N/A	283.1	
883005QRP-N021	25	N/A	290.3	
883005PRP-N022	9	N/A	574.0	
883005PRP-N023	22	N/A	483.1	
883005PRP-N024	22	N/A	-335.0	
883005PRP-N025	22	N/A	151.3	
883005PRP-N026	22	N/A	-153.2	
883005PRP-N027	22	N/A	-26.0	
883005PRP-N028	22	N/A	210.4	
883005PRP-N029	22	N/A	19.5	
883005PRP-N030	8	N/A	725.8	
883005PRP-N031	8	N/A	1,069.5	
883005PRP-N032	8	N/A	813.3	
883005PRP-N033	10	N/A	5.9	
883005PRP-N034	10	N/A	-362.3	
883005PRP-N035	22	N/A	-66.9	
883005PRP-N036	22	N/A	283.1	
883005PRP-N037	22	N/A	19.5	
883005PRP-N039	9	N/A	55.9	

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Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N040	9	N/A	28.6	
883005PRP-N041	9	N/A	-21.4	
883005PRP-N045	8	N/A	994.5	
883005PRP-N046	8	N/A	994.5	
883005PRP-N047	6	N/A	-48.7	
883005PRP-N048	10	N/A	-26.0	
883005PRP-N052	10	N/A	-166.9	
883005QRP-N052	25	N/A	667.6	
883005PRP-N054	4	N/A	301.3	
883005QRP-N054	23	N/A	190.3	
883005PRP-N055	4	N/A	133.1	
883005PRP-N057	22	N/A	-16.9	
883005PRP-N058	22	N/A	-271.4	
883005PRP-N059	4	N/A	1,455.9	
883005QRP-N059	23	N/A	1,294.8	
883005PRP-N060	4	N/A	492.2	
883005PRP-N061	4	N/A	960.4	
883005QRP-N061	23	N/A	1,017.6	
883005PRP-N062	4	N/A	460.4	
883005PRP-N063	4	N/A	383.1	
883005PRP-N064	4	N/A	583.1	
883005PRP-N065	4	N/A	505.9	
883005PRP-N066	4	N/A	424.0	
883005PRP-N067	4	N/A	215.0	
883005PRP-N068	22	N/A	-126.0	
883005PRP-N069	22	N/A	-53.2	
883005PRP-N070	22	N/A	-57.8	

Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N072	4	N/A	328.6	
883005PRP-N073	5	N/A	283.1	
883005PRP-N074	4	N/A	187.7	
883005PRP-N075	5	N/A	-35.0	
883005PRP-N076	4	N/A	369.5	
883005PRP-N077	5	N/A	319.5	
883005PRP-N078	4	N/A	251.3	
883005PRP-N079	5	N/A	174.0	
883005PRP-N080	6	N/A	-16.9	
883005PRP-N081	22	N/A	-116.9	
883005PRP-N082	22	N/A	-298.7	
883005PRP-N083	22	N/A	-112.3	
883005PRP-N085	6	N/A	-26.0	
883005PRP-N086	4	N/A	-162.3	
883005PRP-N087	5	N/A	-71.4	
883005PRP-N088	6	N/A	-3.2	
883005PRP-N089	4	N/A	-94.1	
883005PRP-N090	6	N/A	128.6	
883005PRP-N091	4	N/A	69.5	
883005PRP-N092	6	N/A	355.9	
883005PRP-N093	4	N/A	83.1	
883005PRP-N094	22	N/A	-285.0	
883005PRP-N095	22	N/A	-244.1	
883005PRP-N096	22	N/A	-244.1	
883005PRP-N097	22	N/A	-366.9	
883005PRP-N098	17	N/A	328.6	
883005PRP-N099	17	N/A	92.2	

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Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N100	17	N/A	483.1	
883005PRP-N101	17	N/A	651.3	
883005PRP-N102	17	N/A	369.5	
883005PRP-N103	17	N/A	446.8	
883005QRP-N103	24	N/A	158.5	
883005PRP-N104	9	N/A	510.4	
883005PRP-N105	10	N/A	319.5	
883005PRP-N106	11	N/A	178.6	
883005PRP-N107	22	N/A	42.2	
883005PRP-N108	22	N/A	51.3	
883005PRP-N109	22	N/A	396.8	
883005PRP-N110	22	N/A	-35.0	
883005QRP-N110	25	N/A	-82.4	
883005PRP-N111	17	N/A	337.7	
883005PRP-N112	17	N/A	365.0	
883005PRP-N113	17	N/A	437.7	
883005PRP-N114	17	N/A	610.4	
883005PRP-N115	17	N/A	-107.8	
883005PRP-N116	17	N/A	355.9	
883005PRP-N117	9	N/A	133.1	
883005PRP-N118	9	N/A	174.0	
883005PRP-N119	10	N/A	74.0	
883005PRP-N120	17	N/A	351.3	
883005PRP-N121	17	N/A	65.0	
883005PRP-N122	17	N/A	242.2	
883005PRP-N123	17	N/A	301.3	
883005PRP-N124	17	N/A	28.6	

Survey Area: 1	Survey Unit: 883005	Building: 883

Description: Building 883 Interior
Rooms 138 & 139 All Surfaces, except LLW areas

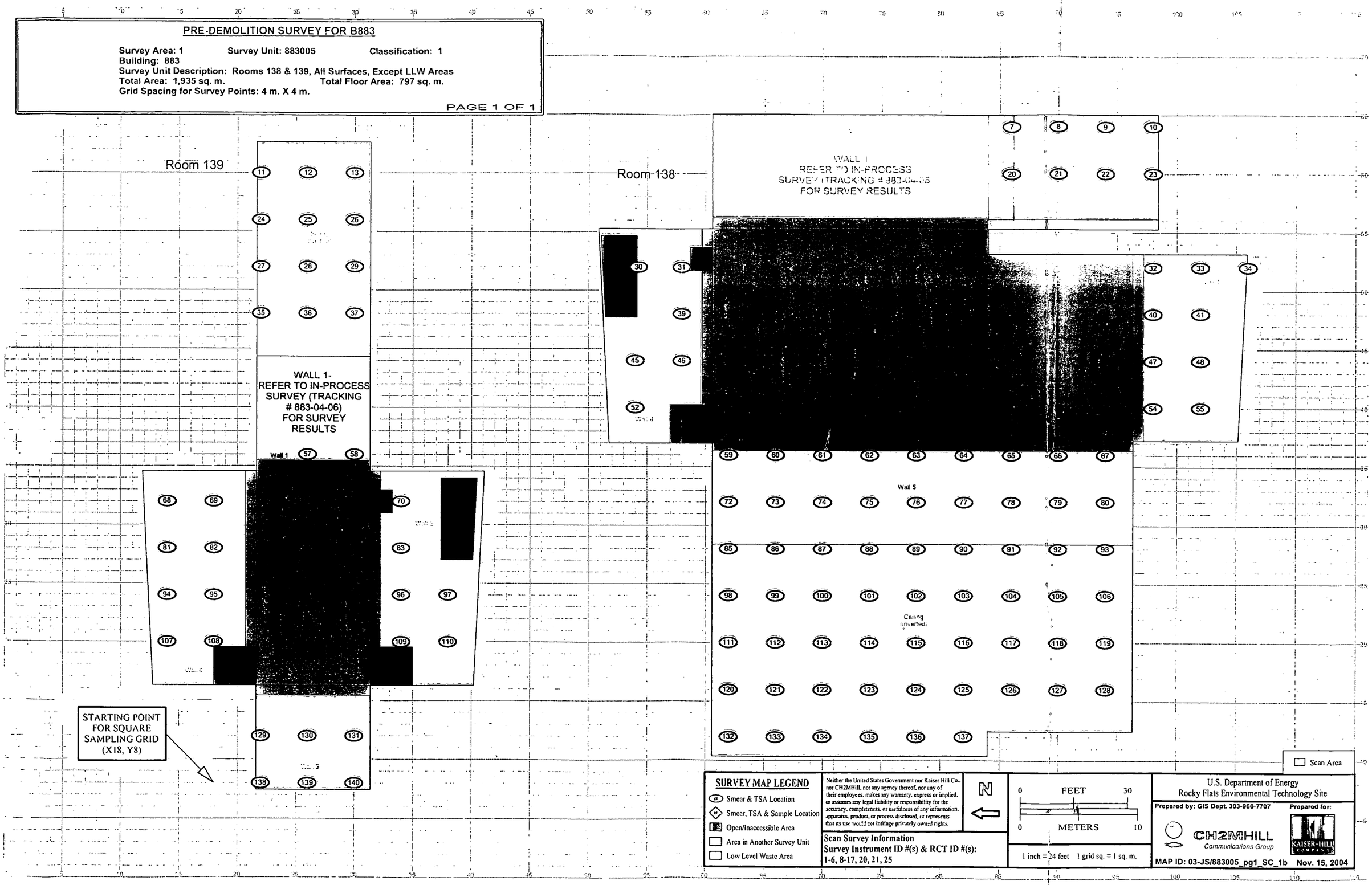
Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883005PRP-N125	17	N/A	528.6	
883005PRP-N126	10	N/A	555.9	
883005PRP-N127	9	N/A	469.5	
883005PRP-N128	10	N/A	-107.8	
883005PRP-N129	22	N/A	78.6	
883005PRP-N130	22	N/A	119.5	
883005PRP-N131	22	N/A	355.9	
883005PRP-N132	17	N/A	146.8	
883005PRP-N133	17	N/A	346.8	
883005PRP-N134	17	N/A	351.3	
883005PRP-N135	17	N/A	278.6	
883005PRP-N136	17	N/A	301.3	
883005PRP-N137	17	N/A	74.0	
883005PRP-N138	22	N/A	251.3	
883005PRP-N139	22	N/A	-466.9	
883005PRP-N140	22	N/A	-66.9	

Comments: B883 Project Management decided to keep the east transite walls and steel shelving unit in place as a contamination boundary and manage them as LLW during demolition. Also, some survey points fell on openings in the walls and were not collected. Therefore, the following survey points were removed from this package: 1 - 6, 14 - 19, 38, 42 - 44, 49 - 51, 53, 56, 71 and 84. This resulted in 117 random survey points. The MARSSIM minimum calculation of 120 survey points includes 20% extra to account for missing and/or invalid samples. Therefore, the 117 random survey points collected are sufficient. No further action is required.

PRE-DEMOLITION SURVEY FOR B883

Survey Area: 1 **Survey Unit: 883005** **Classification: 1**
Building: 883
Survey Unit Description: Rooms 138 & 139, All Surfaces, Except LLW Areas
Total Area: 1,935 sq. m. **Total Floor Area: 797 sq. m.**
Grid Spacing for Survey Points: 4 m. X 4 m.



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COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE electra
Model	2929	Model	N/A	Model	DP-6
Serial #	99042	Serial #	N/A	Serial #	1417
Cal Due	10/26/04	Cal Due	N/A	Cal Due	3/23/05
Bkg.	0.2 cpm α	Bkg.	N/A cpm α	Bkg.	1 cpm α
Efficiency	34.9 %	Efficiency	N/A %	Efficiency	20.5 %
MDA	18 dpm α	MDA	N/A dpm α	MDA	36 dpm α
Mfg.	Ludlum	Mfg.	N/A	Mfg.	NE electra
Model	2929	Model	N/A	Model	DP-6
Serial #	99042	Serial #	N/A	Serial #	1417
Cal Due	10/26/04	Cal Due	N/A	Cal Due	3/23/05
Bkg.	87.2 cpm β	Bkg.	N/A cpm β	Bkg.	740 cpm β
Efficiency	39.0 %	Efficiency	N/A %	Efficiency	22.0 %
MDA	205 dpm β	MDA	N/A dpm β	MDA	745 dpm β

Survey tracking # 883-04-05

Survey type: Fixed/removable contamination

Building: B-883

Location: Rm. 138 east wall (west side of wall)

Purpose: Characterize wall

RWP #: N/A

Date: 10/21/04 Time: 1100

[redacted]

RCT: N/A / N/A / N/A
Print name Signature Emp. #

RCT: N/A / N/A / N/A
Print name Signature Emp. #

Comments: Isotope of concern is Depleted Uranium. Instrument Beta efficiencies listed above are the prescribed default values for D.U., calibrated efficiency for Electra #1417 was-28.3%, for 2929-39.0%. Taped seams on north end of shelf unit was surveyed only for removable and left in place. The remainder of the area in survey was 100% scanned.

SURVEY RESULTS

ID #	LOCATION/DESCRIPTION	ALPHA			Beta		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1-25	On shelf unit	<18	N/A	N/A	<205	<5000	<745
26-49	On transite wall	<18	N/A	N/A	<205	<5000	<745
50-53	On roll-up door	<18	N/A	N/A	<205	<5000	<745
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Date Reviewed: 11/16/04 RS Supervision: [redacted]

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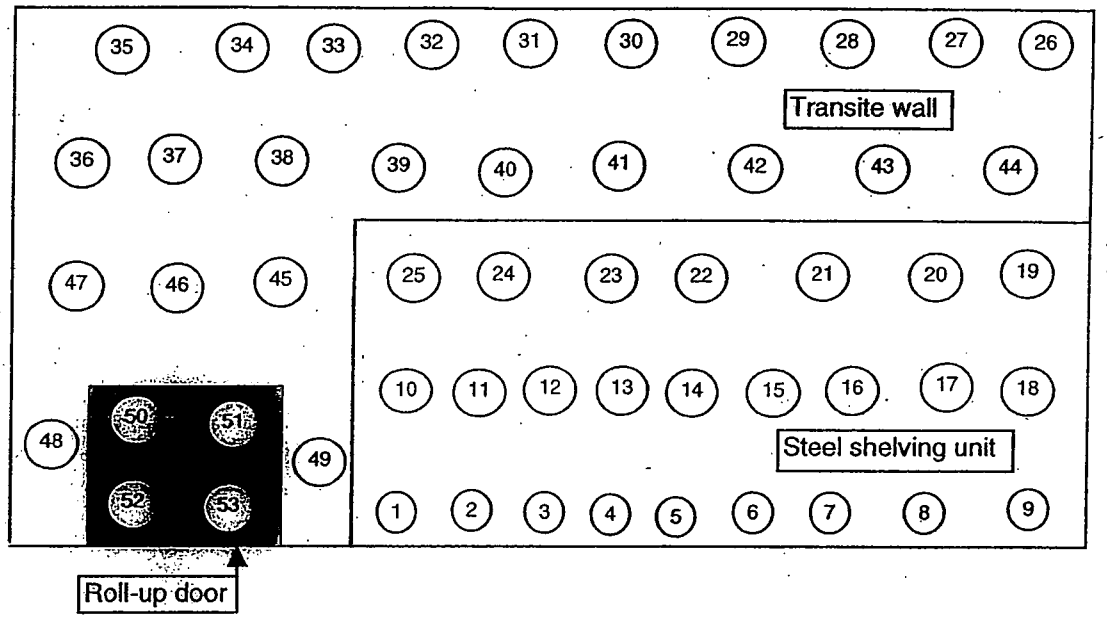
Drawing Showing Survey Points

Room 138 east wall (View in this image is looking from west to east)



North

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COPY

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

INSTRUMENT DATA

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	SAC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	662
Cal Due	*10/26/04*	Cal Due	N/A	Cal Due	3/30/05
Bkg	0.5 cpmα	Bkg	N/A cpmα	Bkg	1.0 cpmα
Efficiency	34.10 %	Efficiency	33.00 %	Efficiency	21.10 %
MDA	18 dpmα	MDA	20 dpmα	MDA	35 dpmα

Mfg.	Ludlum	Mfg.	Eberline	Mfg.	NE Electra
Model	2929	Model	BC-4	Model	DP-6
Serial #	147742	Serial #	N/A	Serial #	662
Cal Due	10/26/04	Cal Due	N/A	Cal Due	3/30/05
Bkg	90.5 cpmβ	Bkg	N/A cpmβ	Bkg	661.0 cpmβ
Efficiency	34.80 %	Efficiency	25.00 %	Efficiency	22.00 %
MDA	205 dpmβ	MDA	200 dpmβ	MDA	556 dpmβ

Survey Tracking # 883-04-06

Survey Type: Contamination

Building: 883

Location: Rm 139 East Wall (west side of wall)

Purpose: Characterization

RWP #: N/A

Date: 10/25/04 Time: 1400

[redacted]

PRN/REN # : N/A

Comments: Nuclide of concern was Depleted Uranium (DU). Survey performed to characterize contamination levels prior to performing D & D work in this area. A 100% scan of all accessible areas was performed on wall surfaces.Beta efficiencies listed reflect correction for DU. Calibrated efficiency for 2929 was 39.0% and for Electra #662 - 30.4%

SURVEY RESULTS

	LOCATION	ALPHA			BETA		
		Swipe	Direct	Wipe	Swipe	Direct	Wipe
#		dpm/100cm2	dpm/100cm2	dpm/wipe	dpm/100cm2	dpm/100cm2	dpm/wipe
1-50	East Wall of Rm 139	<18	NA	<300	<205	<5000	<556
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A
N/A	N/A	N/A	NA	N/A	N/A	N/A	N/A

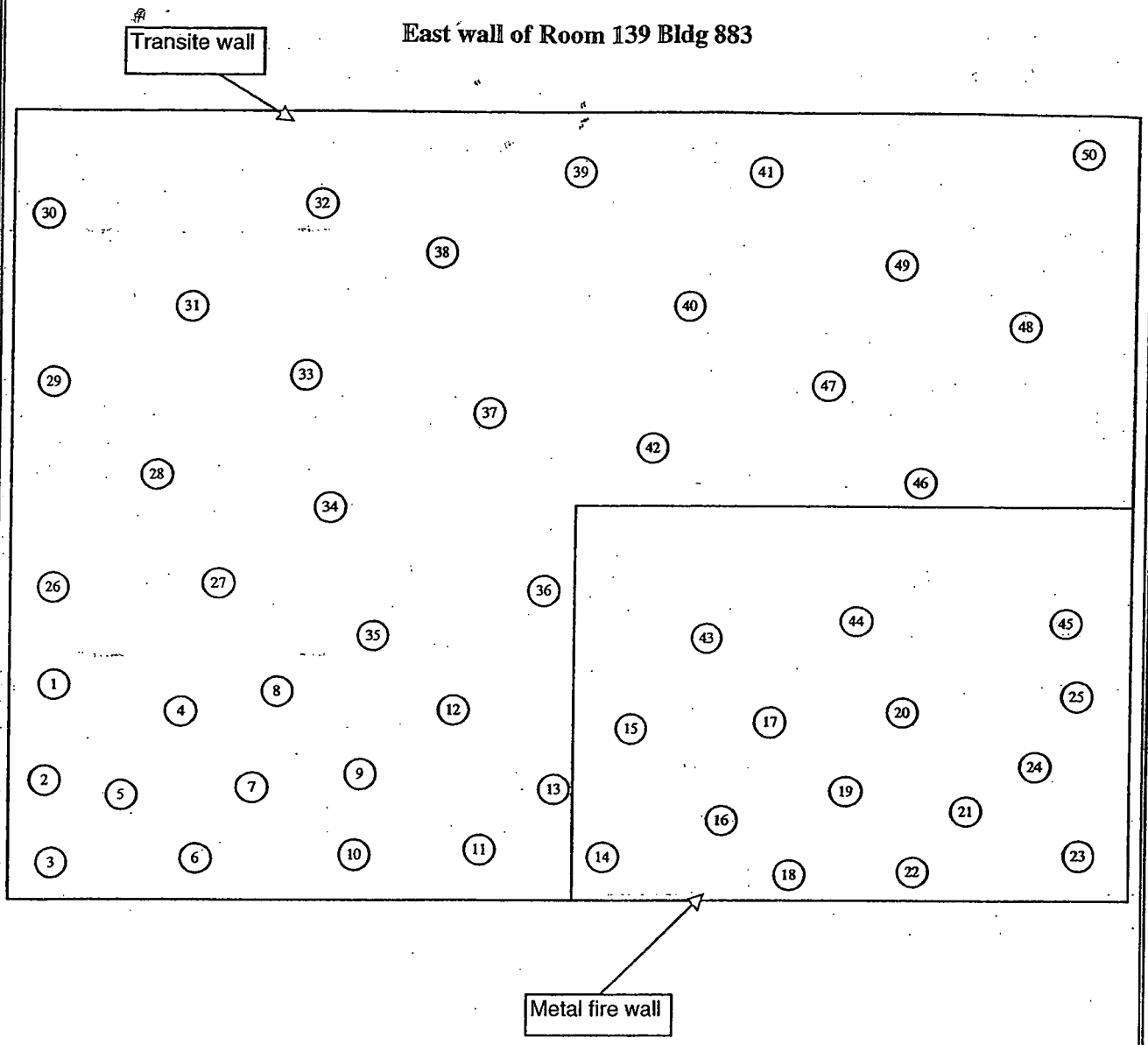
Date Reviewed: 11/10/04 RS Sup[redacted]

Print Name Signature Emp. #

ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE

Drawing Showing Survey Points

East wall of Room 139 Bldg 883



Survey Area: 1	Survey Unit: 883008	Building: 883

Description: Building 883 Interior
Room 144 All Surfaces, except LLW areas

Rocky Flats Environmental Technology Site
Final Radiological Survey Summary Results

Total Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 16

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 0

Nbr QC Required: 2
Nbr QC Performed: 2

Beta

Maximum:	1,701.4 dpm/100cm²
Minimum:	-144.1 dpm/100cm²
Mean:	353.1 dpm/100cm²
Standard Deviation:	534.9
QC Maximum:	1,502.2 dpm/100cm²
QC Minimum:	279.5 dpm/100cm²
QC Mean:	890.9 dpm/100cm²
Uranium DCGL$_W$:	5,000.0 dpm/100cm²
Uranium DCGL$_{EMC}$:	15,000.0 dpm/100cm²

Removable Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 16

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 0

Beta

Maximum:	102.8 dpm/100cm²
Minimum:	-105.0 dpm/100cm²
Mean:	4.3 dpm/100cm²
Standard Deviation:	50.1
Uranium DCGL$_W$:	1,000.0

Media Sample Results

Nbr Random Required: 0
Nbr Random Collected: 0

Nbr Biased Required: 0
Nbr Biased Collected: 0

Conclusion - A comparison of the random, biased and QC measurement results against the PDSP Table 7-1 Surface Contamination Guideline limits was conducted; the comparison demonstrates that this survey unit passes the criterion specified in the PDSP.

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Survey Area: 1	Survey Unit: 883008	Building: 883

Description: Building 883 Interior
Room 144 All Surfaces, except LLW areas

Instrument Data Sheet

Inst/RCT Number	RCT ID	Analysis Date	Instr Model	Instru S/N	Probe Type	Calibration Due Dt	Instru Efficiency Alpha	Instru Efficiency Beta	A-Priori MDA (dpm/100cm²) Alpha	A-Priori MDA (dpm/100cm²) Beta	Survey Type
1	712467	11/01/04	Electra	2344	DP-6	04/11/05	NA	0.220	NA	745.0	T
2	712467	11/01/04	Electra	661	DP-8	03/08/05	NA	0.160	NA	745.0	S
3	711447	11/01/04	Electra	1417	DP-6	03/23/05	NA	0.220	NA	745.0	S
4	511390	11/01/04	Electra	2344	DP-6	04/11/05	NA	0.220	NA	745.0	S
5	712467	11/01/04	BC-4	843	NA	10/04/05	NA	0.140	NA	258.0	R
6	700831	11/06/04	Electra	1672	DP-6	04/28/05	NA	0.220	NA	745.0	T
7	711447	11/06/04	Electra	2344	DP-6	04/11/05	NA	0.220	NA	745.0	Q
8	700831	11/06/04	BC-4	843	NA	10/04/05	NA	0.140	NA	258.0	R

Survey Types: T = Total Surface Activity, Q = TSA QC, S = Scan, R = Removable Surface Activity, I = Investigation

361

Survey Area: 1	Survey Unit: 883008	Building: 883

Description: Building 883 Interior
Room 144 All Surfaces, except LLW areas

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883008PRP-N001	8	N/A	-32.9	
883008PRP-N002	8	N/A	102.8	
883008PRP-N003	8	N/A	45.7	
883008PRP-N004	8	N/A	10.0	
883008PRP-N005	5	N/A	-19.3	
883008PRP-N006	5	N/A	-47.9	
883008PRP-N007	8	N/A	45.7	
883008PRP-N008	5	N/A	-12.2	
883008PRP-N009	5	N/A	-33.6	
883008PRP-N010	5	N/A	-5.0	
883008PRP-N011	5	N/A	-105.0	
883008PRP-N012	8	N/A	17.1	
883008PRP-N013	5	N/A	30.7	
883008PRP-N014	5	N/A	-12.2	
883008PRP-N015	8	N/A	74.2	
883008PRP-N016	8	N/A	10.0	

Comments:

Survey Area: 1	Survey Unit: 883008	Building: 883

Description: Building 883 Interior
Room 144 All Surfaces, except LLW areas

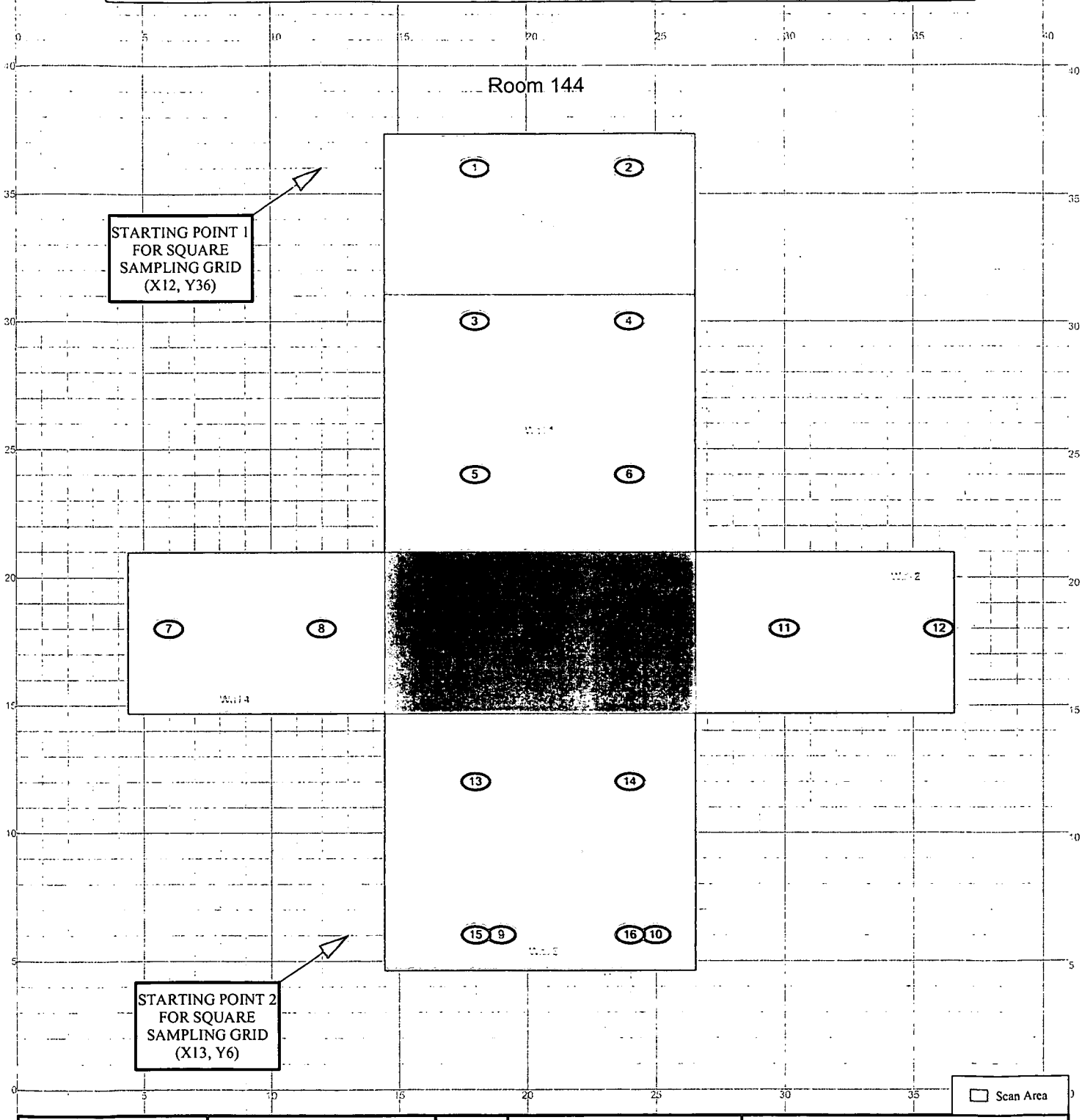
Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883008PRP-N001	6	N/A	196.8	
883008PRP-N002	6	N/A	215.0	
883008PRP-N003	6	N/A	-30.4	
883008PRP-N004	6	N/A	-7.7	
883008PRP-N005	1	N/A	110.5	
883008PRP-N006	1	N/A	642.3	
883008PRP-N007	6	N/A	324.1	
883008QRP-N007	7	N/A	279.5	
883008PRP-N008	1	N/A	219.6	
883008PRP-N009	1	N/A	1,701.4	
883008PRP-N010	1	N/A	1,501.4	
883008QRP-N010	7	N/A	1,502.2	
883008PRP-N011	1	N/A	133.2	
883008PRP-N012	6	N/A	-44.1	
883008PRP-N013	1	N/A	633.2	
883008PRP-N014	1	N/A	178.6	
883008PRP-N015	6	N/A	19.6	
883008PRP-N016	6	N/A	-144.1	

Comments:

PRE-DEMOLITION SURVEY FOR B883

Survey Area: 1 **Survey Unit: 883008** **Classification: 1**
Building: 883
Survey Unit Description: Room 144, All Surfaces Interior, Except LLW Areas
Total Area: 523 sq. m. **Total Floor Area: 76 sq. m.**
Grid Spacing for Survey Points: 6 m. X 6 m.



SURVEY MAP LEGEND

- Smear & TSA Location
- Smear, TSA & Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit
- Low Level Waste Areas

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N

0 FEET 25
0 METERS 8

1 inch = 18 feet 1 grid sq. = 1 sq. m.

Scan Survey Information
Survey Instrument ID #(s) & RCT ID #(s):
2, 3, 4

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707 **Prepared for:**

CH2MHILL
Communications Group

KAISER-HILL COMPANY

MAP ID: 03-JS/883008-SC **Nov. 11, 2004**

364

Survey Area: 1	Survey Unit: 883009	Building: 883

Description: Building 883 Interior Room 137 All Surfaces, except LLW areas

Rocky Flats Environmental Technology Site
Final Radiological Survey Summary Results

Total Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 15

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 0

Nbr QC Required: 2
Nbr QC Performed: 2

Beta

Maximum:	1,002.1 dpm/100cm²
Minimum:	-397.9 dpm/100cm²
Mean:	397.6 dpm/100cm²
Standard Deviation:	483.0
QC Maximum:	1,131.8 dpm/100cm²
QC Minimum:	127.3 dpm/100cm²
QC Mean:	629.6 dpm/100cm²
Uranium $DCGL_W$:	5,000.0 dpm/100cm²
Uranium $DCGL_{EMC}$:	15,000.0 dpm/100cm²

Removable Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 15

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 0

Beta

Maximum:	130.7 dpm/100cm²
Minimum:	-133.5 dpm/100cm²
Mean:	35.5 dpm/100cm²
Standard Deviation:	64.5
Uranium $DCGL_W$:	1,000.0

Media Sample Results

Nbr Random Required: 0
Nbr Random Collected: 0

Nbr Biased Required: 0
Nbr Biased Collected: 0

Conclusion - A comparison of the random, biased and QC measurement results against the PDSP Table 7-1 Surface Contamination Guideline limits was conducted; the comparison demonstrates that this survey unit passes the criterion specified in the PDSP.

365

Survey Area: 1	Survey Unit: 883009	Building: 883

Description: Building 883 Interior Room 137 All Surfaces, except LLW areas

Instrument Data Sheet

Inst/RCT Number	RCT ID	Analysis Date	Instr Model	Instru S/N	Probe Type	Calibration Due Dt	Instru Efficiency Alpha	Instru Efficiency Beta	A-Priori MDA (dpm/100cm²) Alpha	A-Priori MDA (dpm/100cm²) Beta	Survey Type
1	711447	10/26/04	Electra	662	DP-6	03/30/05	NA	0.220	NA	745.0	T/S
2	700831	10/26/04	BC-4	911	NA	10/29/04	NA	0.140	NA	258.0	R
3	511390	10/27/04	Electra	1417	DP-6	03/23/05	NA	0.220	NA	745.0	Q
4	711447	10/21/04	Electra	662	DP-6	03/30/05	NA	0.220	NA	745.0	S
5	511390	10/21/04	Electra	1366	DP-6	04/05/05	NA	0.220	NA	745.0	S

Survey Types: T = Total Surface Activity, Q = TSA QC, S = Scan, R = Removable Surface Activity, I = Investigation

Survey Area: 1	Survey Unit: 883009	Building: 883

Description: Building 883 Interior Room 137 All Surfaces, except LLW areas

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883009PRP-N001	2	N/A	9.3	
883009PRP-N002	2	N/A	-19.3	
883009PRP-N003	2	N/A	37.9	
883009PRP-N004	2	N/A	-133.5	
883009PRP-N005	2	N/A	23.6	
883009PRP-N006	2	N/A	116.5	
883009PRP-N007	2	N/A	66.5	
883009PRP-N008	2	N/A	130.7	
883009PRP-N009	2	N/A	52.2	
883009PRP-N010	2	N/A	-12.1	
883009PRP-N011	2	N/A	66.5	
883009PRP-N012	2	N/A	37.9	
883009PRP-N013	2	N/A	80.7	
883009PRP-N014	2	N/A	80.7	
883009PRP-N015	2	N/A	-5.0	

Comments:

Survey Area: 1	Survey Unit: 883009	Building: 883

Description: Building 883 Interior Room 137 All Surfaces, except LLW areas

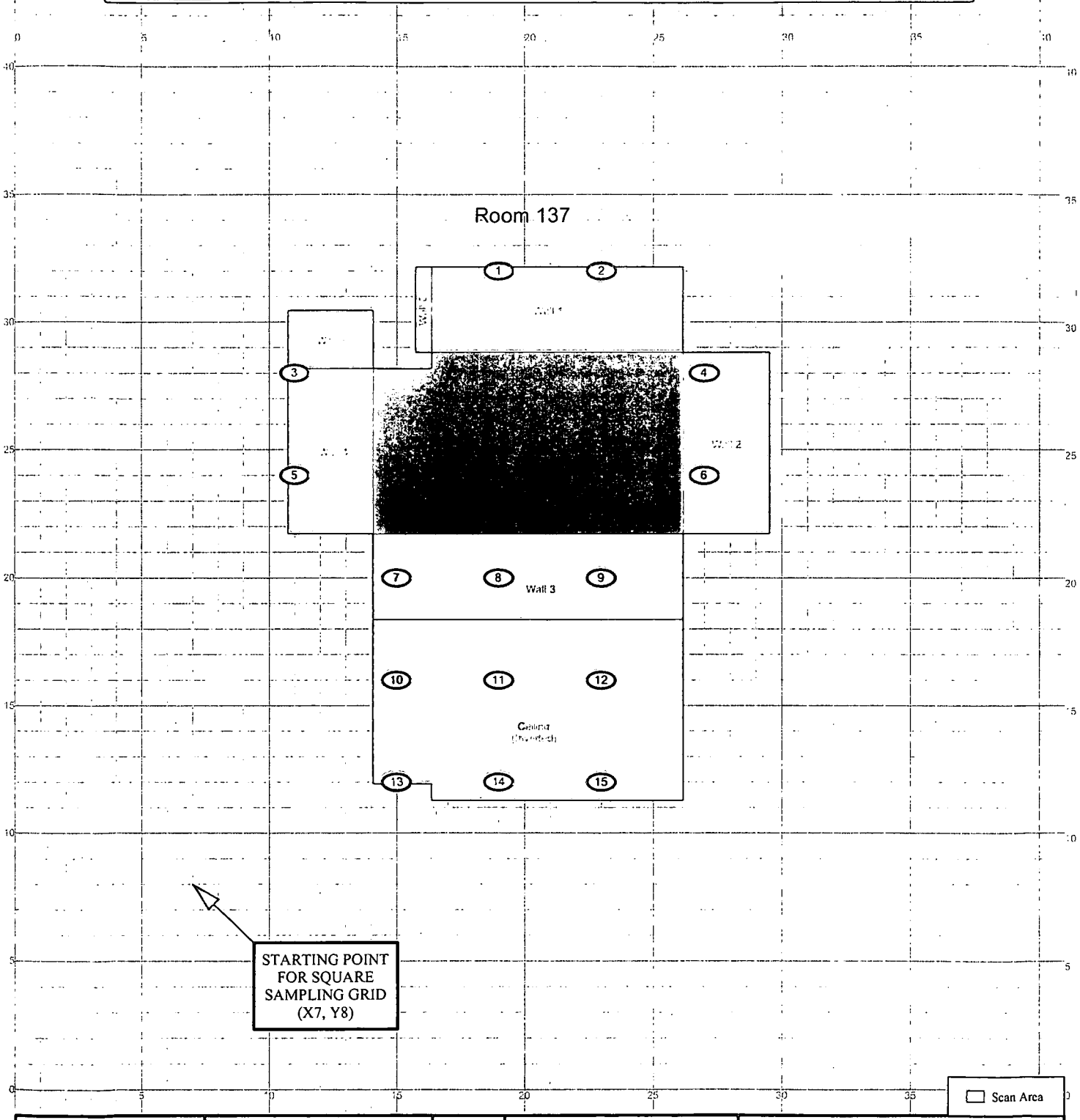
Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883009PRP-N001	1	N/A	693.0	
883009PRP-N002	1	N/A	497.6	
883009PRP-N003	1	N/A	283.9	
883009PRP-N004	1	N/A	-252.4	
883009PRP-N005	1	N/A	124.9	
883009PRP-N006	1	N/A	-397.9	
883009PRP-N007	1	N/A	-293.3	
883009PRP-N008	1	N/A	183.9	
883009QRP-N008	3	N/A	127.3	
883009PRP-N009	1	N/A	24.9	
883009PRP-N010	1	N/A	652.1	
883009PRP-N011	1	N/A	1,002.1	
883009PRP-N012	1	N/A	956.7	
883009QRP-N012	3	N/A	1,131.8	
883009PRP-N013	1	N/A	879.4	
883009PRP-N014	1	N/A	974.9	
883009PRP-N015	1	N/A	633.9	

Comments:

PRE-DEMOLITION SURVEY FOR B883

Survey Area: 1 **Survey Unit: 883009** **Classification: 1**
Building: 883
Survey Unit Description: Room 137, All Surfaces, Except LLW Areas
Total Area: 213 sq. m. **Total Floor Area: 84 sq. m.**
Grid Spacing for Survey Points: 4 m. X 4 m.



SURVEY MAP LEGEND

- Smear & TSA Location
- Smear, TSA & Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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N

0 FEET 25
0 METERS 8

1 inch = 18 feet 1 grid sq. = 1 sq. m.

Scan Survey Information
Survey Instrument ID #(s) & RCT ID #(s):
1, 4, 5

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707 Prepared for:

CH2MHILL Communications Group

KAISER-HILL COMPANY

MAP ID: 03-JS/883009_SC Nov. 3, 2004

Survey Area: 1	Survey Unit: 883011	Building: 883

Description: Building 883, Rooms 116, 118 - 122, 140 - 143A, 145, Door 15 South Entry Vestibule, 214 - 220 & 220A, All surfaces

Rocky Flats Environmental Technology Site
Final Radiological Survey Summary Results

Total Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 20

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 0

Nbr QC Required: 2
Nbr QC Performed: 2

Beta

Maximum:	1,502.3 dpm/100cm²
Minimum:	-611.4 dpm/100cm²
Mean:	345.7 dpm/100cm²
Standard Deviation:	716.6
QC Maximum:	1,368.2 dpm/100cm²
QC Minimum:	113.6 dpm/100cm²
QC Mean:	740.9 dpm/100cm²
Uranium DCGL$_W$:	5,000.0 dpm/100cm²
Uranium DCGL$_{EMC}$:	15,000.0 dpm/100cm²

Removable Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 20

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 0

Beta

Maximum:	83.2 dpm/100cm²
Minimum:	-48.8 dpm/100cm²
Mean:	13.2 dpm/100cm²
Standard Deviation:	39.4
Uranium DCGL$_W$:	1,000.0

Media Sample Results

Nbr Random Required: 0
Nbr Random Collected: 0

Nbr Biased Required: 0
Nbr Biased Collected: 0

Conclusion - A comparison of the random, biased and QC measurement results against the PDSP Table 7-1 Surface Contamination Guideline limits was conducted; the comparison demonstrates that this survey unit passes the criterion specified in the PDSP.

Survey Area: 1	Survey Unit: 883011	Building: 883

Description: Building 883, Rooms 116, 118 - 122, 140 - 143A, 145, Door 15 South Entry Vestibule, 214 - 220 & 220A, All surfaces

Instrument Data Sheet

Inst/RCT Number	RCT ID	Analysis Date	Instr Model	Instru S/N	Probe Type	Calibration Due Dt	Instru Efficiency Alpha	Instru Efficiency Beta	A-Priori MDA (dpm/100cm²) Alpha	A-Priori MDA (dpm/100cm²) Beta	Survey Type
1	700831	10/21/04	Electra	1417	DP-6	03/23/05	NA	0.220	NA	745.0	T/Q/S
2	711447	10/21/04	Electra	662	DP-6	03/30/05	NA	0.220	NA	745.0	T/S
3	511390	10/21/04	Ludlum 292	99042	NA	10/26/04	NA	0.250	NA	10.0	R
4	712193	11/03/04	Electra	662	DP-6	03/30/05	NA	0.220	NA	745.0	Q

Survey Types: T = Total Surface Activity, Q = TSA QC, S = Scan, R = Removable Surface Activity, I = Investigation

320

Survey Area: 1	Survey Unit: 883011	Building: 883

Description: Building 883, Rooms 116, 118 - 122, 140 - 143A, 145, Door 15 South Entry Vestibule, 214 - 220 & 220A, All surfaces

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883011PRP-N001	3	N/A	-8.8	
883011PRP-N002	3	N/A	27.2	
883011PRP-N003	3	N/A	-48.8	
883011PRP-N004	3	N/A	59.2	
883011PRP-N005	3	N/A	-12.8	
883011PRP-N006	3	N/A	-20.8	
883011PRP-N007	3	N/A	-28.8	
883011PRP-N008	3	N/A	31.2	
883011PRP-N009	3	N/A	59.2	
883011PRP-N010	3	N/A	43.2	
883011PRP-N011	3	N/A	-0.8	
883011PRP-N012	3	N/A	-40.8	
883011PRP-N013	3	N/A	-28.8	
883011PRP-N014	3	N/A	3.2	
883011PRP-N015	3	N/A	75.2	
883011PRP-N016	3	N/A	83.2	
883011PRP-N017	3	N/A	-16.8	
883011PRP-N018	3	N/A	15.2	
883011PRP-N019	3	N/A	47.2	
883011PRP-N020	3	N/A	27.2	

Comments:

Survey Area: 1	Survey Unit: 883011	Building: 883

Description: Building 883, Rooms 116, 118 - 122, 140 - 143A, 145, Door 15 South Entry Vestibule, 214 - 220 & 220A, All surfaces

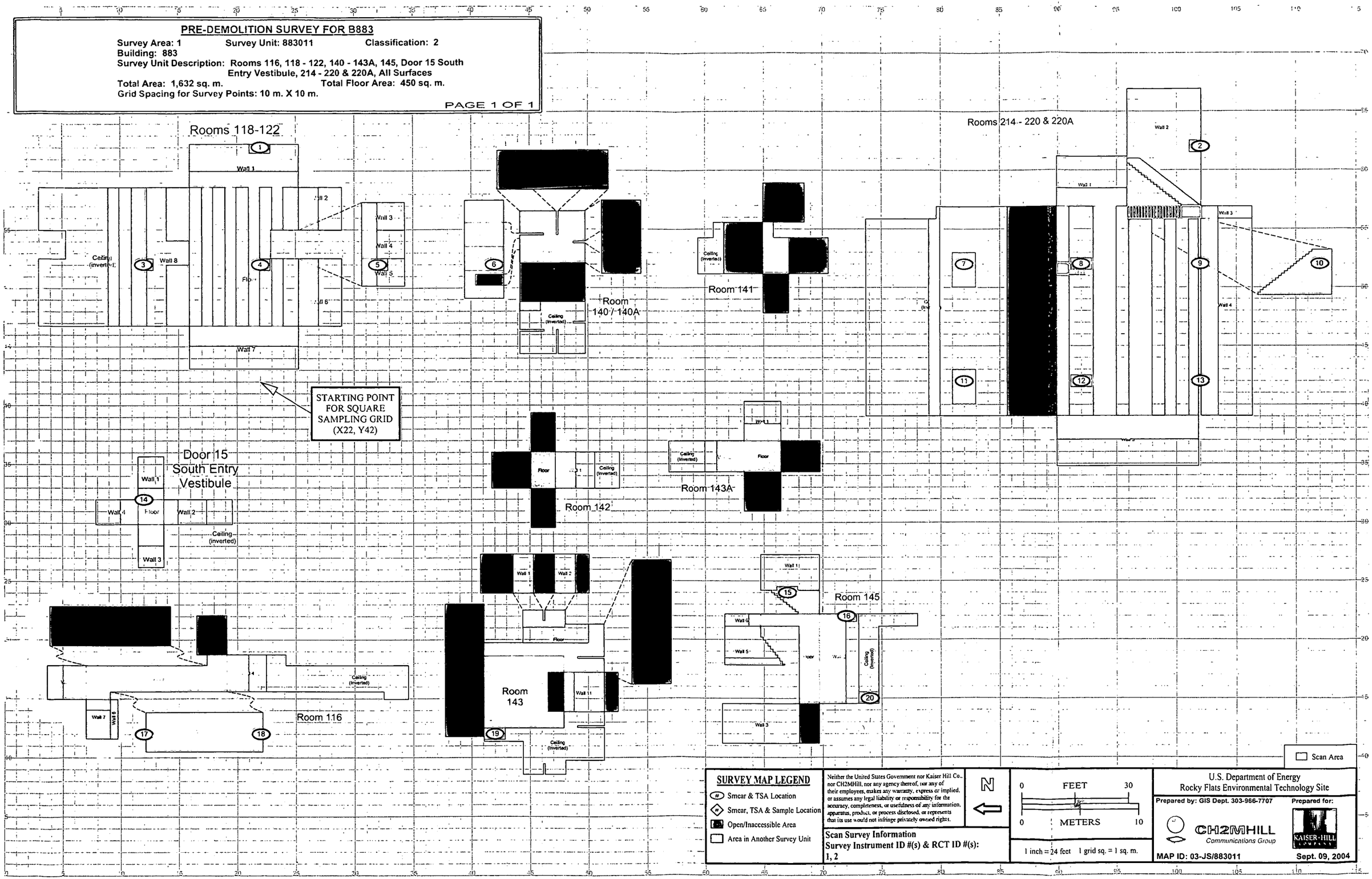
Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883011PRP-N001	1	N/A	-538.7	
883011PRP-N002	1	N/A	-611.4	
883011PRP-N003	1	N/A	488.6	
883011QRP-N004	1	N/A	113.6	
883011PRP-N004	2	N/A	725.0	
883011PRP-N005	2	N/A	-461.4	
883011PRP-N006	1	N/A	156.8	
883011PRP-N007	1	N/A	1,034.1	
883011PRP-N008	1	N/A	1,161.3	
883011QRP-N008	4	N/A	1,368.2	
883011PRP-N009	1	N/A	1,179.5	
883011PRP-N010	1	N/A	-420.5	
883011PRP-N011	1	N/A	1,025.0	
883011PRP-N012	1	N/A	1,502.3	
883011PRP-N013	1	N/A	934.1	
883011PRP-N014	2	N/A	-561.4	
883011PRP-N015	1	N/A	-556.8	
883011PRP-N016	2	N/A	-202.3	
883011PRP-N017	1	N/A	252.3	
883011PRP-N018	2	N/A	56.8	
883011PRP-N019	1	N/A	1,034.1	
883011PRP-N020	1	N/A	715.9	

Comments:

PRE-DEMOLITION SURVEY FOR B883

Survey Area: 1 **Survey Unit: 883011** **Classification: 2**
Building: 883
Survey Unit Description: Rooms 116, 118 - 122, 140 - 143A, 145, Door 15 South Entry Vestibule, 214 - 220 & 220A, All Surfaces
Total Area: 1,632 sq. m. **Total Floor Area: 450 sq. m.**
Grid Spacing for Survey Points: 10 m. X 10 m.



SURVEY MAP LEGEND

- Smear & TSA Location
- Smear, TSA & Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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N

0 FEET 30
0 METERS 10

1 inch = 24 feet 1 grid sq. = 1 sq. m.

Scan Survey Information
Survey Instrument ID #(s) & RCT ID #(s):
1, 2

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707 **Prepared for:**

CH2MHILL Communications Group

KAISER-HILL COMPANY

MAP ID: 03-JS/883011 **Sept. 09, 2004**

Survey Area: 1	Survey Unit: 883012	Building: 883

Description: Building 883, Rooms 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A, 204, 204A, 204B, 205, 206, 208, 208A, 208B, 211 and attic. All Surfaces, except LLW areas

Rocky Flats Environmental Technology Site
Final Radiological Survey Summary Results

Total Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 23

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 3

Nbr QC Required: 2
Nbr QC Performed: 2

Beta

Maximum:	2,593.5 dpm/100cm²
Minimum:	-515.6 dpm/100cm²
Mean:	681.6 dpm/100cm²
Standard Deviation:	867.2
QC Maximum:	1,136.4 dpm/100cm²
QC Minimum:	1,090.9 dpm/100cm²
QC Mean:	1,113.6 dpm/100cm²
Uranium DCGLW:	5,000.0 dpm/100cm²
Uranium DCGLEMC:	15,000.0 dpm/100cm²

Removable Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 23

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 3

Beta

Maximum:	125.7 dpm/100cm²
Minimum:	-74.3 dpm/100cm²
Mean:	-22.4 dpm/100cm²
Standard Deviation:	46.1
Uranium DCGLW:	1,000.0

Media Sample Results

Nbr Random Required: 7
Nbr Random Collected: 7

Nbr Biased Required: 0
Nbr Biased Collected: 0

Conclusion - A comparison of the random, biased and QC measurement results against the PDSP Table 7-1 Surface Contamination Guideline limits was conducted; the comparison demonstrates that this survey unit passes the criterion specified in the PDSP.

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Survey Area: 1	Survey Unit: 883012	Building: 883

Description: Building 883, Rooms 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A, 204, 204A, 204B, 205, 206, 208, 208A, 208B, 211 and attic. All Surfaces, except LLW areas

Instrument Data Sheet

Inst/RCT Number	RCT ID	Analysis Date	Instr Model	Instru S/N	Probe Type	Calibration Due Dt	Instru Efficiency		A-Priori MDA (dpm/100cm²)		Survey Type
							Alpha	Beta	Alpha	Beta	
1	712193	12/02/04	Electra	659	DP-8	03/07/05	NA	0.160	NA	745.0	S
2	712467	12/02/04	Electra	662	DP-6	03/30/05	NA	0.220	NA	745.0	T/S
3	712193	12/02/04	Electra	1235	DP-6	03/16/05	NA	0.220	NA	745.0	S
4	700831	12/03/04	Electra	662	DP-6	03/30/05	NA	0.220	NA	745.0	T/S
5	712467	12/03/04	Electra	1235	DP-6	03/16/05	NA	0.220	NA	745.0	Q
6	700831	12/06/04	BC-4	843	NA	10/04/05	NA	0.140	NA	258.0	R
7	712193	12/06/04	Electra	2340	DP-6	05/15/05	NA	0.220	NA	745.0	T

Survey Types: T = Total Surface Activity, Q = TSA QC, S = Scan, R = Removable Surface Activity, I = Investigation

378

Survey Area: 1	Survey Unit: 883012	Building: 883

Description: Building 883, Rooms 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A, 204, 204A, 204B, 205, 206, 208, 208A, 208B, 211 and attic. All Surfaces, except LLW areas

Random Removable Surface Activity Data Sheet

	Pre Media Sample Data			Post Media Sample Data		
Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)
883012PRP-N001	6	N/A	-52.9		N/A	N/A
883012PRP-N002	6	N/A	-52.9		N/A	N/A
883012PRP-N003	6	N/A	-24.3		N/A	N/A
883012PRP-N004	6	N/A	4.3	6	N/A	40.0
883012PRP-N005	6	N/A	-74.3		N/A	N/A
883012PRP-N006	6	N/A	-52.9		N/A	N/A
883012PRP-N007	6	N/A	40.0	6	N/A	-38.6
883012PRP-N008	6	N/A	4.3	6	N/A	-2.9
883012PRP-N009	6	N/A	-67.2		N/A	N/A
883012PRP-N010	6	N/A	-60.0	6	N/A	25.7
883012PRP-N011	6	N/A	125.7		N/A	N/A
883012PRP-N012	6	N/A	-52.9		N/A	N/A
883012PRP-N013	6	N/A	-38.6		N/A	N/A
883012PRP-N014	6	N/A	4.3		N/A	N/A
883012PRP-N015	6	N/A	18.6		N/A	N/A
883012PRP-N016	6	N/A	-74.3	6	N/A	-45.7
883012PRP-N017	6	N/A	25.7		N/A	N/A
883012PRP-N018	6	N/A	-60.0		N/A	N/A
883012PRP-N019	6	N/A	-74.3	6	N/A	32.8
883012PRP-N020	6	N/A	25.7	6	N/A	4.3
883012PRP-N021	6	N/A	-2.9		N/A	N/A
883012PRP-N022	6	N/A	-24.3		N/A	N/A
883012PRP-N023	6	N/A	-45.7		N/A	N/A

Survey Area: 1	Survey Unit: 883012	Building: 883

Description: Building 883, Rooms 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A, 204, 204A, 204B, 205, 206, 208, 208A, 208B, 211 and attic. All Surfaces, except LLW areas

Biased Removable Surface Activity Data Sheet

Biased Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883012PBP-N024	6	N/A	-24.3	
883012PBP-N025	6	N/A	-2.9	
883012PBP-N026	6	N/A	-45.7	

Comments:

327

Survey Area: 1	Survey Unit: 883012	Building: 883

Description: Building 883, Rooms 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A, 204, 204A, 204B, 205, 206, 208, 208A, 208B, 211 and attic. All Surfaces, except LLW areas

Random/QC Total Surface Activity Data Sheet

	Pre Media Sample Data			Post Media Sample Data		
Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)
883012PRP-N001	2	N/A	-333.8		N/A	N/A
883012PRP-N002	2	N/A	-124.7		N/A	N/A
883012PRP-N003	2	N/A	2,057.1		N/A	N/A
883012PRP-N004	7	N/A	302.5	7	N/A	177.9
883012PRP-N005	5	N/A	-324.7		N/A	N/A
883012PRP-N006	2	N/A	852.5		N/A	N/A
883012PRP-N007	7	N/A	588.9	7	N/A	296.1
883012PRP-N008	7	N/A	907.1	7	N/A	1,177.9
883012PRP-N009	5	N/A	1,548.0		N/A	N/A
883012PRP-N010	7	N/A	320.7	7	N/A	1,487.0
883012PRP-N011	4	N/A	2,593.5		N/A	N/A
883012QRP-N011	5	N/A	1,090.9		N/A	N/A
883012PRP-N012	4	N/A	2,575.3		N/A	N/A
883012QRP-N012	5	N/A	1,136.4		N/A	N/A
883012PRP-N013	5	N/A	1,316.2		N/A	N/A
883012PRP-N014	5	N/A	-515.6		N/A	N/A
883012PRP-N015	5	N/A	452.5		N/A	N/A
883012PRP-N016	7	N/A	-311.1	7	N/A	-58.4
883012PRP-N017	5	N/A	-397.5		N/A	N/A
883012PRP-N018	5	N/A	1,020.7		N/A	N/A
883012PRP-N019	7	N/A	784.4	7	N/A	-299.3
883012PRP-N020	7	N/A	802.5	7	N/A	468.8
883012PRP-N021	4	N/A	966.2		N/A	N/A
883012PRP-N022	4	N/A	1,125.3		N/A	N/A
883012PRP-N023	4	N/A	1,029.8		N/A	N/A

Survey Area: 1	Survey Unit: 883012	Building: 883

Description: Building 883, Rooms 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A, 204, 204A, 204B, 205, 206, 208, 208A, 208B, 211 and attic. All Surfaces, except LLW areas

Biased Total Surface Activity Data Sheet

Biased Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883012PBP-N024	7	N/A	100.0	
883012PBP-N025	7	N/A	677.3	
883012PBP-N026	7	N/A	-290.9	

Comments:

379

Survey Unit 883012 Media Sample Results Table

Map Loc	BLDG	Room	Sample Location Description	Media Type	Random or Biased	Suvey Unit Package #	Sample RIN#	Sample Result (dpm/100cm 2)
4	883	204B	Wall 2 Ft. high	Paint Chips	Random	883012	N/A	264.6
7	883	114	Wall 6 Ft. high	Paint Chips	Random	883012	N/A	217.3
8	883	114	Wall 2 Ft. high	Paint Chips	Random	883012	N/A	180.4
10	883	117	Wall 10 Ft. high	Paint Chips	Random	883012	N/A	94.6
16	883	117A	Wall 2 Ft. high	Paint Chips	Random	883012	N/A	-6.2
19	883	115	Wall 5 Ft. high	Paint Chips	Random	883012	N/A	92.1
20	883	211	Wall 6 Ft. high	Paint Chips	Random	883012	N/A	62.1
							MIN	-6.2
							MAX	264.6
							MEAN	129.3
							SD	95.0
							DCGLW =	5000.0

Rev 1.

Notes:

1. If N/A is listed for 'Sample RIN#' then the samples were counted on the BC-4 instead of Gamma Spectroscopy.

2. Isotopes of concern were Uranium. Samples analyzed for Uranium isotopes.

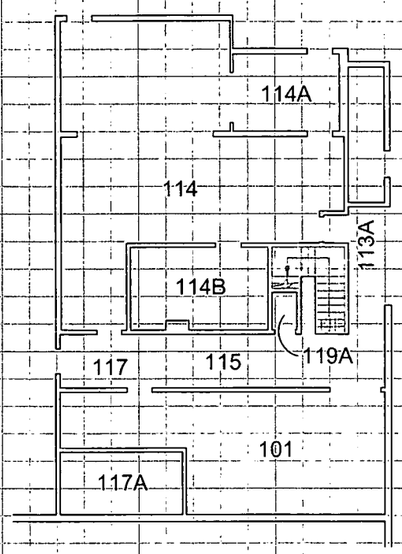
380

PRE-DEMOLITION SURVEY FOR B883

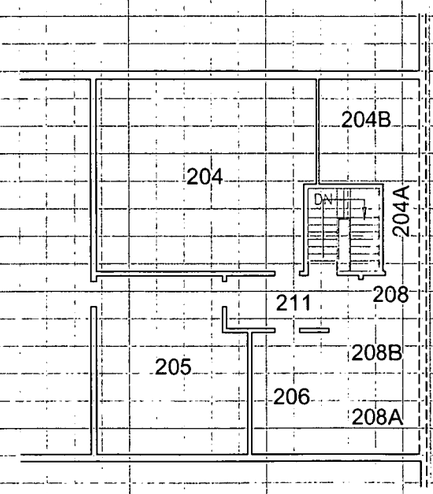
Survey Area: 1 **Survey Unit: 883012** **Classification: 2**
Building: 883
Survey Unit Description: Rooms 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A, 204, 204A, 204B, 205, 206, 208, 208A, 208B, 211, & Attic All Surfaces, Except LLW Areas
Total Area: 2, 145 sq. m. **Total Floor Area: 511 sq. m.**
Gris Spacing of Survey Points: 12 m. X 12 m.

Key Plan

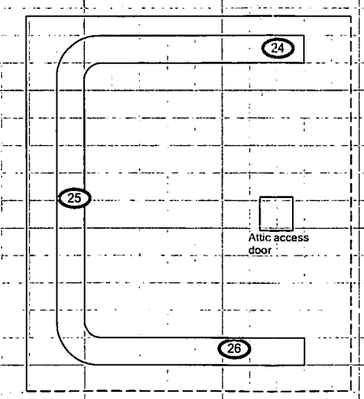
1st Floor Offices



2nd Floor Offices



Attic over 2nd Floor Ofices



SURVEY MAP LEGEND

- Smear & TSA Location
- Smear, TSA & Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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Scan Survey Information
Survey Instrument ID #(s) & RCT ID #(s):
1, 2, 3, 4

N

0 FEET 25
0 METERS 8

1 inch = 18 feet 1 grid sq. = 1 sq. m.

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707
CH2MHILL Communications Group

Prepared for:
KAISER-HILL COMPANY

MAP ID: 03-JS/883013_KP
Dec. 1, 2004

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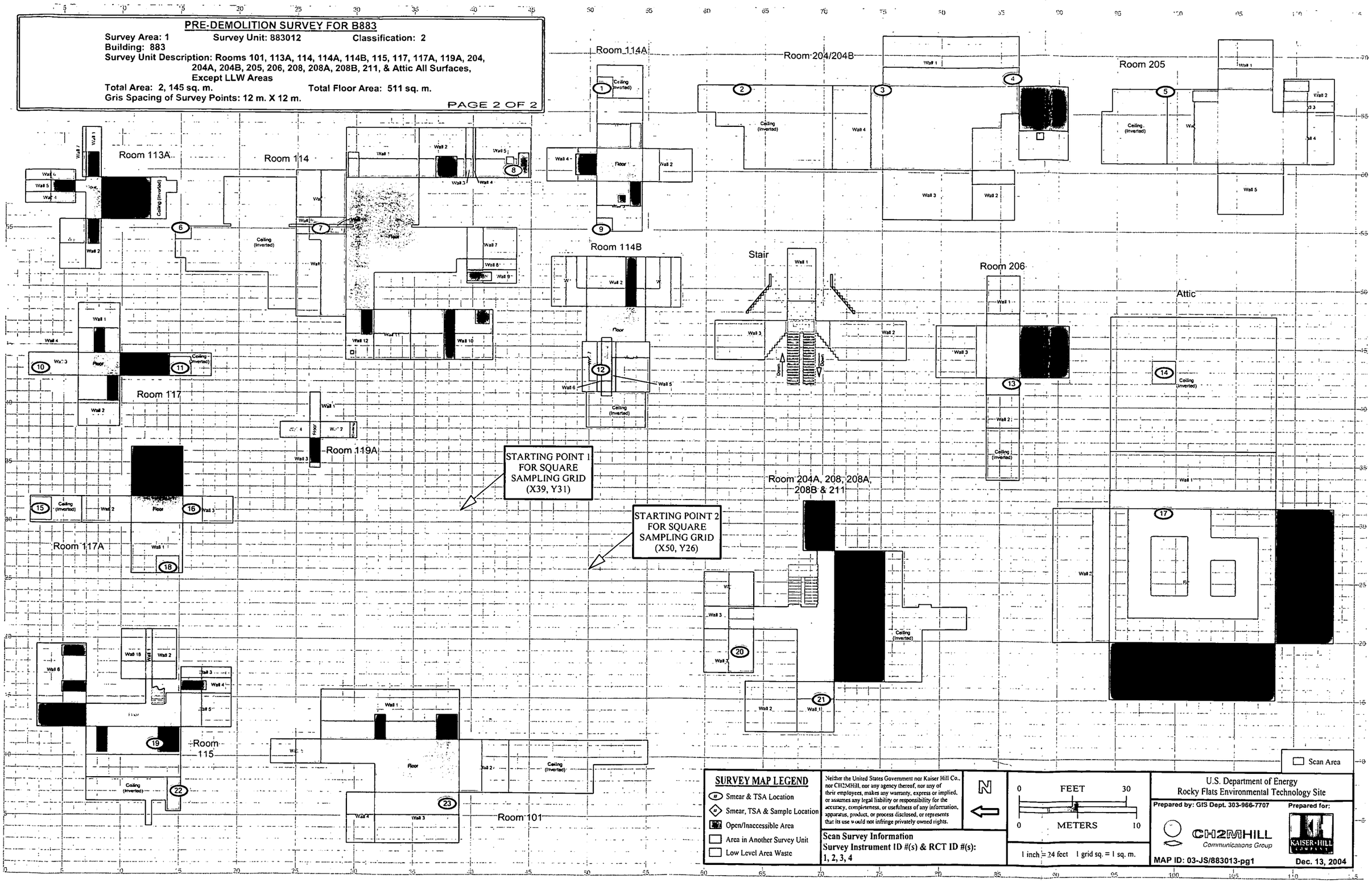
PRE-DEMOLITION SURVEY FOR B883

Survey Area: 1 **Survey Unit: 883012** **Classification: 2**
Building: 883
Survey Unit Description: Rooms 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A, 204, 204A, 204B, 205, 206, 208, 208A, 208B, 211, & Attic All Surfaces, Except LLW Areas
Total Area: 2, 145 sq. m. **Total Floor Area: 511 sq. m.**
Gris Spacing of Survey Points: 12 m. X 12 m.



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Survey Area: 1	Survey Unit: 883015	Building: 883

Description: Building 883 Room 212 Interior Floor, Walls & Ceiling

Rocky Flats Environmental Technology Site
Final Radiological Survey Summary Results

Total Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 15

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 10

Nbr QC Required: 2
Nbr QC Performed: 2

Beta

Maximum:	1,565.4 dpm/100cm²
Minimum:	-311.8 dpm/100cm²
Mean:	479.8 dpm/100cm²
Standard Deviation:	550.7
QC Maximum:	597.7 dpm/100cm²
QC Minimum:	161.3 dpm/100cm²
QC Mean:	379.5 dpm/100cm²
Uranium DCGLw:	5,000.0 dpm/100cm²
Uranium DCGLEMC:	15,000.0 dpm/100cm²

Removable Surface Activity Measurements

Nbr Random Measurements Required: 15
Nbr Random Measurements Performed: 15

Nbr Biased Measurements Required: 0
Nbr Biased Measurements Performed: 10

Beta

Maximum:	40.4 dpm/100cm²
Minimum:	-27.6 dpm/100cm²
Mean:	9.2 dpm/100cm²
Standard Deviation:	17.9
Uranium DCGLw:	1,000.0

Media Sample Results

Nbr Random Required: 0
Nbr Random Collected: 0

Nbr Biased Required: 0
Nbr Biased Collected: 0

Conclusion - A comparison of the random, biased and QC measurement results against the PDSP Table 7-1 Surface Contamination Guideline limits was conducted; the comparison demonstrates that this survey unit passes the criterion specified in the PDSP.

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Survey Area: 1	Survey Unit: 883015	Building: 883

Description: Building 883 Room 212 Interior Floor, Walls & Ceiling

Instrument Data Sheet

Inst/RCT Number	RCT ID	Analysis Date	Instr Model	Instru S/N	Probe Type	Calibration Due Dt	Instru Efficiency Alpha	Instru Efficiency Beta	A-Priori MDA (dpm/100cm²) Alpha	A-Priori MDA (dpm/100cm²) Beta	Survey Type
1	712467	09/08/04	Electra	1569	DP-6	02/03/05	NA	0.220	NA	745.0	T/Q/S
2	700831	09/08/04	Electra	2349	DP-6	12/15/04	NA	0.220	NA	745.0	T/Q/S
3	511390	09/08/04	Ludlum 292	99042	NA	10/26/04	NA	0.250	NA	205.0	R

Survey Types: T = Total Surface Activity, Q = TSA QC, S = Scan, R = Removable Surface Activity, I = Investigation

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Survey Area: 1	Survey Unit: 883015	Building: 883

Description: Building 883 Room 212 Interior Floor, Walls & Ceiling

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883015PRP-N001	3	N/A	-3.6	
883015PRP-N002	3	N/A	-23.6	
883015PRP-N003	3	N/A	0.4	
883015PRP-N004	3	N/A	-27.6	
883015PRP-N005	3	N/A	20.4	
883015PRP-N006	3	N/A	-7.6	
883015PRP-N007	3	N/A	-15.6	
883015PRP-N008	3	N/A	32.4	
883015PRP-N009	3	N/A	36.4	
883015PRP-N010	3	N/A	12.4	
883015PRP-N011	3	N/A	8.4	
883015PRP-N012	3	N/A	40.4	
883015PRP-N013	3	N/A	4.4	
883015PRP-N014	3	N/A	16.4	
883015PRP-N015	3	N/A	24.4	

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Survey Area: 1	Survey Unit: 883015	Building: 883

Description: Building 883 Room 212 Interior Floor, Walls & Ceiling

Biased Removable Surface Activity Data Sheet

Biased Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883015PBP-N016	3	N/A	28.4	
883015PBP-N017	3	N/A	-7.6	
883015PBP-N018	3	N/A	4.4	
883015PBP-N019	3	N/A	12.4	
883015PBP-N020	3	N/A	12.4	
883015PBP-N021	3	N/A	0.4	
883015PBP-N022	3	N/A	24.4	
883015PBP-N023	3	N/A	28.4	
883015PBP-N024	3	N/A	0.4	
883015PBP-N025	3	N/A	8.4	

Comments:

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Survey Area: 1	Survey Unit: 883015	Building: 883

Description: Building 883 Room 212 Interior Floor, Walls & Ceiling

Random/QC Total Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883015PRP-N001	2	N/A	288.5	
883015PRP-N002	1	N/A	502.1	
883015QRP-N002	2	N/A	597.7	
883015PRP-N003	2	N/A	452.1	
883015PRP-N004	1	N/A	606.6	
883015QRP-N004	1	N/A	161.3	
883015PRP-N005	2	N/A	47.5	
883015PRP-N006	2	N/A	188.5	
883015PRP-N007	1	N/A	56.6	
883015PRP-N008	1	N/A	20.3	
883015PRP-N009	2	N/A	102.1	
883015PRP-N010	1	N/A	474.8	
883015PRP-N011	1	N/A	33.9	
883015PRP-N012	2	N/A	443.0	
883015PRP-N013	2	N/A	147.5	
883015PRP-N014	1	N/A	2.1	
883015PRP-N015	1	N/A	347.5	

Survey Area: 1	Survey Unit: 883015	Building: 883

Description: Building 883 Room 212 Interior Floor, Walls & Ceiling

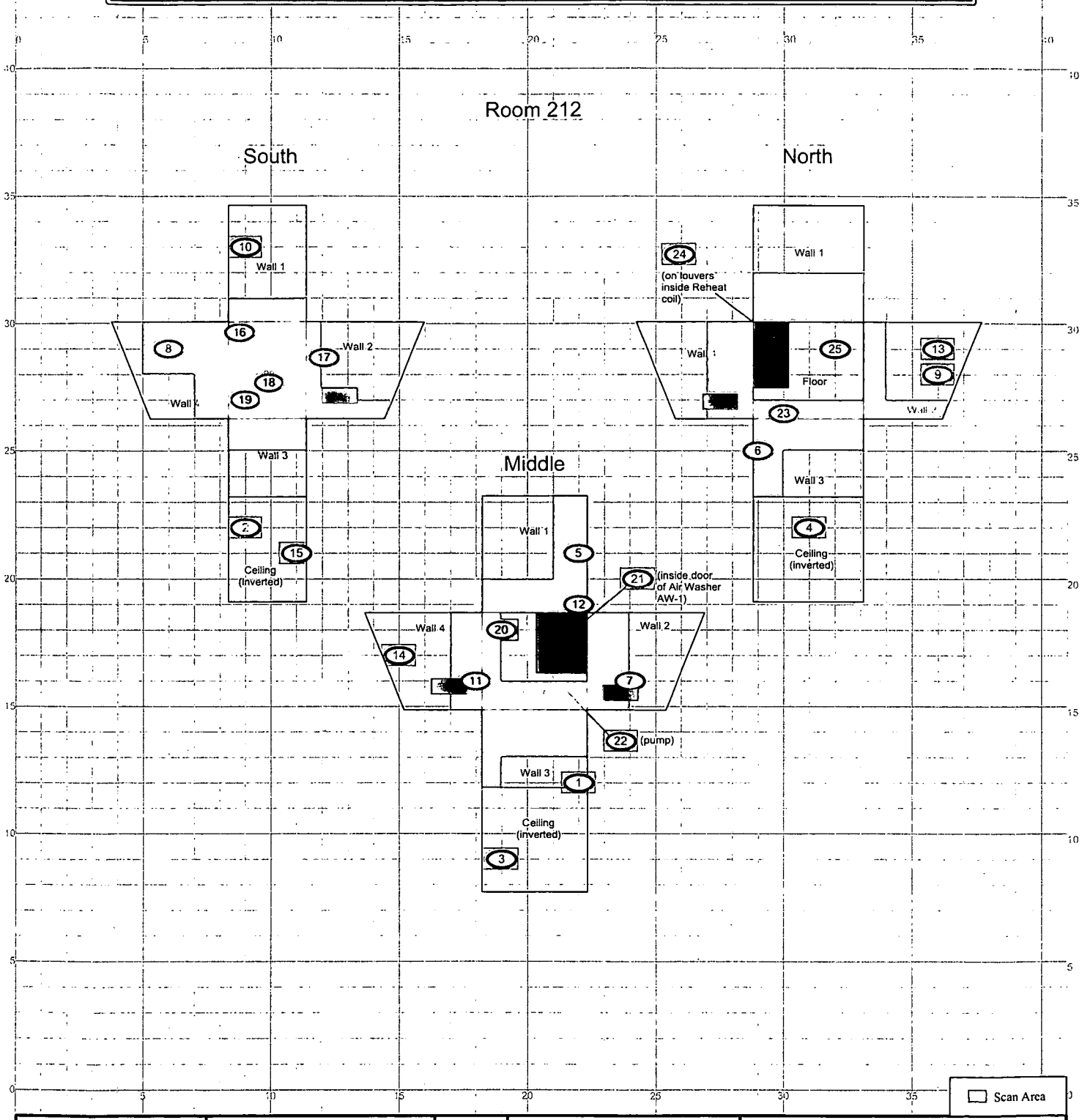
Biased Total Surface Activity Data Sheet

Biased Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm²)	Net Beta (dpm/100cm²)	
883015PBP-N016	1	N/A	1,460.9	
883015PBP-N017	1	N/A	-311.8	
883015PBP-N018	1	N/A	1,333.6	
883015PBP-N019	1	N/A	1,315.4	
883015PBP-N020	1	N/A	1,329.1	
883015PBP-N021	1	N/A	179.1	
883015PBP-N022	1	N/A	120.0	
883015PBP-N023	2	N/A	1,224.5	
883015PBP-N024	2	N/A	65.4	
883015PBP-N025	2	N/A	1,565.4	

Comments:

PRE-DEMOLITION SURVEY FOR B883

Survey Area: 1 **Survey Unit: 883015** **Classification: 3**
Building: 883
Survey Unit Description: Room 212 Interior Floor, Walls & Ceilings
Total Area: 265 sq. m. **Total Floor Area: 44 sq. m.**



SURVEY MAP LEGEND

- Smear & TSA Location
- Smear, TSA & Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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N

0 FEET 25
0 METERS 8

1 inch = 18 feet 1 grid sq. = 1 sq. m.

Scan Survey Information
Survey Instrument ID #(s) & RCT ID #(s):
1, 2

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707 **Prepared for:**

CH2MHILL Communications Group

KAISER-HILL COMPANY

MAP ID: 03-JS/883015/Rm212-SC **Nov. 08, 2004**

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ATTACHMENT C-1

Beryllium Data Summaries and Sample Maps

Building 883 Basement
Beryllium Sample Results Table

Sample Map Location #	Room	RIN	Sample Number	Sample Location	Result (ug/100 cm2)
1	East Air Tunnel	05D0350	883-12302004-313-001	Floor - random, Post-Fixative	<0.1
1	East Air Tunnel	05Z0723	883-12142004-313-001	Floor - random, Pre-Fixative	<0.1
2	East Air Tunnel	05D0350	883-12302004-313-002	Floor - random, Post-Fixative (rewipe for # 2, 05Z0723)	<0.1
2	East Air Tunnel	05Z0723	883-12142004-313-002	Floor - random, Pre-Fixative (see # 2 for rewipe, 05D0350)	0.183
3	3	05Z0724	883-12142004-313-003	Floor - random, Pre-Fixative	<0.1
4	West Air Tunnel	05D0258	883-12062004-313-004	Floor - random, Pre-Fixative (see same # post-fix rewipe, 05D0728)	0.407
4	West Air Tunnel	05Z0728	883-12162004-313-004	Floor - random, Post-Fixative (Post-Fix rewipe for 05D0258)	<0.1
5	5	05D0257	883-12062004-313-005	Floor - random, Pre-Fixative	<0.1
6	3	05Z0724	883-12142004-313-006	Floor - random, Pre-Fixative	<0.1
7	1	05Z0724	883-12142004-313-007	Floor - random, Pre-Fixative	<0.1
8	3	05Z0724	883-12142004-313-008	Floor - random, Pre-Fixative	<0.1
9	1	05Z0724	883-12142004-313-009	Floor - random, Pre-Fixative	<0.1
10	East Air Tunnel	05D0350	883-12302004-313-010	Floor - random, Post-Fixative	<0.1
10	East Air Tunnel	05Z0723	883-12142004-313-010	Floor - random, Pre-Fixative	<0.1
11	East Air Tunnel	05D0350	883-12302004-313-011	Floor - random, Post-Fixative	<0.1
11	East Air Tunnel	05Z0723	883-12142004-313-011	Floor - random, Pre-Fixative	<0.1
12	3	05Z0724	883-12142004-313-012	Floor - random, Pre-Fixative	<0.1
13	3	05Z0724	883-12142004-313-013	Floor - random, Pre-Fixative	<0.1
14	East Air Tunnel	05D0350	883-12302004-313-014	Floor - random, Post-Fixative	<0.1
14	East Air Tunnel	05Z0723	883-12142004-313-014	Floor - random, Pre-Fixative	<0.1
15	3	05Z0724	883-12142004-313-015	Floor - random, Pre-Fixative	<0.1
16	5	05D0257	883-12062004-313-016	Floor - random, Pre-Fixative	<0.1
17	5	05D0257	883-12062004-313-017	Floor - random, Pre-Fixative	<0.1
18	1	05Z0724	883-12142004-313-018	Floor - random, Pre-Fixative	<0.1
19	3	05Z0724	883-12142004-313-019	Floor - random, Pre-Fixative	<0.1
20	1	05Z0724	883-12142004-313-020	Floor - random, Pre-Fixative	<0.1
21	East Air Tunnel	05D0350	883-12302004-313-021	Floor - random, Post-Fixative (rewipe for # 21, 05Z0723)	<0.1
21	East Air Tunnel	05Z0723	883-12142004-313-021	Floor - random, Pre-Fixative (see # 21 for rewipe, 05D0350)	0.201
22	6	05Z0724	883-12142004-313-022	Floor - random, Pre-Fixative	<0.1
23	West Air Tunnel	05D0258	883-12062004-313-023	Floor - random, Pre-Fixative (see same # post-fix rewipe, 05D0728)	0.78
23	West Air Tunnel	05Z0728	883-12162004-313-023	Floor - random, Post-Fixative (Post-Fix rewipe for 05D0258)	<0.1
24	9	05D0257	883-12062004-313-024	Floor - random, Pre-Fixative	<0.1
25	East Air Tunnel	05D0350	883-12302004-313-025	Floor - random, Post-Fixative	<0.1
25	East Air Tunnel	05Z0723	883-12142004-313-025	Floor - random, Pre-Fixative	<0.1
26	3	05Z0724	883-12142004-313-026	Floor - random, Pre-Fixative	<0.1
27	7	05Z0724	883-12142004-313-027	Floor/Top of Pump Pad - random, Pre-Fixative	<0.1
28	6	05Z0724	883-12142004-313-028	Floor - random, Pre-Fixative	<0.1
29	East Air Tunnel	05D0350	883-12302004-313-029	Floor - random, Post-Fixative (rewipe for # 29, 05Z0723)	<0.1
29	East Air Tunnel	05Z0723	883-12142004-313-029	Floor - random, Pre-Fixative (see # 29 for rewipe, 05D0350	0.173
30	East Air Tunnel	05D0350	883-12302004-313-030	Floor - random, Post-Fixative	<0.1
30	East Air Tunnel	05Z0723	883-12142004-313-030	Floor - random, Pre-Fixative	<0.1
31	8	05Z0724	883-12142004-313-031	Floor - random, Pre-Fixative	<0.1
32	1	05Z0724	883-12142004-313-032	Floor - random, Pre-Fixative	<0.1

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Building 883 Basement
Beryllium Sample Results Table

33	East Air Tunnel	05D0350	883-12302004-313-033	Floor - random, Post-Fixative (rewipe for # 33, 05Z0723)	<0.1
33	East Air Tunnel	05Z0723	883-12142004-313-033	Floor - random, Pre-Fixative (see # 33 for rewipe, 05D0350)	0.16
34	1	05Z0724	883-12142004-313-034	Floor - random, Pre-Fixative	<0.1
35	6	05Z0724	883-12142004-313-035	Floor - random, Pre-Fixative	<0.1
36	3	05Z0724	883-12142004-313-036	Floor - random, Pre-Fixative	<0.1
37	West Air Tunnel	05D0258	883-12062004-313-037	Floor - random, Pre-Fixative (see same # post-fix rewipe, 05D0728)	1.11
37	West Air Tunnel	05Z0728	883-12162004-313-037	Floor - random, Post-Fixative (Post-Fix rewipe for 05D0258)	<0.1
38	3	05Z0724	883-12142004-313-038	Floor - random, Pre-Fixative	<0.1
39	5	05D0257	883-12062004-313-039	Floor - edge of Elevator Pit - random, Pre-Fixative	<0.1
40	5	05D0257	883-12062004-313-040	Floor - random, Pre-Fixative	<0.1
41	1	05Z0724	883-12142004-313-041	Sump Pit Floor - random, Pre-Fixative	<0.1
42	1	05Z0724	883-12142004-313-042	Floor - random, Pre-Fixative	<0.1
43	West Air Tunnel	05D0258	883-12062004-313-043	Floor - random, Pre-Fixative (see same # post-fix rewipe, 05D0728)	0.26
43	West Air Tunnel	05Z0728	883-12162004-313-043	Floor - random, Post-Fixative (Post-Fix rewipe for 05D0258)	<0.1
44	East Air Tunnel	05D0350	883-12302004-313-044	Floor - random, Post-Fixative (rewipe for # 44, 05Z0723)	<0.1
44	East Air Tunnel	05Z0723	883-12142004-313-044	Floor - random, Pre-Fixative (see # 44 for rewipe, 05D0350)	0.168
45	10	05D0257	883-12062004-313-045	Floor - biased, Pre-Fixative	<0.1
46	2 (Elev)	05D0257	883-12062004-313-046	Elevator pit Floor - biased, Pre-Fixative	<0.1
47	4	05D0257	883-12062004-313-047	Floor - biased, Pre-Fixative	<0.1
48	5	05D0257	883-12062004-313-048	Floor - biased, Pre-Fixative	<0.1
49	West Air Tunnel	05D0258	883-12062004-313-049	Floor - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	0.492
49	West Air Tunnel	05Z0728	883-12162004-313-049	Floor - biased, Post-Fixative (Post-Fix rewipe for 05D0258)	<0.1
50	West Air Tunnel	05D0258	883-12062004-313-050	Floor - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	1.2
50	West Air Tunnel	05Z0728	883-12162004-313-050	Floor - biased, Post-Fixative (Post-Fix rewipe for 05D0258)	<0.1
51	West Air Tunnel	05D0258	883-12062004-313-051	Floor - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	1.28
51	West Air Tunnel	05Z0728	883-12162004-313-051	Floor - biased, Post-Fixative (Post-Fix rewipe for 05D0258)	<0.1
52	West Air Tunnel	05D0258	883-12062004-313-052	Floor - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	0.512
52	West Air Tunnel	05Z0728	883-12162004-313-052	Floor - biased, Post-Fixative (Post-Fix rewipe for 05D0258)	<0.1
53	West Air Tunnel	05D0258	883-12062004-313-053	Floor - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	0.609
53	West Air Tunnel	05Z0728	883-12162004-313-053	Floor - biased, Post-Fixative (Post-Fix rewipe for 05D0258)	<0.1
54	West Air Tunnel	05D0258	883-12062004-313-054	Wall - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	0.664
54	West Air Tunnel	05Z0728	883-12162004-313-054	Wall -biased, Post-Fixtive (Post-Fix rewipe for 05D0258)	<0.1
55	West Air Tunnel	05D0258	883-12062004-313-055	Wall - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	1.38
55	West Air Tunnel	05Z0728	883-12162004-313-055	Wall -biased, Post-Fixtive (Post-Fix rewipe for 05D0258)	<0.1

Building 883 Basement
Beryllium Sample Results Table

56	West Air Tunnel	05D0258	883-12062004-313-056	Wall - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	0.499
56	West Air Tunnel	05Z0728	883-12162004-313-056	Wall -biased, Post-Fixtive (Post-Fix rewipe for 05D0258)	<0.1
57	West Air Tunnel	05D0258	883-12062004-313-057	Wall - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	1.58
57	West Air Tunnel	05Z0728	883-12162004-313-057	Wall -biased, Post-Fixtive (Post-Fix rewipe for 05D0258)	<0.1
58	West Air Tunnel	05D0258	883-12062004-313-058	Wall - biased, Pre-Fixative (see same # post-fix rewipe, 05D0728)	0.643
58	West Air Tunnel	05Z0728	883-12162004-313-058	Wall -biased, Post-Fixtive (Post-Fix rewipe for 05D0258)	<0.1
59	East Air Tunnel	05Z0723	883-12142004-313-059	Floor - biased, Pre-Fixative	<0.1
60	East Air Tunnel	05Z0723	883-12142004-313-060	Floor - biased, Pre-Fixative (see # 96 for rewipe, 05D0350)	0.439
61	East Air Tunnel	05Z0723	883-12142004-313-061	Floor - biased, Pre-Fixative (see # 97 for rewipe, 05D0350)	0.596
62	East Air Tunnel	05Z0723	883-12142004-313-062	Wall -biased, Pre-Fixative	<0.1
63	East Air Tunnel	05Z0723	883-12142004-313-063	Wall -biased, Pre-Fixative	<0.1
64	East Air Tunnel	05Z0723	883-12142004-313-064	Wall -biased, Pre-Fixative (see # 100 for rewipe, 05D0350)	0.129
65	East Air Tunnel	05Z0723	883-12142004-313-065	Wall -biased, Pre-Fixative (see # 101 for rewipe, 05D0350)	0.192
66	East Air Tunnel	05Z0723	883-12142004-313-066	Wall -biased, Pre-Fixative (see # 102 for rewipe, 05D0350)	0.216
67	East Air Tunnel	05Z0723	883-12142004-313-067	Wall -biased, Pre-Fixative	<0.1
68	East Air Tunnel	05Z0723	883-12142004-313-068	Wall -biased, Pre-Fixative (see # 104 for rewipe, 05D0350)	0.11
69	East Air Tunnel	05Z0723	883-12142004-313-069	Wall -biased, Pre-Fixative (see # 105 for rewipe, 05D0350)	0.226
70	1	05Z0724	883-12142004-313-070	Floor - biased, Pre-Fixative	<0.1
71	1	05Z0724	883-12142004-313-071	Floor - biased, Pre-Fixative	<0.1
72	1	05Z0724	883-12142004-313-072	Floor - biased, Pre-Fixative	<0.1
73	1	05Z0724	883-12142004-313-073	Floor - biased, Pre-Fixative	<0.1
74	HCA Corridor	05Z0724	883-12142004-313-074	Floor - biased, Pre-Fixative	<0.1
75	HCA Corridor	05Z0724	883-12142004-313-075	Floor - biased, Pre-Fixative	<0.1
76	7	05Z0724	883-12142004-313-076	Floor - biased, Pre-Fixative	<0.1
77	7	05Z0724	883-12142004-313-077	Floor - biased, Pre-Fixative	<0.1
78	3	05Z0724	883-12142004-313-078	Floor - biased, Pre-Fixative	<0.1
79	3	05Z0724	883-12142004-313-079	Wall -biased, Pre-Fixative	<0.1
80	3	05Z0724	883-12142004-313-080	Wall -biased, Pre-Fixative	<0.1
81	3	05Z0724	883-12142004-313-081	Wall -biased, Pre-Fixative	<0.1
82	3	05Z0724	883-12142004-313-082	Wall -biased, Pre-Fixative	<0.1
83	3	05Z0724	883-12142004-313-083	Wall -biased, Pre-Fixative	<0.1
84	7	05Z0724	883-12142004-313-084	Wall -biased, Pre-Fixative	<0.1
85	HCA Corridor	05Z0724	883-12142004-313-085	Wall -biased, Pre-Fixative	<0.1
86	HCA Corridor	05Z0724	883-12142004-313-086	Wall -biased, Pre-Fixative	<0.1
87	1	05Z0724	883-12142004-313-087	Wall -biased, Pre-Fixative	<0.1
88	1	05Z0724	883-12142004-313-088	Wall -biased, Pre-Fixative	<0.1
89	1	05Z0724	883-12142004-313-089	Wall -biased, Pre-Fixative	<0.1
90	1	05Z0724	883-12142004-313-090	Wall -biased, Pre-Fixative	<0.1
91	1	05Z0724	883-12142004-313-091	Wall -biased, Pre-Fixative	<0.1
92	1	05Z0724	883-12142004-313-092	Wall -biased, Pre-Fixative	<0.1
93	6	05Z0724	883-12142004-313-093	Wall -biased, Pre-Fixative	<0.1
94	6	05Z0724	883-12142004-313-094	Wall -biased, Pre-Fixative	<0.1
95	East Air Tunnel	05D0350	883-12302004-313-095	Floor - biased, Post-Fixative	<0.1
96	East Air Tunnel	05D0350	883-12302004-313-096	Floor - biased, Post-Fixative (rewipe for # 60, 05Z0723)	<0.1

Building 883 Basement
Beryllium Sample Results Table

97	East Air Tunnel	05D0350	883-12302004-313-097	Floor - biased, Post-Fixative (rewipe for # 61, 05Z0723)	<0.1
98	East Air Tunnel	05D0350	883-12302004-313-098	Wall - biased, Post-Fixative	<0.1
99	East Air Tunnel	05D0350	883-12302004-313-099	Wall - biased, Post-Fixative	<0.1
100	East Air Tunnel	05D0350	883-12302004-313-100	Wall - biased, Post-Fixative (rewipe for # 64, 05Z0723)	<0.1
101	East Air Tunnel	05D0350	883-12302004-313-101	Wall - biased, Post-Fixative (rewipe for # 65, 05Z0723)	<0.1
102	East Air Tunnel	05D0350	883-12302004-313-102	Wall - biased, Post-Fixative (rewipe for # 66, 05Z0723)	<0.1
103	East Air Tunnel	05D0350	883-12302004-313-103	Wall - biased, Post-Fixative	<0.1
104	East Air Tunnel	05D0350	883-12302004-313-104	Wall - biased, Post-Fixative (rewipe for # 68, 07Z0723)	<0.1
105	East Air Tunnel	05D0350	883-12302004-313-105	Wall - biased, Post-Fixative (rewipe for # 69, 05Z0723)	<0.1

Footnotes:

(1) Shaded rows are beryllium results prior to the application of fixative or final decon. The unshaded rows are the final "as left" condition sample results. Further decon or fixative was applied over all elevated locations as well as extending to the boundaries of clean sample locations surrounding the elevated locations.

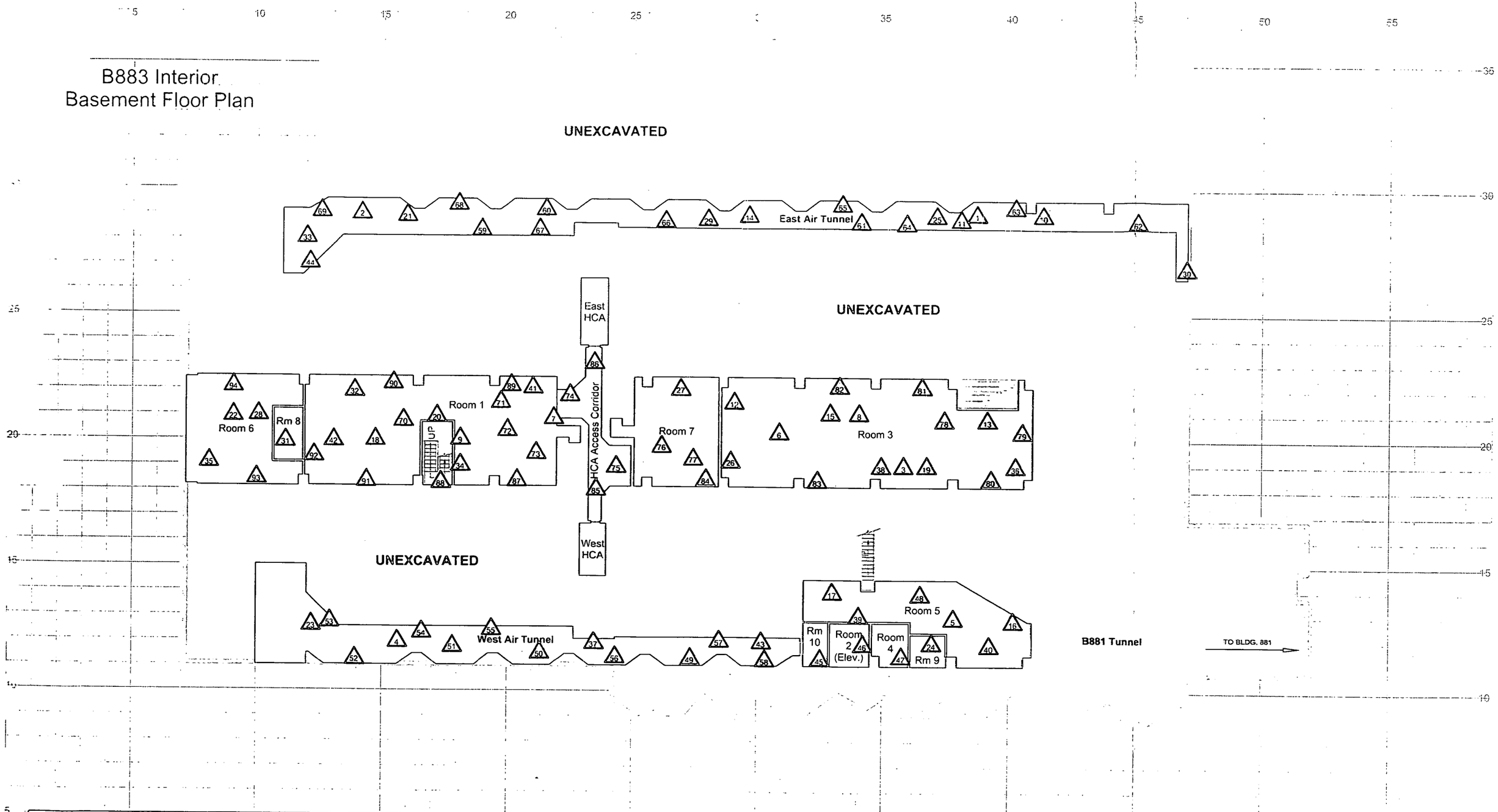
All initial sample locations above 0.1 ug/100cm2 were either further deconned or had fixative applied and were then re-sampled.

Additonal biased post-fixative or post-decon samples were collected in the same general area of the initial elevated sample locations.

All final post-decon or post-fixative swipes were less than the 0.2 ug/100 cm2 beryllium limit and no further investigation sampling is required.

(2) Gaps in the sample numbering sequence are acceptable. Some sample numbers were never used and some were used more than once. Some sample numbers were elevated, then decontaminated, and then resampled using the same initial sample number.

B883 Interior
Basement Floor Plan



CHEMICAL SAMPLE MAP

Building 883 Basement
Beryllium

PAGE 1 OF 1

SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCB Sample Location
- Open/Inaccessible Area
- Area in Shown in Another View

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N

0 FEET 30
0 METERS 10

1 inch = 24 feet 1 grid sq. = 4 sq. m.

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707
Prepared for:

CH2MHILL Communications Group
KAISER-HILL COMPANY

MAP ID: 03-JS/B883_Be_Bmnt
Dec. 27, 2004

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Building 883 1st Floor
Beryllium Sample Results Table

Sample Map Location #	Floor	Room	RIN	Sample Number	Sample Location	Result (ug/100 cm2)
2	1st Floor A-Side	105	05D0384	883-01082005-313-002	Floor - random, Pre-Fixative	<0.1
14	1st Floor A-Side	105	05D0384	883-01082005-313-002	Floor - random, Pre-Fixative	<0.1
15	1st Floor A-Side	105	05D0384	883-01082005-313-014	USI Pit Floor - random, Pre-Fixative	<0.1
17	1st Floor A-Side	105	05D0384	883-01082005-313-015	Floor - random, Pre-Fixative	<0.1
23	1st Floor A-Side	105	05D0384	883-01082005-313-017	Floor - random, Pre-Fixative (see # 365 for rewipe)	0.123
25	1st Floor A-Side	105	05D0384	883-01082005-313-023	Floor - random, Pre-Fixative	<0.1
44	1st Floor A-Side	105	05D0384	883-01082005-313-025	Floor - random, Pre-Fixative	<0.1
50	1st Floor A-Side	105	05D0384	883-01082005-313-044	Floor - random, Pre-Fixative	<0.1
52	1st Floor A-Side	105	05D0384	883-01082005-313-050	Floor - random, Pre-Fixative (see # 366 for rewipe)	0.112
55	1st Floor A-Side	105	05D0384	883-01082005-313-052	Floor - random, Pre-Fixative	<0.1
57	1st Floor A-Side	105	05D0384	883-01082005-313-055	Floor - random, Pre-Fixative (see # 367 for rewipe)	0.172
65	1st Floor A-Side	105	05D0384	883-01082005-313-057	Floor - random, Pre-Fixative	<0.1
72	1st Floor A-Side	105	05D0384	883-01082005-313-065	Floor - random, Pre-Fixative	<0.1
312	1st Floor A-Side	109	05D0384	883-01082005-313-072	Floor - biased, Pre-Fixative	<0.1
313	1st Floor A-Side	109	05D0384	883-01082005-313-312	Floor - biased, Pre-Fixative	<0.1
314	1st Floor A-Side	109	05D0384	883-01082005-313-313	Floor - biased, Pre-Fixative	<0.1
315	1st Floor A-Side	105	05D0384	883-01082005-313-314	Floor - biased, Pre-Fixative (see # 368 for rewipe)	0.1
316	1st Floor A-Side	105	05D0384	883-01082005-313-315	Floor - biased, Pre-Fixative	<0.1
317	1st Floor A-Side	105	05D0384	883-01082005-313-316	Floor - biased, Pre-Fixative	<0.1
318	1st Floor A-Side	105	05D0384	883-01082005-313-317	Floor - biased, Pre-Fixative	<0.1
319	1st Floor A-Side	105	05D0384	883-01082005-313-319	Floor - biased, Pre-Fixative	<0.1
320	1st Floor A-Side	105	05D0384	883-01082005-313-320	Floor - biased, Pre-Fixative	<0.1
321	1st Floor A-Side	105	05D0384	883-01082005-313-321	Floor - biased, Pre-Fixative	<0.1
322	1st Floor A-Side	105	05D0384	883-01082005-313-322	Floor - biased, Pre-Fixative	<0.1
323	1st Floor A-Side	109	05D0384	883-01032005-313-323	Top of Supply Duct - baised, Pre-Fixative (rewipe of #609) (see # 369 for rewipe)	1.47
324	1st Floor A-Side	105	05D0384	883-01082005-313-324	Top of Supply Duct - baised, Pre-Fixative (rewipe of #607)	<0.1
325	1st Floor A-Side	105	05D0384	883-01082005-313-325	Top of Supply Duct - baised, Pre-Fixative (rewipe of #605) (see # 370 for rewipe)	0.289
326	1st Floor A-Side	105	05D0384	883-01082005-313-326	Top of Supply Duct - baised, Pre-Fixative (rewipe of #603)	<0.1
327	1st Floor A-Side	105	05D0384	883-01082005-313-327	Top of Supply Duct - baised, Pre-Fixative (rewipe of #601) (see # 371 for rewipe)	0.108
328	1st Floor A-Side	109	05D0384	883-01082005-313-328	North Wall - biased, Pre-Fixative	<0.1
329	1st Floor A-Side	105	05D0384	883-01082005-313-329	Northeast Wall - biased, Pre-Fixative	<0.1
330	1st Floor A-Side	105	05D0384	883-01082005-313-330	Southeast Wall - biased, Pre-Fixative	<0.1
331	1st Floor A-Side	105	05D0384	883-01082005-313-331	Top of I-Beam, South Wall - biased, Pre-Fixative	<0.1
332	1st Floor A-Side	105	05D0384	883-01082005-313-332	West Wall - biased, Pre-Fixative	<0.1
333	1st Floor A-Side	105	05D0384	883-01082005-313-333	West Wall - biased, Pre-Fixative	<0.1
334	1st Floor A-Side	109	05D0384	883-01082005-313-334	Top of Overhead Door Frame, Northeast - biased, Pre-Fixative	<0.1
335	1st Floor A-Side	105	05D0384	883-01082005-313-335	Top of I-Beam, North East Wall - biased, Pre-Fixative	<0.1
336	1st Floor A-Side	105	05D0384	883-01082005-313-336	Top of I-Beam, East Wall - biased, Pre-Fixative	<0.1
337	1st Floor A-Side	105	05D0384	883-01082005-313-337	Top of Overhead Door Frame, East - biased, Pre-Fixative	<0.1
338	1st Floor A-Side	105	05D0384	883-01082005-313-338	Top of Crane Rail, East - biased, Pre-Fixative	<0.1
339	1st Floor A-Side	105	05D0384	883-01082005-313-339	Top of I-Beam, South West Wall - biased, Pre-Fixative	<0.1
340	1st Floor A-Side	109	05D0384	883-01082005-313-340	HPM Pit, North Wall - biased, Pre-Fixative	<0.1
341	1st Floor A-Side	109	05D0384	883-01082005-313-341	HPM Pit, South Wall - biased, Pre-Fixative (see # 372 for rewipe)	0.103
342	1st Floor A-Side	109	05D0384	883-01082005-313-342	HPM Pit, Floor - biased, Pre-Fixative (see # 373 for rewipe)	0.157

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Building 883 1st Floor
Beryllium Sample Results Table

343	1st Floor A-Side	109	05D0384	883-01082005-313-343	HPM Casting, Southeast Side - biased, Pre-Fixative (see # 374 for rewipe)	0.102
344	1st Floor A-Side	109	05D0384	883-01082005-313-344	HPM Casting Base, Southwest Side - biased, Pre-Fixative	<0.1
345	1st Floor A-Side	109	05D0384	883-01082005-313-345	HPM Casting Base, Northeast Side - biased, Pre-Fixative (see # 375 for rewipe)	0.118
346	1st Floor A-Side	109	05D0384	883-01082005-313-346	Erie Press Pit, East Wall - biased, Pre-Fixative	<0.1
347	1st Floor A-Side	109	05D0384	883-01082005-313-347	Erie Press Pit, Floor - biased, Pre-Fixative (see # 376 for rewipe)	0.104
348	1st Floor A-Side	105	05D0384	883-01082005-313-348	Erie Press Pit, Floor - biased, Pre-Fixative	<0.1
349	1st Floor A-Side	105	05D0384	883-01082005-313-349	Loewy Roller Pit, North, floor - biased, Pre-Fixative	<0.1
350	1st Floor A-Side	105	05D0384	883-01082005-313-350	Loewy Roller Pit, North, Wall - biased, Pre-Fixative	<0.1
351	1st Floor A-Side	105	05D0384	883-01082005-313-351	Loewy Roller Pit, South, Floor - biased, Pre-Fixatie	<0.1
352	1st Floor A-Side	105	05D0384	883-01082005-313-352	Loewy Roller Pit, South, Wall - biased, Pre-Fixative	<0.1
353	1st Floor A-Side	105	05D0384	883-01082005-313-353	Loewy Pit Floor, Central - biased, Pre-Fixative	<0.1
354	1st Floor A-Side	105	05D0384	883-01082005-313-354	Loewy Casting Base, Southeast - biased, Pre-Fixative	<0.1
355	1st Floor A-Side	105	05D0384	883-01082005-313-355	Loewy Casting Base, Northwest - biased, Pre-Fixative	<0.1
356	1st Floor A-Side	105	05D0384	883-01082005-313-356	Salt Bath Pit, Wall - biased, Pre-Fixtive	<0.1
357	1st Floor A-Side	105	05D0384	883-01082005-313-357	Salt Bath Pit, Floor - biased, Pre-Fixative	<0.1
358	1st Floor A-Side	105	05D0384	883-01082005-313-358	USI Pit, Floor - biased, Pre-Fixative	<0.1
359	1st Floor A-Side	105	05D0384	883-01082005-313-359	USI Pit, South Wall - biased, Pre-Fixative	<0.1
360	1st Floor A-Side	105	05D0384	883-01082005-313-360	USI Pit, North Wall - biased, Pre-Fixative	<0.1
363	1st Floor A-side	105	05D0461	883-01102005-313-363	Floor of Operators Cab, Bridge Crane, South End of 105- biased, Pre-Fixative	<0.1
364	1st Floor A-side	105	05D0461	883-01102005-313-364	Top of Crane Bridge Rail, South End of 105 - biased, Pre-Fixative	<0.1
365	1st Floor A-side	105	05D0462	883-01132005-313-365	Floor - biased, Post-Fixative (rewipe for # 23)	<0.1
366	1st Floor A-side	105	05D0462	883-01132005-313-366	Floor - biased, Post-Fixative (rewipe for # 52)	<0.1
367	1st Floor A-side	105	05D0462	883-01132005-313-367	Floor - biased, Post-Fixative (rewipe for # 57)	<0.1
368	1st Floor A-side	105	05D0462	883-01132005-313-368	Floor - biased, Post-Fixative (rewipe for # 315)	<0.1
369	1st Floor A-side	105	05D0462	883-01132005-313-369	Top of Supply Duct, North End - biased, Post-Fixative (rewipe for # 323)	<0.1
370	1st Floor A-side	105	05D0462	883-01132005-313-370	Top of Supply Duct, Central - biased, Post-Fixative (rewipe for # 325)	<0.1
371	1st Floor A-side	105	05D0462	883-01132005-313-371	Top of Supply Duct, South End - biased, Post-Fixative (rewipe for # 327)	<0.1
372	1st Floor A-Side	109	05D0462	883-01132005-313-372	HPM Pit, South Wall - biased, Post-Fixative (rewipe for # 341)	<0.1
373	1st Floor A-side	109	05D0462	883-01132005-313-373	HPM Pit, Floor - biased, Post-Fixative (rewipe for # 342)	<0.1
374	1st Floor A-side	109	05D0462	883-01132005-313-374	HPM Casting, SE Side - biased, Post-Fixative (rewipe for # 343)	<0.1
375	1st Floor A-side	109	05D0462	883-01132005-313-375	HPM Base, NE Corner - biased, Post-Fixative (rewipe for # 345)	<0.1
376	1st Floor A-side	109	05D0462	883-01132005-313-376	Erie Press Pit, Floor N-Central - biased, Post-Fixative (rewipe for # 347)	<0.1
601	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-001	Outer top of supply duct - biased, Pre-Fixative (see # 327 for rewipe)	1.0
602	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-002	Supply Duct, inside diffuser - biased, Pre-Fixative	<0.1
603	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-003	Outer top of supply duct - biased, Pre-Fixative	<0.1

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Building 883 1st Floor
Beryllium Sample Results Table

604	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-004	Supply Duct, inside diffuser - biased, Pre-Fixative	<0.1
605	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-005	Outer top of supply duct - biased, Pre-Fixative (see # 325 for rewipe)	0.299
606	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-006	Supply Duct, inside diffuser - biased, Pre-Fixative (diffuser removed, no rewipe)	0.129
607	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-007	Outer top of supply duct - biased, Pre-Fixative (see # 324 for rewipe)	0.216
608	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-008	Supply Duct, inside diffuser - biased, Pre-Fixative	<0.1
609	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-009	Outer top of supply duct - biased, Pre-Fixative (see # 323 for rewipe)	2.12
610	1st Floor A-side Supply Ducts	105	05Z0268	883-10262004-313-010	Supply Duct, inside diffuser - biased, Pre-Fixative	<0.1
4	1st Floor B-Side	102	05D0256	883-12052004-313-004	Floor - random, Pre-Fixative	<0.1
5	1st Floor B-Side	112	05D0256	883-12052004-313-005	Floor - random, Pre-Fixative	<0.1
13	1st Floor B-Side	102	05D0256	883-12052004-313-013	Floor - random, Pre-Fixative	<0.1
30	1st Floor B-Side	112	05Z0575	883-11232004-313-030	Floor - random, Pre-Fixative	<0.1
40	1st Floor B-Side	112	05D0256	883-12052004-313-040	Floor - random, Pre-Fixative	<0.1
42	1st Floor B-Side	112	05D0256	883-12052004-313-042	Floor - random, Pre-Fixative	<0.1
58	1st Floor B-Side	112	05D0256	883-12052004-313-058	Floor - random, Pre-Fixative	<0.1
62	1st Floor B-Side	112	05Z0575	883-11232004-313-062	Floor - random, Pre-Fixative	<0.1
67	1st Floor B-Side	112	05Z0575	883-11232004-313-067	Floor - random, Pre-Fixative	<0.1
68	1st Floor B-Side	112	05Z0575	883-11232004-313-068	Floor - random, Pre-Fixative (see # 's 165-169 for rewipes)	0.21
71	1st Floor B-Side	112	05D0256	883-12052004-313-071	Floor - random, Pre-Fixative	<0.1
74	1st Floor B-Side	112	05D0256	883-12052004-313-074	Floor - random, Pre-Fixative	<0.1
136	1st Floor B-Side	112	05Z0575	883-11232004-313-136	Floor - biased, Pre-Fixative	<0.1
137	1st Floor B-Side	112	05Z0575	883-11232004-313-137	Floor - biased, Pre-Fixative	<0.1
138	1st Floor B-Side	112	05Z0575	883-11232004-313-138	Floor - biased, Pre-Fixative	<0.1
139	1st Floor B-Side	112	05Z0575	883-11232004-313-139	Top of orange crane rail - biased, Pre-Fixative	<0.1
140	1st Floor B-Side	112	05Z0575	883-11232004-313-140	Gray structure upper wall - biased, Pre-Fixative (see # 207 for rewipe)	0.14
141	1st Floor B-Side	112	05Z0575	883-11232004-313-141	Gray structural, upper platform-crane access, upper wall - biased, Pre-Fixative	<0.1
142	1st Floor B-Side	112	05Z0575	883-11232004-313-142	Gray structural upper wall - biased, Pre-Fixative	<0.1
143	1st Floor B-Side	112	05Z0575	883-11232004-313-143	Gray structural, cross brace, upper wall - biased, Pre-Fixative	<0.1
144	1st Floor B-Side	112	05Z0575	883-11232004-313-144	Gray structural upper wall - biased, Pre-Fixative	<0.1
145	1st Floor B-Side	112	05Z0575	883-11232004-313-145	Top of rail - biased, Pre-Fixative (see # 231 for rewipe)	0.14
146	1st Floor B-Side	112	05Z0575	883-11232004-313-146	Top of supply duct, furthest 2nd from S. Duct - biased, Pre-Fixative	<0.1
147	1st Floor B-Side	112	05Z0575	883-11232004-313-147	Top of supply duct, furthest 3rd from S. Duct - biased, Pre-Fixative	<0.1
148	1st Floor B-Side	112	05Z0575	883-11232004-313-148	Gray structure below ceiling - biased, Pre-Fixative	<0.1
149	1st Floor B-Side	112	05Z0575	883-11232004-313-149	Gray structure below ceiling - biased, Pre-Fixative	<0.1
150	1st Floor B-Side	112	05Z0575	883-11232004-313-150	Gray structure below ceiling - biased, Pre-Fixative (see # 235 for rewipe)	0.11
151	1st Floor B-Side	112	05Z0575	883-11232004-313-151	Gray structure below ceiling - biased, Pre-Fixative (see # 221 for rewipe)	0.17
165	1st Floor B-Side	112	05D0255	883-12052004-313-165	Floor - biased, Pre-Fixative (Rewipe for #68)	<0.1
166	1st Floor B-Side	112	05D0255	883-12052004-313-166	Floor - biased, Pre-Fixative (Rewipe for #68)	<0.1
167	1st Floor B-Side	112	05D0255	883-12052004-313-167	Floor - biased, Pre-Fixative (Rewipe for #68)	<0.1
168	1st Floor B-Side	112	05D0255	883-12052004-313-168	Floor - biased, Pre-Fixative (Rewipe for #68)	<0.1
169	1st Floor B-Side	112	05D0255	883-12052004-313-169	Floor - biased, Pre-Fixative (Rewipe for #68)	<0.1
170	1st Floor B-Side	112	05D0256	883-12052004-313-170	Floor - biased, Pre-Fixative	<0.1
171	1st Floor B-Side	112	05D0256	883-12052004-313-171	Floor - biased, Pre-Fixative	<0.1
172	1st Floor B-Side	112	05D0256	883-12052004-313-172	Floor - biased, Pre-Fixative	<0.1
173	1st Floor B-Side	112	05D0256	883-12052004-313-173	Floor - biased, Pre-Fixative	<0.1

Building 883 1st Floor
Beryllium Sample Results Table

174	1st Floor B-Side	112	05D0256	883-12052004-313-174	Floor - biased, Pre-Fixative	<0.1
175	1st Floor B-Side	112	05D0256	883-12052004-313-175	Floor - biased, Pre-Fixative	<0.1
176	1st Floor B-Side	102	05D0256	883-12052004-313-176	Floor - biased, Pre-Fixative	<0.1
177	1st Floor B-Side	112	05D0256	883-12052004-313-177	Floor - biased, Pre-Fixative	<0.1
178	1st Floor B-Side	112	05D0256	883-12052004-313-178	Former Salt Bath, Floor - biased, Pre-Fixative	<0.1
179	1st Floor B-Side	112	05D0256	883-12052004-313-179	Loewy Pit, North Floor - biased, Pre-Fixative	<0.1
180	1st Floor B-Side	112	05D0256	883-12052004-313-180	Loewy Pit, West Floor - biased, Pre-Fixative	<0.1
181	1st Floor B-Side	112	05D0256	883-12052004-313-181	Loewy Pit, West Wall SW Corner - biased, Pre-Fixative	<0.1
182	1st Floor B-Side	112	05D0256	883-12052004-313-182	Loewy Pit. East Wall SW Corner - biased, Pre-Fixative	<0.1
183	1st Floor B-Side	112	05D0256	883-12052004-313-183	Loewy Pit, Floor West Central - biased, Pre-Fixative	<0.1
184	1st Floor B-Side	112	05D0256	883-12052004-313-184	Loewy Pit, Floor East Central - biased, Pre-Fixative	<0.1
185	1st Floor B-Side	112	05D0256	883-12052004-313-185	Loewy Pit, Floor East Lower Access - biased, Pre-Fixative	<0.1
186	1st Floor B-Side	112	05D0256	883-12052004-313-186	Loewy Casting, Base North - biased, Pre-Fixative	<0.1
187	1st Floor B-Side	112	05D0256	883-12052004-313-187	Loewy Casting Base West Central - biased, Pre-Fixative	<0.1
188	1st Floor B-Side	112	05D0256	883-12052004-313-188	Loewy Casting Base South - biased, Pre-Fixative	<0.1
189	1st Floor B-Side	112	05D0256	883-12052004-313-189	Loewy Casting Base SE Corner - biased, Pre-Fixative	<0.1
190	1st Floor B-Side	112	05D0256	883-12052004-313-190	Loewy Casting Base NW Corner - biased, Pre-Fixative (see # 's 266-269 for rewipes)	0.112
191	1st Floor B-Side	112	05D0256	883-12052004-313-191	Loewy Casting, Top Support Beam NE Corner - biased, Pre-Fixative (see # 's 270-273 for rewipes)	0.116
192	1st Floor B-Side	112	05D0256	883-12052004-313-192	Loewy Casting, Gearbox Base West - biased Pre-Fixative	<0.1
193	1st Floor B-Side	112	05D0256	883-12052004-313-193	Loewy Casting Floor Pipe Chase - biased, Pre-Fixative (see # 's 249-252 for rewipes)	0.687
194	1st Floor B-Side	102	05D0256	883-12052004-313-194	HPM Pit, Floor NW - biased, Pre-Fixative (see # 's 258-261 for rewipes)	0.183
195	1st Floor B-Side	102	05D0256	883-12052004-313-195	HPM Pit, Floor SW - biased, Pre-Fixative (see # 's 262-265 for rewipes)	0.161
196	1st Floor B-Side	102	05D0256	883-12052004-313-196	HPM Pit, South Wall - biased, Pre-Fixative	<0.1
197	1st Floor B-Side	102	05D0256	883-12052004-313-197	HPM Pit, East Wall - biased, Pre-Fixative	<0.1
198	1st Floor B-Side	102	05D0256	883-12052004-313-198	HPM Pit, North Wall - biased, Pre-Fixative	<0.1
199	1st Floor B-Side	102	05D0256	883-12052004-313-199	HPM Pit, West Wall - biased, Pre-Fixative (see # 's 245-248 for rewipes)	0.234
200	1st Floor B-Side	102	05D0256	883-12052004-313-200	HPM Casting, Base SW Corner - biased, Pre-Fixative	<0.1
201	1st Floor B-Side	102	05D0256	883-12052004-313-201	HPM Casting, Vertical NW Corner - biased, Pre-Fixative	<0.1
202	1st Floor B-Side	102	05D0256	883-12052004-313-202	HPM Casting, Vertical SE Corner - biased, Pre-Fixative	<0.1
203	1st Floor B-Side	102	05D0256	883-12052004-313-203	HPM Casting, Horizontal Ledge West Side - biased, Pre-Fixative	<0.1
204	1st Floor B-Side	102	05D0256	883-12052004-313-204	HPM Casting, Casting Top West - biased, Pre-Fixative	<0.1
205	1st Floor B-Side	102	05D0256	883-12052004-313-205	HPM Casting, Casting Top East - biased, Pre-Fixative	<0.1
206	1st Floor B-Side	112	05D0256	883-12052004-313-206	Concrete Block Wall, Interior, North Elevator Wall - biased, Pre-Fixative	<0.1
207	1st Floor B-Side	112	05D0256	883-12052004-313-207	Corrugated CAB Wall and Metal, Upper, Interior - biased, Pre-Fixative	<0.1
208	1st Floor B-Side	112	05D0256	883-12052004-313-208	Corrugated CAB, Upper Wall - biased, Pre-Fixative	<0.1
209	1st Floor B-Side	112	05D0256	883-12052004-313-209	Corrugated CAB, Upper Wall - biased, Pre-Fixative	<0.1

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210	1st Floor B-Side	112	05D0256	883-12052004-313-210	Corrugated CAB, Upper Wall - biased, Pre-Fixative	<0.1
211	1st Floor B-Side	102	05D0256	883-12052004-313-211	Corrugated CAB, Upper Wall - biased, Pre-Fixative	<0.1
212	1st Floor B-Side	112	05D0256	883-12052004-313-212	Corrugated CAB, Lower Wall - biased, Pre-Fixative	<0.1
213	1st Floor B-Side	112	05D0256	883-12052004-313-213	Corrugated CAB, Lower Wall - biased, Pre-Fixative	<0.1
214	1st Floor B-Side	112	05D0256	883-12052004-313-214	Corrugated CAB, Lower Wall - biased, Pre-Fixative	<0.1
215	1st Floor B-Side	112	05D0256	883-12052004-313-215	Corrugated CAB, Lower Wall - biased, Pre-Fixative	<0.1
216	1st Floor B-Side	112	05D0256	883-12052004-313-216	Corrugated CAB, Lower Wall - biased, Pre-Fixative	<0.1
217	1st Floor B-Side	102	05D0256	883-12052004-313-217	Corrugated CAB, Lower Wall - biased, Pre-Fixative	<0.1
218	1st Floor B-Side	102	05D0256	883-12052004-313-218	Concrete Block Wall, North Wall Central - biased, Pre-Fixatve	<0.1
219	1st Floor B-Side	112	05D0256	883-12052004-313-219	Concrete Block Wall, East Wall Central - biased, Pre-Fixative	<0.1
220	1st Floor B-Side	112	05D0256	883-12052004-313-220	Concrete Block Wall, East Wall North Central - biased, Pre-Fixative	<0.1
221	1st Floor B-Side	112	05D0256	883-12052004-313-221	Steel Structure and Concrete Block, East Wall, South Central - biased, Pre-Fixative	<0.1
222	1st Floor B-Side	112	05D0256	883-12052004-313-222	Concrete Block Wall, East Wall South - biased, Pre-Fixative	<0.1
223	1st Floor B-Side	112	05D0256	883-12052004-313-223	Concrete Block Wall, South Wall Central - biased, Pre-Fixative	<0.1
224	1st Floor B-Side	102	05D0256	883-12052004-313-224	Top of Supply Duct, North End - biased, Pre-Fixative (rewipe for # 614)	<0.1
225	1st Floor B-Side	112	05D0256	883-12052004-313-225	Top of Supply Duct, North Central - biased, Pre-Fixative	<0.1
226	1st Floor B-Side	112	05D0256	883-12052004-313-226	Gray Angle Iron, Upper Chord - biased, Pre-Fixative	<0.1
227	1st Floor B-Side	112	05D0256	883-12052004-313-227	Gray Angle Iron, Lower Chord - biased, Pre-Fixative	<0.1
228	1st Floor B-Side	112	05D0256	883-12052004-313-228	Gray Angle Iron, Lower Chord - biased, Pre-Fixative	<0.1
229	1st Floor B-Side	112	05D0256	883-12052004-313-229	Top of Lower Truss - biased, Pre-Fixative	<0.1
230	1st Floor B-Side	112	05D0256	883-12052004-313-230	Top of Orange Crane Rail West, Central - biased, Pre-Fixative	<0.1
231	1st Floor B-Side	112	05D0256	883-12052004-313-231	Top of Orange Crane Rail East, Central - biased, Pre-Fixative (rewipe of # 145)	<0.1
232	1st Floor B-Side	112	05D0256	883-12052004-313-232	Floor of Crane Operator Cab - biased, Pre-Fixative	<0.1
233	1st Floor B-Side	112	05D0256	883-12052004-313-233	Top of Crane Bridge Central - biased, Pre-Fixative	<0.1
234	1st Floor B-Side	112	05D0256	883-12052004-313-234	Gray Angle Iron, Lower Chord - biased, Pre-Fixative	<0.1
235	1st Floor B-Side	112	05D0256	883-12052004-313-235	Gray Angle Iron, Upper Chord - biased, Pre-Fixative	<0.1
241	1st Floor B-Side	112	05D0297	883-12112004-313-241	Pipe chase floor NE of Loewy - biased, Pre-Fixative (failed rewipe for # 193, see # 249)	0.225
242	1st Floor B-Side	112	05D0297	883-12112004-313-242	Pipe chase floor NE of Loewy - biased, Pre-Fixative (failed rewipe for # 193, see # 250)	0.125
243	1st Floor B-Side	112	05D0297	883-12112004-313-243	Pipe chase floor NE of Loewy - biased, Pre fixative (failed rewipe for # 193, see # 251)	0.318
244	1st Floor B-Side	112	05D0297	883-12112004-313-244	Pipe chase floor NE of Loewy - biased, Pre-Fixative (failed rewipe for # 193, see # 252)	0.171
245	1st Floor B-Side	102	05D0297	883-12112004-313-245	HPM Pit Wall - biased, Post-Fixative (rewipe for # 199)	<0.1
246	1st Floor B-Side	102	05D0297	883-12112004-313-246	HPM Pit Wall - biased, Post-Fixative (rewipe for # 199)	<0.1
247	1st Floor B-Side	102	05D0297	883-12112004-313-247	HPM Pit Wall - biased, Post-Fixative (rewipe for # 199)	<0.1

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248	1st Floor B-Side	102	05D0297	883-12112004-313-248	HPM Pit Wall - biased, Post-Fixative (rewipe for # 199)	<0.1
249	1st Floor B-Side	112	05Z0725	883-12162004-313-249	Pipe chase floor NE of Loewy - biased, Post-Fixative (rewipe for # 193/241)	<0.1
250	1st Floor B-Side	112	05Z0725	883-12162004-313-250	Pipe chase floor NE of Loewy - biased, Post-Fixative (rewipe for # 193/242)	<0.1
251	1st Floor B-Side	112	05Z0725	883-12162004-313-251	Pipe chase floor NE of Loewy - biased, Post-Fixative (rewipe for # 193/243)	<0.1
252	1st Floor B-Side	112	05Z0725	883-12162004-313-252	Pipe chase floor NE of Loewy - biased, Post-Fixative (rewipe for # 193/244)	<0.1
258	1st Floor B-Side	112	05D0325	883-12182004-313-258	HPM Pit Floor NW, North side - biased, Post-Fixative (rewipe for # 194)	<0.1
259	1st Floor B-Side	112	05D0325	883-12182004-313-259	HPM Pit Floor NW, East side - biased, Post-Fixative (rewipe for # 194)	<0.1
260	1st Floor B-Side	112	05D0325	883-12182004-313-260	HPM Pit Floor NW, South side - biased, Post-Fixative (rewipe # 194)	<0.1
261	1st Floor B-Side	112	05D0325	883-12182004-313-261	HPM Pit Floor NW, West side - biased, Post-Fixative (rewipe for # 194)	<0.1
262	1st Floor B-Side	112	05D0325	883-12182004-313-262	HPM Pit Floor SW, North side - biased, Post-Fixative (rewipe for # 195)	<0.1
263	1st Floor B-Side	112	05D0325	883-12182004-313-263	HPM Pit Floor SW, East side - biased, Post-Fixative (rewipe for # 195)	<0.1
264	1st Floor B-Side	112	05D0325	883-12182004-313-264	HPM Pit Floor SW, South side - biased, Post-Fixative (rewipe for # 195)	<0.1
265	1st Floor B-Side	112	05D0325	883-12182004-313-265	HPM Pit Floor SW, West side - biased, Post-Fixative (rewipe for # 195)	<0.1
266	1st Floor B-Side	112	05D0325	883-12182004-313-266	Loewy NW Corner, North Side - biased, Post-Fixative (rewipe for # 190)	<0.1
267	1st Floor B-Side	112	05D0325	883-12182004-313-267	Loewy NW Corner, East Side - biased, Post-Fixative (rewipe for # 190)	<0.1
268	1st Floor B-Side	112	05D0325	883-12182004-313-268	Loewy NW Corner, South Side - biased, Post-Fixative (rewipe for # 190)	<0.1
269	1st Floor B-Side	112	05D0325	883-12182004-313-269	Loewy NW Corner, West Side - biased, Post-Fixative (rewipe for # 190)	<0.1
270	1st Floor B-Side	112	05D0325	883-12182004-313-270	Loewy Beam Top, West - biased, Post-Fixative (rewipe for # 191)	<0.1
271	1st Floor B-Side	112	05D0325	883-12182004-313-271	Loewy Beam Top, Mid West - biased, Post-Fixative (rewipe for # 191)	<0.1
272	1st Floor B-Side	112	05D0325	883-12182004-313-272	Loewy Beam Top, Mid East - biased, Post-Fixative (see rewipe # 191)	<0.1
273	1st Floor B-Side	112	05D0325	883-12182004-313-273	Loewy Beam Top, East - biased, Post-Fixative (rewipe for # 191)	<0.1
611	1st Floor B-side Supply Ducts	112	05Z0205	883-10182004-313-001	Outer top of supply duct - biased, Pre-Fixative	<0.1
612	1st Floor B-side Supply Ducts	112	05Z0205	883-10182004-313-002	Outer top of supply duct - biased, Pre-Fixative	<0.1
613	1st Floor B-side Supply Ducts	112	05Z0205	883-10182004-313-003	Outer top of supply duct - biased, Pre-Fixative	<0.1
614	1st Floor B-side Supply Ducts	112	05Z0205	883-10182004-313-004	Outer top of supply duct - biased, Pre-Fixative (see # 224 for rewipe)	0.32
615	1st Floor B-side Supply Ducts	112	05Z0205	883-10182004-313-005	Supply Duct, inside diffuser - biased, Pre-Fixative	<0.1
616	1st Floor B-side Supply Ducts	112	05Z0205	883-10182004-313-006	Supply Duct, inside diffuser - biased, Pre-Fixative	<0.1
617	1st Floor B-side Supply Ducts	112	05Z0205	883-10182004-313-007	Supply Duct, inside diffuser - biased, Pre-Fixative	<0.1
618	1st Floor B-side Supply Ducts	112	05Z0205	883-10182004-313-008	Supply Duct, inside diffuser - biased, Pre-Fixative	<0.1
11	1st Floor Central	111	05Z0336	883-12202004-313-011	Floor - random, Pre-Fixative	<0.1
27	1st Floor Central	111	05Z0336	883-12202004-313-027	Floor - random, Pre-Fixative	<0.1
33	1st Floor Central	111	05Z0336	883-12202004-313-033	Floor - random, Pre-Fixative	<0.1
34	1st Floor Central	110	05Z0746	883-12212004-26-034	Floor - random, Pre-Fixative	<0.1
35	1st Floor Central	110	05Z0746	883-12212004-26-035	Floor - random, Pre-Fixative	<0.1
37	1st Floor Central	111	05Z0336	883-12202004-313-037	Floor - random, Pre-Fixative	<0.1
56	1st Floor Central	111	05Z0336	883-12202004-313-056	Floor - random, Pre-Fixative	<0.1

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66	1st Floor Central	111	05Z0336	883-12202004-313-066	Floor - random, Pre-Fixative	<0.1
69	1st Floor Central	110	05Z0746	883-12212004-26-069	Floor - random, Pre-Fixative	<0.1
75	1st Floor Central	111	05Z0336	883-12202004-313-075	Floor - random, Pre-Fixative	<0.1
134	1st Floor Central	144	05Z0117	883-10042004-313-134	Top of gray iron beam - biased, Pre-Fixative	<0.1
135	1st Floor Central	144	05Z0117	883-10042004-313-135	Top of door frame - biased, Pre-Fixative	<0.1
274	1st Floor Central	111	05Z0336	883-12202004-313-274	Floor - biased, Pre-Fixative	<0.1
275	1st Floor Central	111	05Z0336	883-12202004-313-275	Floor - biased, Pre-Fixative	<0.1
276	1st Floor Central	111	05Z0336	883-12202004-313-276	Floor - biased, Pre-Fixative	<0.1
277	1st Floor Central	111	05Z0336	883-12202004-313-277	Floor - biased, Pre-Fixative	<0.1
278	1st Floor Central	111	05Z0336	883-12202004-313-278	Top of Electrical Box, Wall - biased, Pre-Fixative	<0.1
279	1st Floor Central	111	05Z0336	883-12202004-313-279	Top of Structural Stell, Wall Bracing - biased, Pre-Fixative (see # 292 for rewipe)	0.125
280	1st Floor Central	111	05Z0336	883-12202004-313-280	Top of Structural Stell, Wall Bracing - biased, Pre-Fixative	<0.1
281	1st Floor Central	111	05Z0336	883-12202004-313-281	Top of Structural Stell, Wall Bracing - biased, Pre-Fixative	<0.1
282	1st Floor Central	111	05Z0336	883-12202004-313-282	Top of Supply Duct - biased, Pre-Fixative	<0.1
283	1st Floor Central	111	05Z0336	883-12202004-313-283	Top of Supply Duct - biased, Pre-Fixative	<0.1
284	1st Floor Central	111	05Z0336	883-12202004-313-284	Top of Supply Duct - biased, Pre-Fixative	<0.1
285	1st Floor Central	110	05Z0746	883-12212004-26-285	Floor - biased, Pre-Fixative	<0.1
286	1st Floor Central	110	05Z0746	883-12212004-26-286	Floor - biased, Pre-Fixative	<0.1
287	1st Floor Central	110	05Z0746	883-12212004-26-287	Floor - biased, Pre-Fixative	<0.1
288	1st Floor Central	110	05Z0746	883-12212004-26-288	Top of Upper I-Beam - biased, Pre-Fixative (see # 293 for rewipe)	0.227
289	1st Floor Central	110	05Z0746	883-12212004-26-289	Top of Upper I-Beam - biased, Pre-Fixative	<0.1
290	1st Floor Central	110	05Z0746	883-12212004-26-290	Top fo Upper I-Beam - biased, Pre-Fixative	<0.1
292	1st Floor Central	111	05D0349	883-12202004-313-292	Top Of Structural Steel, East Wall - biased, Post Fixative (rewipe for # 279)	<0.1
293	1st Floor Central	110	05D0349	883-12202004-313-293	Top Of I-Beam, Steel, East Wall - biased, Post Fixative (rewipe for # 288)	<0.1
361	1st Floor Central	124	05D0461	883-01102005-313-361	Floor - biased, Pre-Fixative	<0.1
362	1st Floor Central	125	05D0461	883-01102005-313-362	Floor - biased, Pre-Fixative	<0.1
1	1st Floor C-Side	138	05Z0115	883-09032004-313-001	C-side, Floor by platform - random, Pre-Fixative	<0.1
10	1st Floor C-Side	139	05Z0115	883-09032004-313-010	C-side, Floor - random, Pre-Fixative	<0.1
12	1st Floor C-Side	138	05Z0115	883-09032004-313-012	C-side, Floor - random, Pre-Fixative	<0.1
16	1st Floor C-Side	139	05Z0115	883-09032004-313-016	C-side, Floor, plenum - random, Pre-Fixative	<0.1
18	1st Floor C-Side	138	05Z0115	883-09032004-313-018	C-side, Floor - random, Pre-Fixative	<0.1
24	1st Floor C-Side	138	05Z0115	883-09032004-313-024	C-side, Floor - random, Pre-Fixative	<0.1
38	1st Floor C-Side	138	05Z0115	883-09032004-313-038	C-side, Floor - random, Pre-Fixative	<0.1
45	1st Floor C-Side	138	05Z0115	883-09032004-313-045	C-side, Floor - random, Pre-Fixative	<0.1
53	1st Floor C-Side	139	05Z0115	883-09032004-313-053	C-side, Floor, plenum - random, Pre-Fixative	<0.1
60	1st Floor C-Side	139	05Z0115	883-09032004-313-060	C-side, Floor, plenum - random, Pre-Fixative	<0.1
73	1st Floor C-Side	138	05Z0115	883-09032004-313-073	C-side, Floor - random, Pre-Fixative	<0.1
91	1st Floor C-Side	138	05Z0115	883-09032004-313-091	C-side, Floor - biased, Pre-Fixative	<0.1
92	1st Floor C-Side	138	05Z0115	883-09032004-313-092	C-side, Floor - biased, Pre-Fixative	<0.1
93	1st Floor C-Side	138A	05Z0115	883-09032004-313-093	C-side, Floor - biased, Pre-Fixative	<0.1
94	1st Floor C-Side	138A	05Z0115	883-09032004-313-094	C-side, Floor - biased, Pre-Fixative	<0.1
95	1st Floor C-Side	138A	05Z0115	883-09032004-313-095	C-side, Floor - biased, Pre-Fixative	<0.1
96	1st Floor C-Side	138	05Z0115	883-09032004-313-096	C-side, Floor - biased, Pre-Fixative	<0.1
97	1st Floor C-Side	138	05Z0115	883-09032004-313-097	C-side, Floor - biased, Pre-Fixative	<0.1
98	1st Floor C-Side	139	05Z0115	883-09032004-313-098	C-side, Floor - biased, Pre-Fixative	<0.1
99	1st Floor C-Side	139	05Z0115	883-09032004-313-099	C-side, Floor - biased, Pre-Fixative	<0.1
100	1st Floor C-Side	139 Pit	05Z0115	883-09032004-313-100	C-side, Pit Floor - biased, Pre-Fixative	<0.1
101	1st Floor C-Side	139 Pit	05Z0115	883-09032004-313-101	C-side, Pit Floor - biased, Pre-Fixative	<0.1
102	1st Floor C-Side	139 plenum	05Z0115	883-09032004-313-102	C-side, Floor - biased, Pre-Fixative	<0.1
103	1st Floor C-Side	139 plenum	05Z0115	883-09032004-313-103	C-side, Top of plenum - biased, Pre-Fixative	< 0.1
104	1st Floor C-Side	139 plenum	05Z0115	883-09032004-313-104	C-side, Top of plenum - biased, Pre-Fixative	<0.1
105	1st Floor C-Side	139 plenum	05Z0115	883-09032004-313-105	C-side, Top of I-beam - biased, Pre-Fixative	<0.1

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106	1st Floor C-Side	139 plenum	05Z0115	883-09032004-313-106	C-side, Top of air duct - biased, Pre-Fixative	<0.1
107	1st Floor C-Side	138	05Z0115	883-09032004-313-107	C-side, Top of I-beam - biased, Pre-Fixative	<0.1
108	1st Floor C-Side	138	05Z0115	883-09032004-313-108	C-side, Top of I-beam - biased, Pre-Fixative	<0.1
109	1st Floor C-Side	138	05Z0115	883-09032004-313-109	C-side, Top of I-beam - biased, Pre-Fixative	<0.1
110	1st Floor C-Side	138A	05Z0115	883-09032004-313-110	C-side, Top of I-beam - biased, Pre-Fixative	<0.1
111	1st Floor C-Side	138A	05Z0115	883-09032004-313-111	C-side, Top of I-beam - biased, Pre-Fixative	<0.1
112	1st Floor C-Side	138A	05Z0115	883-09032004-313-112	C-side, Top of yellow beam - biased, Pre-Fixative	<0.1
113	1st Floor C-Side	138	05Z0115	883-09032004-313-113	C-side, Top of I-beam - biased, Pre-Fixative	<0.1
114	1st Floor C-Side	138	05Z0115	883-09032004-313-114	C-side, Top of I-beam - biased, Pre-Fixative	<0.1
115	1st Floor C-Side	138	05Z0115	883-09032004-313-115	C-side, Dock pit - biased, Pre-Fixative	<0.1
401	1st Floor C-Side	301	04Z1531	883-03272004-313-001	Plenum 1st stage floor - biased, Pre-Fixative	<0.1
402	1st Floor C-Side	301	04Z1531	883-03272004-313-002	Plenum 1st stage floor - biased, Pre-Fixative	<0.1
403	1st Floor C-Side	301	04Z1531	883-03272004-313-003	Plenum 1st stage air lock - biased, Pre-Fixative	<0.1
404	1st Floor C-Side	301	04Z1531	883-03272004-313-004	Plenum 1st stage, pre-door - biased, Pre-Fixative	<0.1
405	1st Floor C-Side	301	04Z1531	883-03272004-313-005	Plenum 2nd stage, floor - biased, Pre-Fixative	<0.1
406	1st Floor C-Side	301	04Z1531	883-03272004-313-006	Plenum 2nd stage, floor - biased, Pre-Fixative	<0.1
407	1st Floor C-Side	301	04Z1531	883-03272004-313-007	2nd stage plenum, east bank - biased, Pre-Fixative	<0.1
408	1st Floor C-Side	301	04Z1531	883-03272004-313-008	2nd stage plenum, west bank, biased, Pre-Fixative	<0.1
409	1st Floor C-Side	301	04Z1531	883-03272004-313-009	3rd stage plenum, floor - biased, Pre-Fixative	<0.1
410	1st Floor C-Side	301	04Z1531	883-03272004-313-010	3rd stage plenum, floor - biased, Pre-Fixative	<0.1
411	1st Floor C-Side	301	04Z1531	883-03272004-313-011	3rd stage plenum, filter bank - biased, Pre-Fixative	<0.1
412	1st Floor C-Side	301	04Z1531	883-03272004-313-012	3rd stage plenum fan - biased, Pre-Fixative	<0.1
1	1st Floor East Annex	212	04Z2585	883-09092004-313-001	Ceiling - random, Pre-Fixative	<0.1
2	1st Floor East Annex	212	04Z2585	883-09092004-313-002	West Wall - random, Pre-Fixative	<0.1
3	1st Floor East Annex	212	04Z2585	883-09092004-313-003	Floor - random, Pre-Fixative	<0.1
4	1st Floor East Annex	212	04Z2585	883-09092004-313-004	Floor - random, Pre-Fixative	<0.1
5	1st Floor East Annex	212	04Z2585	883-09092004-313-005	Floor - random, Pre-Fixative	<0.1
6	1st Floor East Annex	130	04Z2553	883-09012004-313-006	Floor - random, Pre-Fixative	<0.1
6	1st Floor East Annex	212	04Z2585	883-09092004-313-006	Floor - biased, Pre-Fixative	<0.1
7	1st Floor East Annex	130	04Z2553	883-09012004-313-007	Floor - random, Pre-Fixative	<0.1
7	1st Floor East Annex	212	04Z2585	883-09092004-313-007	East Wall - biased, Pre-Fixative	<0.1
20	1st Floor East Annex	104	04Z2553	883-09012004-313-020	Floor - random, Pre-Fixative	<0.1
21	1st Floor East Annex	130	04Z2553	883-09012004-313-021	Floor - random, Pre-Fixative	<0.1
22	1st Floor East Annex	104	04Z2553	883-09012004-313-022	Floor - random, Pre-Fixative	<0.1
26	1st Floor East Annex	130	04Z2553	883-09012004-313-026	Floor - random, Pre-Fixative	<0.1
28	1st Floor East Annex	104	04Z2553	883-09012004-313-028	Floor - random, Pre-Fixative	<0.1
29	1st Floor East Annex	130	04Z2553	883-09012004-313-029	Floor - random, Pre-Fixative	<0.1
36	1st Floor East Annex	130A	04Z2553	883-09012004-313-036	Floor - random, Pre-Fixative	<0.1
39	1st Floor East Annex	104	04Z2553	883-09012004-313-039	Floor - random, Pre-Fixative	<0.1
41	1st Floor East Annex	104	04Z2553	883-09012004-313-041	Floor - random, Pre-Fixative	< 0.1
48	1st Floor East Annex	130	04Z2553	883-09012004-313-048	Floor - random, Pre-Fixative	<0.1
51	1st Floor East Annex	130	04Z2553	883-09012004-313-051	Floor - random, Pre-Fixative	<0.1
61	1st Floor East Annex	130	04Z2553	883-09012004-313-061	Floor - random, Pre-Fixative	<0.1
70	1st Floor East Annex	104	04Z2553	883-09012004-313-070	Floor - random, Pre-Fixative	< 0.1
76	1st Floor East Annex	104	04Z2553	883-09012004-313-076	Floor - biased, Pre-Fixative	<0.1
77	1st Floor East Annex	104	04Z2553	883-09012004-313-077	Floor - biased, Pre-Fixative	<0.1
78	1st Floor East Annex	104	04Z2553	883-09012004-313-078	Floor - biased, Pre-Fixative	<0.1
79	1st Floor East Annex	130	04Z2553	883-09012004-313-079	Floor - biased, Pre-Fixative	<0.1
80	1st Floor East Annex	130	04Z2553	883-09012004-313-080	Floor - biased, Pre-Fixative	<0.1
81	1st Floor East Annex	130	04Z2647	883-09232004-313-081	Top of I-Beam - biased, Pre-Fixative	<0.1
82	1st Floor East Annex	104	04Z2647	883-09232004-313-082	Top of I-Beam - biased, Pre-Fixative	<0.1
83	1st Floor East Annex	104	04Z2647	883-09232004-313-083	Top of I-Beam - biased, Pre-Fixative	<0.1
84	1st Floor East Annex	104	04Z2647	883-09232004-313-084	Top of I-Beam - biased, Pre-Fixative	<0.1
85	1st Floor East Annex	130	04Z2647	883-09232004-313-085	Top of I-Beam - biased, Pre-Fixative	<0.1

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Building 883 1st Floor
Beryllium Sample Results Table

86	1st Floor East Annex	130	04Z2647	883-09232004-313-086	Top of I-Beam - biased, Pre-Fixative	<0.1
87	1st Floor East Annex	130	04Z2647	883-09232004-313-087	Top of I-Beam - biased, Pre-Fixative	<0.1
88	1st Floor East Annex	104	04Z2647	883-09232004-313-088	Top of I-Beam - biased, Pre-Fixative	<0.1
89	1st Floor East Annex	104	04Z2647	883-09232004-313-089	Top of I-Beam - biased, Pre-Fixative	<0.1
90	1st Floor East Annex	104	04Z2647	883-09232004-313-090	Top of I-Beam - biased - Pre-Fixative	<0.1
19	1st Floor North Side	106	05D0353	883-12302004-313-019	Floor - random, Pre-Fixative	<0.1
54	1st Floor North Side	108	05D0353	883-12302004-313-054	Floor - random, Pre-Fixative	<0.1
64	1st Floor North Side	128	05D0353	883-12302004-313-064	Floor - random, Pre-Fixative	<0.1
253	1st Floor North Side	106	05D0335	883-12182004-313-253	Air Box Floor, central - biased, Pre-Fixative	<0.1
254	1st Floor North Side	106	05D0335	883-12182004-313-254	Air Box, South Wall - biased, Pre-Fixative	<0.1
255	1st Floor North Side	106	05D0335	883-12182004-313-255	Air Box, East Wall - biased, Pre-Fixative	<0.1
256	1st Floor North Side	106	05D0335	883-12182004-313-256	Air Box, North Wall - biased, Pre-Fixative	<0.1
257	1st Floor North Side	106	05D0335	883-12182004-313-257	Air Box, West Wall - biased, Pre-Fixative	<0.1
291	1st Floor North Side	108	05D0335	883-12272004-313-291	Air Box Floor, central - biased, Post-Fixative (rewipe for # 236 - air box floor)	<0.1
294	1st Floor North Side	108	05D0353	883-12302004-313-294	Floor - biased, Pre-Fixative	<0.1
295	1st Floor North Side	108	05D0353	883-12302004-313-295	Floor - biased, Pre-Fixative	<0.1
296	1st Floor North Side	108	05D0353	883-12302004-313-296	Floor - biased, Pre-Fixative	<0.1
297	1st Floor North Side	129	05D0353	883-12302004-313-297	Floor - biased, Pre-Fixative	<0.1
298	1st Floor North Side	107	05D0353	883-12302004-313-298	Floor - biased, Pre-Fixative	<0.1
299	1st Floor North Side	107	05D0353	883-12302004-313-299	Floor - biased, Pre-Fixative	<0.1
300	1st Floor North Side	107	05D0353	883-12302004-313-300	Floor - biased, Pre-Fixative	<0.1
301	1st Floor North Side	106	05D0353	883-12302004-313-301	Floor - biased, Pre-Fixative	<0.1
302	1st Floor North Side	106	05D0353	883-12302004-313-302	Floor - biased, Pre-Fixative	<0.1
303	1st Floor North Side	106	05D0353	883-12302004-313-303	Floor - biased, Pre-Fixative	<0.1
304	1st Floor North Side	106	05D0353	883-12302004-313-304	Top of Air Box, East Side - biased, Pre-Fixative	<0.1
305	1st Floor North Side	106	05D0353	883-12302004-313-305	Top of I-Beam, East Wall - biased, Pre-Fixative	<0.1
306	1st Floor North Side	106	05D0353	883-12302004-313-306	North Wall - biased, Pre-Fixative	<0.1
307	1st Floor North Side	107	05D0353	883-12302004-313-307	Top of Frame, Overhead Door - biased, Pre-Fixative	<0.1
308	1st Floor North Side	107	05D0353	883-12302004-313-308	Stair Landing - biased, Pre-Fixtative	<0.1
309	1st Floor North Side	108	05D0353	883-12302004-313-309	North Wall - biased, Pre-Fixative	<0.1
310	1st Floor North Side	108	05D0353	883-12302004-313-310	Top of I-Beam, West Wall - biased, Pre-Fixative	<0.1
311	1st Floor North Side	108	05D0353	883-12302004-313-311	Top of Air Box, West Side - biased, Pre-Fixative	<0.1
236	1st Floor North-Side	108	05D0258	883-12062004-313-236	Air Box, Floor, Central - biased, Pre-fixative (see # 291 for rewipe)	0.665
237	1st Floor North-Side	108	05D0258	883-12062004-313-237	Air Box, South Wall - biased, Pre-Fixative	<0.1
238	1st Floor North-Side	108	05D0258	883-12062004-313-238	Air Box, East Wall - biased, Pre-Fixative	<0.1
239	1st Floor North-Side	108	05D0258	883-12062004-313-239	Air Box, North Wall - biased, Pre-Fixative	<0.1
240	1st Floor North-Side	108	05D0258	883-12062004-313-240	Air Box West Wall - biased, Pre-Fixative	<0.1
3	1st Floor Office	101	05D0260	883-12032004-313-003	Floor - random, Pre-Fixative	<0.1
8	1st Floor Office	121	05Z0117	883-10042004-313-008	Floor - random, Pre-Fixative	<0.1
9	1st Floor Office	117A	05D0260	883-12032004-313-009	Floor - random, Pre-Fixative	<0.1
31	1st Floor Office	144	05Z0117	883-10042004-313-031	Floor - random, Pre-Fixative	<0.1
32	1st Floor Office	118	05Z0117	883-10042004-313-032	Floor - random, Pre-Fixative	<0.1
43	1st Floor Office	114A	05D0260	883-12032004-313-043	Floor - random, Pre-Fixative	<0.1
46	1st Floor Office	144	05Z0117	883-10042004-313-046	Floor - random, Pre-Fixative	<0.1
47	1st Floor Office	114	05D0260	883-12032004-313-047	Floor - random, Pre-Fixative	<0.1
49	1st Floor Office	137	05Z0117	883-10042004-313-049	Floor - random, Pre-Fixative	<0.1
59	1st Floor Office	137	05Z0117	883-10042004-313-059	Floor - random, Pre-Fixative	<0.1
63	1st Floor Office	137	05Z0117	883-10042004-313-063	Floor - random, Pre-Fixative	<0.1
116	1st Floor Office	122	05Z0117	883-10042004-313-116	Floor - biased, Pre-Fixative	<0.1
117	1st Floor Office	137	05Z0117	883-10042004-313-117	Floor - biased, Pre-Fixative	<0.1
118	1st Floor Office	120	05Z0117	883-10042004-313-118	Floor - biased, Pre-Fixative	<0.1
119	1st Floor Office	117	05Z0117	883-10042004-313-119	Floor - biased, Pre-Fixative	<0.1
120	1st Floor Office	116	05Z0117	883-10042004-313-120	Floor - biased, Pre-Fixative	<0.1
121	1st Floor Office	142	05Z0117	883-10042004-313-121	Floor - biased, Pre-Fixative	<0.1
122	1st Floor Office	141	05Z0117	883-10042004-313-122	Floor - biased, Pre-Fixative	<0.1
123	1st Floor Office	140	05Z0117	883-10042004-313-123	Floor - biased, Pre-Fixative	<0.1
124	1st Floor Office	140A	05Z0117	883-10042004-313-124	Floor - biased, Pre-Fixative	<0.1
125	1st Floor Office	143	05Z0117	883-10042004-313-125	Floor - biased, Pre-Fixative	<0.1

Building 883 1st Floor
Beryllium Sample Results Table

126	1st Floor Office	143A	05Z0117	883-10042004-313-126	Floor - biased, Pre-Fixative	<0.1
127	1st Floor Office	144	05Z0117	883-10042004-313-127	Floor - biased, Pre-Fixative	<0.1
128	1st Floor Office	121	05Z0117	883-10042004-313-128	Top of red iron beam - biased, Pre-Fixative	<0.1
129	1st Floor Office	117	05Z0117	883-10042004-313-129	Top of red iron beam - biased, Pre-Fixative	<0.1
130	1st Floor Office	137	05Z0117	883-10042004-313-130	Top of gray iron beam - biased, Pre-Fixative	<0.1
131	1st Floor Office	116	05Z0117	883-10042004-313-131	Top of door frame - biased, Pre-Fixative	<0.1
132	1st Floor Office	145	05Z0117	883-10042004-313-132	Top of gray iron beam - biased, Pre-Fixative	<0.1
133	1st Floor Office	140	05Z0117	883-10042004-313-133	Top of red iron beam - biased, Pre-Fixative	<0.1
152	1st Floor Office	115	05D0260	883-12032004-313-152	Floor - biased, Pre-Fixative	<0.1
153	1st Floor Office	114B	05D0260	883-12032004-313-153	Floor - biased, Pre-Fixative	<0.1
154	1st Floor Office	114	05D0260	883-12032004-313-154	Floor - biased, Pre-Fixative	<0.1
155	1st Floor Office	101	05D0260	883-12032004-313-155	Concrete Block Wall -biased, Pre-Fixative	<0.1
156	1st Floor Office	101	05D0260	883-12032004-313-156	Concrete Block Wall -biased, Pre-Fixative	<0.1
157	1st Floor Office	114	05D0260	883-12032004-313-157	Concrete Block Wall -biased, Pre-Fixative	<0.1
158	1st Floor Office	114	05D0260	883-12032004-313-158	Concrete Block Wall -biased, Pre-Fixative	<0.1
159	1st Floor Office	114	05D0260	883-12032004-313-159	Concrete Block Wall -biased, Pre-Fixative	<0.1
160	1st Floor Office	113A	05D0260	883-12032004-313-160	Top of red ironbeam - biased, Pre-Fixative	<0.1
161	1st Floor Office	114B	05D0260	883-12032004-313-161	Top of ceramic block ledge - biased, Pre-Fixative	<0.1
162	1st Floor Office	114	05D0260	883-12032004-313-162	Top of I-beam - biased, Pre-Fixative	<0.1
163	1st Floor Office	117	05D0260	883-12032004-313-163	Top of supply duct - biased, Pre-Fixative	<0.1
164	1st Floor Office	119A	05D0260	883-11232004-313-	Top of janitors closet - biased, Pre-Fixative	<0.1

Footnotes:

(1) Shaded rows are beryllium results prior to the application of fixative or final decon. The unshaded rows are the final "as left" condition sample results. Further decon or fixative was applied over all elevated locations as well as extending to the boundaries of clean sample locations surrounding the elevated locations.

All initial sample locations above 0.1 ug/100cm2 were either further deconned or had fixative applied and were then re-sampled.

Additonal biased pre-fixative or post-fixative samples were collected in the same general area of the initial elevated sample locations.

All final pre-fixative or post-fixative swipes were less than the 0.2 ug/100 cm2 beryllium limit and no further investigation sampling is required.

(2) Gaps in the sample numbering sequence are acceptable. Some sample numbers were never used and some were used more than once. Some sample numbers were elevated, then decontaminated, and then resampled using the same initial sample number.

(3) Numbers 401 - 410 and 601 - 618 were changed from their original ID's to avoid duplication of sample numbers, no affect on outcome.

(4) Data is sorted by Floor, then my Sample Map Location #.

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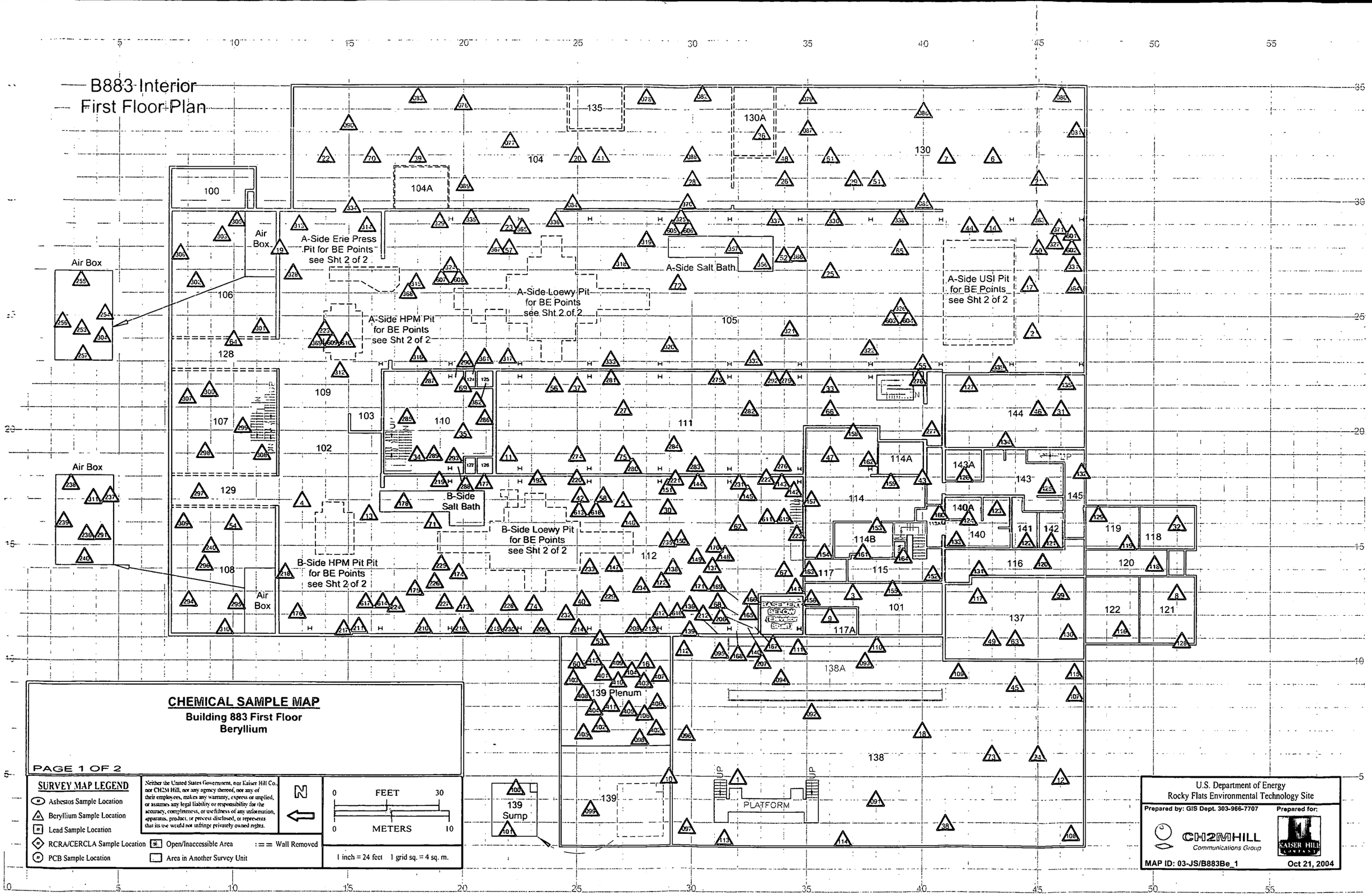
B883 Interior
First Floor Plan
A-Side Erie Press Pit for BE Points see Sht 2 of 2
A-Side Loewy Pit for BE Points see Sht 2 of 2
A-Side HPM Pit for BE Points see Sht 2 of 2
A-Side Salt Bath
A-Side USI Pit for BE Points see Sht 2 of 2
B-Side Salt Bath
B-Side Loewy Pit for BE Points see Sht 2 of 2
B-Side HPM Pit Pit for BE Points see Sht 2 of 2
Air Box
139 Plenum
139 Sump
PLATFORM
CHEMICAL SAMPLE MAP
Building 883 First Floor
Beryllium
PAGE 1 OF 2
SURVEY MAP LEGEND
Asbestos Sample Location
Beryllium Sample Location
Lead Sample Location
RCRA/CERCLA Sample Location
PCB Sample Location
Open/Inaccessible Area
Area in Another Survey Unit
Wall Removed
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N
0 FEET 30
0 METERS 10
1 inch = 24 feet 1 grid sq. = 4 sq. m.
U.S. Department of Energy
Rocky Flats Environmental Technology Site
Prepared by: GIS Dept. 303-966-7707
Prepared for:
CH2MHILL
Communications Group
KAISER HILL COMPANY
MAP ID: 03-JS/B883Be_1
Oct 21, 2004

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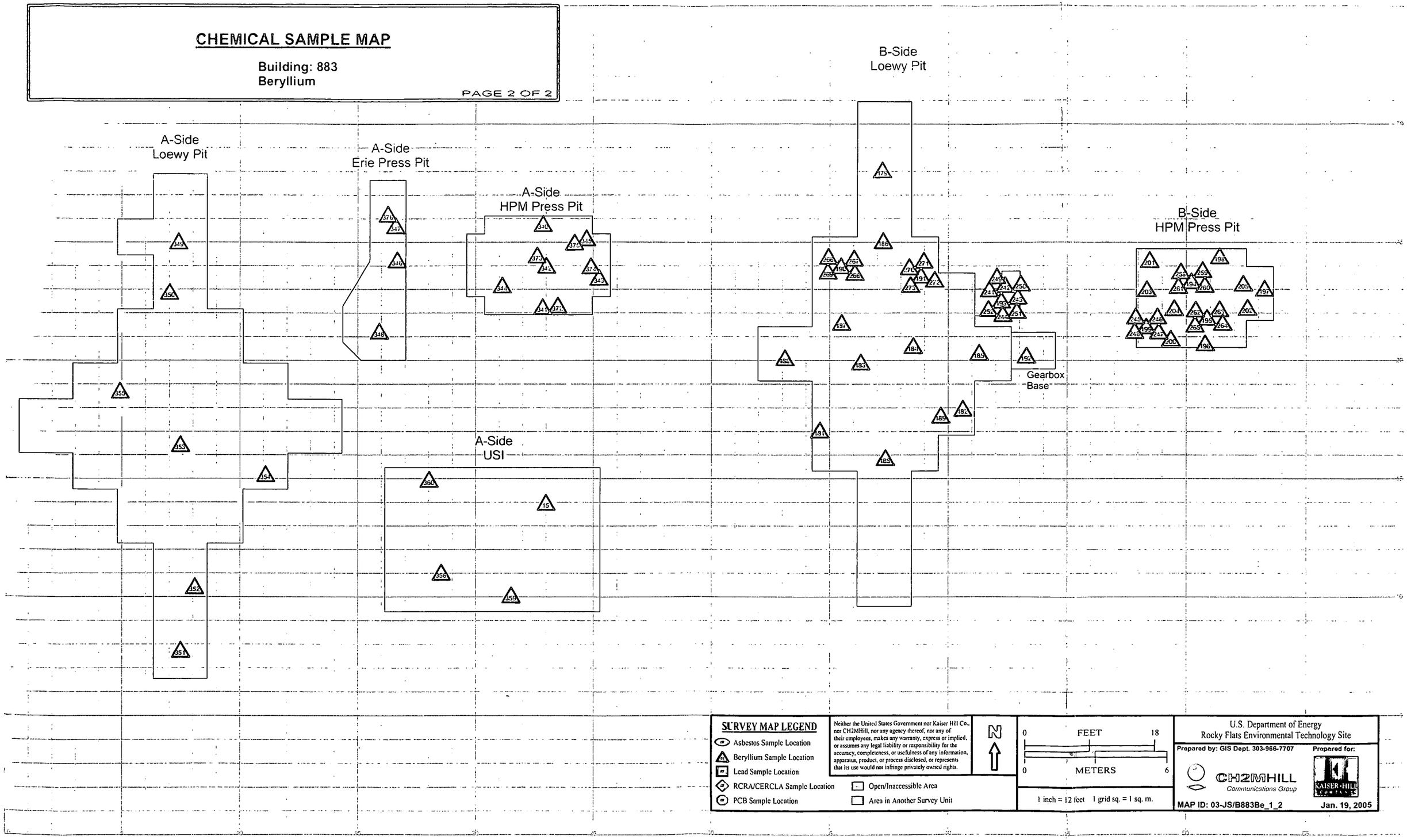
CHEMICAL SAMPLE MAP

Building: 883
Beryllium



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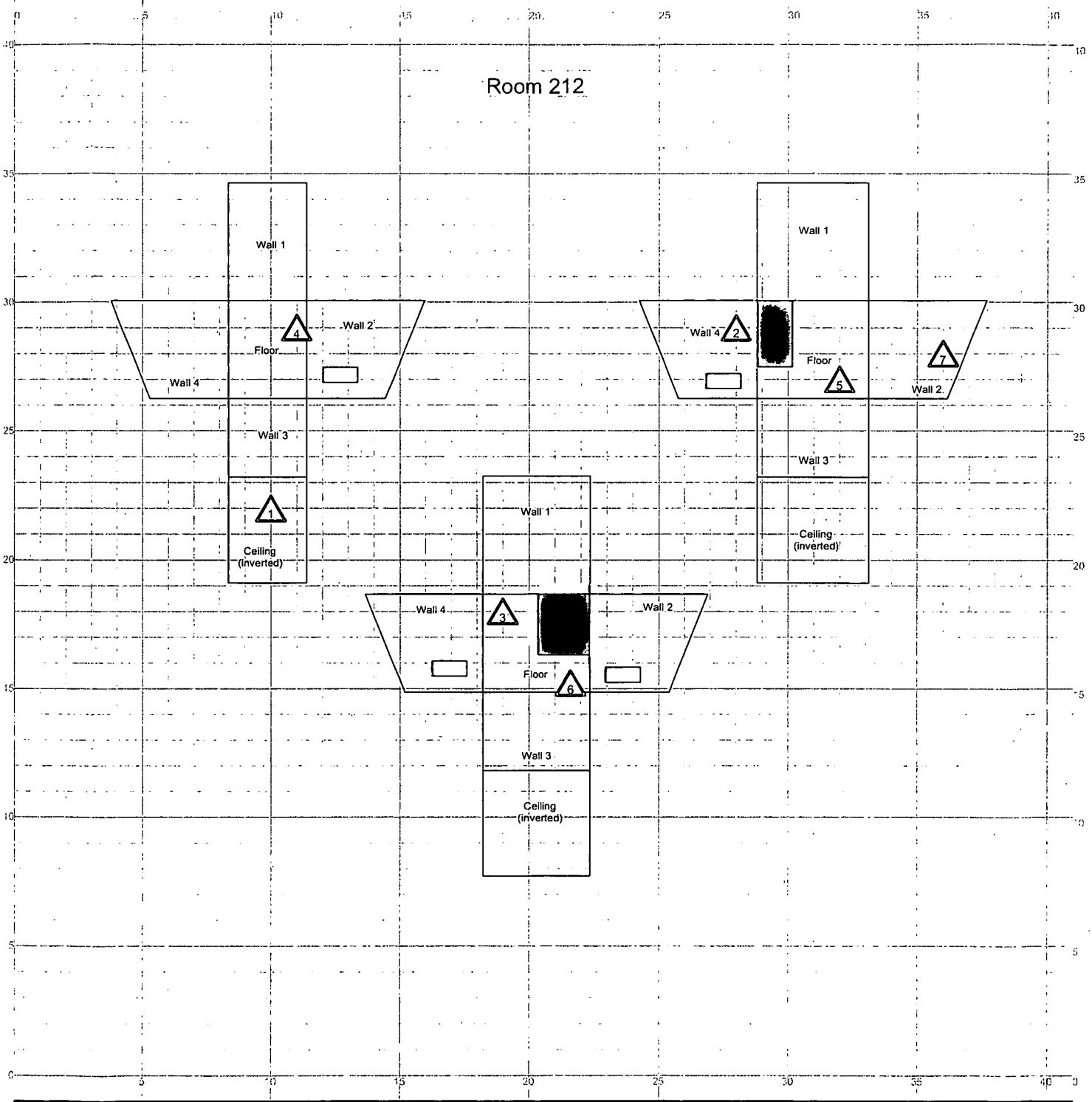
CHEMICAL SAMPLE MAP

Building 883 Room 212
Beryllium



SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCB Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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N

0 FEET 25
0 METERS 8

1 inch = 18 feet 1 grid sq. = 1 sq. m.

U.S. Department of Energy
Rocky Flats Environmental Technology Site

Prepared by: GIS Dept. 303-966-7707 Prepared for:

CH2MHILL Communications Group

KAISER-HILL COMPANY

MAP ID: 03-JS/BE/Rm212-BE Aug. 30, 2004

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Building 883 2nd Floor
Beryllium Sample Results Table

Sample Map Location #	Floor	Room	RIN	Sample Number	Sample Location	Result (ug/100 cm2)
1	2nd Floor North Side	202	05D0327	883-12172004-26-001	Floor - random, Pre-Fixative	<0.1
2	2nd Floor North Side	202	05D0327	883-12172004-26-002	Floor - random, Pre-Fixative	<0.1
5	2nd Floor North Side	201	05D0327	883-12172004-26-005	Floor - random, Pre-Fixative	<0.1
6	2nd Floor North Side	207	05D0327	883-12172004-26-006	Floor - random, Pre-Fixative	<0.1
8	2nd Floor North Side	202	05D0327	883-12172004-26-008	Floor - random, Pre-Fixative	<0.1
10	2nd Floor North Side	201	05D0327	883-12172004-26-010	Floor - random, Pre-Fixative	<0.1
14	2nd Floor North Side	203	05D0327	883-12172004-26-014	Floor - random, Pre-Fixative	<0.1
15	2nd Floor North Side	202	05D0327	883-12172004-26-015	Floor - random, Pre-Fixative	<0.1
18	2nd Floor North Side	203	05D0327	883-12172004-26-018	Floor - random, Pre-Fixative	<0.1
21	2nd Floor North Side	207	05D0327	883-12172004-26-021	Floor - random, Pre-Fixative	<0.1
23	2nd Floor North Side	203	05D0327	883-12172004-26-023	Floor - random, Pre-Fixative	<0.1
25	2nd Floor North Side	201 stairs	05D0327	883-12172004-26-025	Floor - random, Pre-Fixative	<0.1
26	2nd Floor North Side	203	05D0327	883-12172004-26-026	Floor - random, Pre-Fixative	<0.1
27	2nd Floor North Side	201	05D0327	883-12172004-26-027	Floor - random, Pre-Fixative	<0.1
29	2nd Floor North Side	207	05D0327	883-12172004-26-029	Floor - random, Pre-Fixative	<0.1
30	2nd Floor North Side	201	05D0327	883-12172004-26-030	Floor - random, Pre-Fixative	<0.1
31	2nd Floor North Side	203	05D0327	883-12172004-26-031	Floor - random, Pre-Fixative	<0.1
32	2nd Floor North Side	201	05D0327	883-12172004-26-032	Floor - random, Pre-Fixative	<0.1
33	2nd Floor North Side	202	05D0327	883-12172004-26-033	Floor - random, Pre-Fixative	<0.1
53	2nd Floor North Side	202	05D0327	883-12172004-26-053	Floor - biased, Pre-Fixative	<0.1
54	2nd Floor North Side	202	05D0327	883-12172004-26-054	Floor - biased, Pre-Fixative	<0.1
55	2nd Floor North Side	201	05D0327	883-12172004-26-055	Floor - biased, Pre-Fixative	<0.1
56	2nd Floor North Side	207	05D0327	883-12172004-26-056	Floor - biased, Pre-Fixative	<0.1
57	2nd Floor North Side	207	05D0327	883-12172004-26-057	Floor - biased, Pre-Fixative	<0.1
58	2nd Floor North Side	203	05D0327	883-12172004-26-058	Floor - biased, Pre-Fixative	<0.1
59	2nd Floor North Side	201	05D0327	883-12172004-26-059	Floor - biased, Pre-Fixative	<0.1
60	2nd Floor North Side	201	05D0327	883-12172004-26-060	Floor - biased, Pre-Fixative	<0.1
62	2nd Floor North Side	202	05D0327	883-12172004-26-062	Vertical louver - biased, Pre-Fixative	<0.1
63	2nd Floor North Side	202	05D0327	883-12172004-26-063	Top of Perline - biased, Pre-Fixative	<0.1
64	2nd Floor North Side	201	05D0327	883-12172004-26-064	Bracket - biased, Pre-Fixative	<0.1
65	2nd Floor North Side	202	05D0327	883-12172004-26-065	Top of housing for fan belt - biased, Pre-Fixative	<0.1
66	2nd Floor North Side	207	05D0327	883-12172004-26-066	Top of duct - biased, Pre-Fixative	<0.1
67	2nd Floor North Side	207	05D0327	883-12172004-26-067	Top of duct - biased, Pre-Fixative	<0.1
68	2nd Floor North Side	207	05D0327	883-12172004-26-068	Top of duct - biased, Pre-Fixative	<0.1
69	2nd Floor North Side	203	05D0327	883-12172004-26-069	Top of base for fan - biased, Pre-Fixative	<0.1
70	2nd Floor North Side	203	05D0327	883-12172004-26-070	Horizontal louver - biased, Pre-Fixative	<0.1
3	2nd Floor Office	206	05D0261	88-12032004-500-003	Floor - random, Pre-Fixative	<0.1
3	2nd Floor Office	206	05Z0118	883-10052004-313-003	Floor - random, Pre-Fixative	<0.1
4	2nd Floor Office	220A	05Z0118	883-10052004-313-004	Floor - random, Pre-Fixative	<0.1
7	2nd Floor Office	218	05Z0118	883-10052004-313-007	Floor - random, Pre-Fixative	<0.1
9	2nd Floor Office	204A	05D0261	88-12032004-500-009	Floor - random, Pre-Fixative	<0.1
9	2nd Floor Office	204A	05Z0118	883-10052004-313-009	Floor - random, Pre-Fixative	<0.1
11	2nd Floor Office	215	05Z0118	883-10052004-313-011	Floor - random, Pre-Fixative	<0.1
12	2nd Floor Office	219	05Z0118	883-10052004-313-012	Floor - random, Pre-Fixative	<0.1
13	2nd Floor Office	204	05D0261	88-12032004-500-013	Floor - random, Pre-Fixative	<0.1
13	2nd Floor Office	204	05Z0118	883-10052004-313-013	Floor - random, Pre-Fixative	<0.1
16	2nd Floor Office	220	05Z0118	883-10052004-313-016	Floor - random, Pre-Fixative	<0.1
17	2nd Floor Office	211	05D0261	88-12032004-500-017	Floor - random, Pre-Fixative	<0.1
17	2nd Floor Office	211	05Z0118	883-10052004-313-017	Floor - random, Pre-Fixative	<0.1
19	2nd Floor Office	205	05D0261	88-12032004-500-019	Floor - random, Pre-Fixative	<0.1
19	2nd Floor Office	205	05Z0118	883-10052004-313-019	Floor - random, Pre-Fixative	<0.1
20	2nd Floor Office	219	05Z0118	883-10052004-313-020	Floor - random, Pre-Fixative	<0.1
22	2nd Floor Office	204	05D0261	88-12032004-500-022	Floor - random, Pre-Fixative	<0.1
22	2nd Floor Office	204	05Z0118	883-10052004-313-022	Floor - random, Pre-Fixative	<0.1
24	2nd Floor Office	219	05Z0118	883-10052004-313-024	Floor - random, Pre-Fixative	<0.1
28	2nd Floor Office	219	05Z0118	883-10052004-313-028	Floor - random, Pre-Fixative	<0.1
34	2nd Floor Office	220	05Z0118	883-10052004-313-034	Floor - random, Pre-Fixative	<0.1

Building 883 2nd Floor
Beryllium Sample Results Table

35	2nd Floor Office	211	05D0261	88-12032004-500-035	Floor - random, Pre-Fixative	<0.1
35	2nd Floor Office	211	05Z0118	883-10052004-313-035	Floor - random, Pre-Fixative	<0.1
36	2nd Floor Office	216	05Z0118	883-10052004-313-036	Floor - random, Pre-Fixative	<0.1
37	2nd Floor Office	214	05Z0118	883-10052004-313-037	Floor - random, Pre-Fixative	<0.1
38	2nd Floor Office	216	05Z0118	883-10052004-313-038	Top of Red Iron Beam - biased, Pre-Fixative	<0.1
39	2nd Floor Office	215	05Z0118	883-10052004-313-039	Top of Red Iron Beam - biased, Pre-Fixative	<0.1
40	2nd Floor Office	220A	05Z0118	883-10052004-313-040	Top of Red Iron Beam - biased, Pre-Fixative	<0.1
41	2nd Floor Office	220	05Z0118	883-10052004-313-041	Top of door frame - biased, Pre-Fixative	<0.1
42	2nd Floor Office	220	05Z0118	883-10052004-313-042	Top of gray iron beam - biased, Pre-Fixative	<0.1
43	2nd Floor Office	219	05Z0118	883-10052004-313-043	Top of Red Iron Beam - biased, Pre-Fixative	<0.1
44	2nd Floor Office	219	05Z0118	883-10052004-313-044	Top of red iron beam - biased, Pre-Fixative	<0.1
45	2nd Floor Office	217	05Z0118	883-10052004-313-045	Top of aluminum frame - biased, Pre-Fixative	<0.1
46	2nd Floor Office	220	05Z0118	883-10052004-313-046	Top of air unit - biased, Pre-Fixative	<0.1
47	2nd Floor Office	208A	05D0261	88-12032004-500-047	Floor - biased, Pre-Fixative	<0.1
48	2nd Floor Office	204B	05D0261	88-12032004-500-048	Floor - biased, Pre-Fixative	<0.1
49	2nd Floor Office	205	05D0261	88-12032004-500-049	Concrete Block Wall - biased, Pre-Fixative	<0.1
50	2nd Floor Office	204	05D0261	88-12032004-500-050	Concrete Block Wall - biased, Pre-Fixative	<0.1
51	2nd Floor Office	208B	05D0261	88-12032004-500-051	Top of Red Iron Beam - biased, Pre-Fixative	<0.1
52	2nd Floor Office	205	05D0261	88-12032004-500-052	Top of White Beam - biased, Pre-Fixative	<0.1
1	2nd Floor Office Attic	Attic	05D0262	883-12032004-026-001	Floor - biased, Pre-Fixative	<0.1
2	2nd Floor Office Attic	Attic	05D0262	883-12032004-026-002	Floor - biased, Pre-Fixative	<0.1
3	2nd Floor Office Attic	Attic	05D0262	883-12032004-026-003	Floor - biased, Pre-Fixative	<0.1
4	2nd Floor Office Attic	Attic	05D0262	883-12032004-026-004	Floor - biased, Pre-Fixative	<0.1
5	2nd Floor Office Attic	Attic	05D0262	883-12032004-026-005	Floor - biased, Pre-Fixative	<0.1
6	2nd Floor Office Attic	Attic	05D0262	883-12032004-026-006	Concrete Block Wall -biased, Pre-Fixative	<0.1
7	2nd Floor Office Attic	Attic	05D0262	883-12032004-026-007	Concrete Block Wall -biased, Pre-Fixative	<0.1
8	2nd Floor Office Attic	Attic	05D0262	883-12032004-026-008	Top of red ironbeam - biased, Pre-Fixative	<0.1
9	2nd Floor Office Attic	Attic	05D0262	883-12032004-026-009	Top of red iron beam - biased, Pre-Fixative	<0.1

Footnotes:

(1) Shaded rows are beryllium results prior to the application of fixative or final decon. The unshaded rows are the final "as left" condition sample results. Further decon or fixative was applied over all elevated locations as well as extending to the boundaries of clean sample locations surrounding the elevated locations.

All initial sample locations above 0.1 ug/100cm2 were either further deconned or had fixative applied and were then re-sampled.

Additonal biased post-fixative or post-decon samples were collected in the same general area of the initial elevated sample locations.

All final post-decon or post-fixative swipes were less than the 0.2 ug/100 cm2 beryllium limit and no further investigation sampling is required.

(2) Gaps in the sample numbering sequence are acceptable. Some sample numbers were never used and some were used more than once. Some sample numbers were elevated, then decontaminated, and then resampled using the same initial sample number.

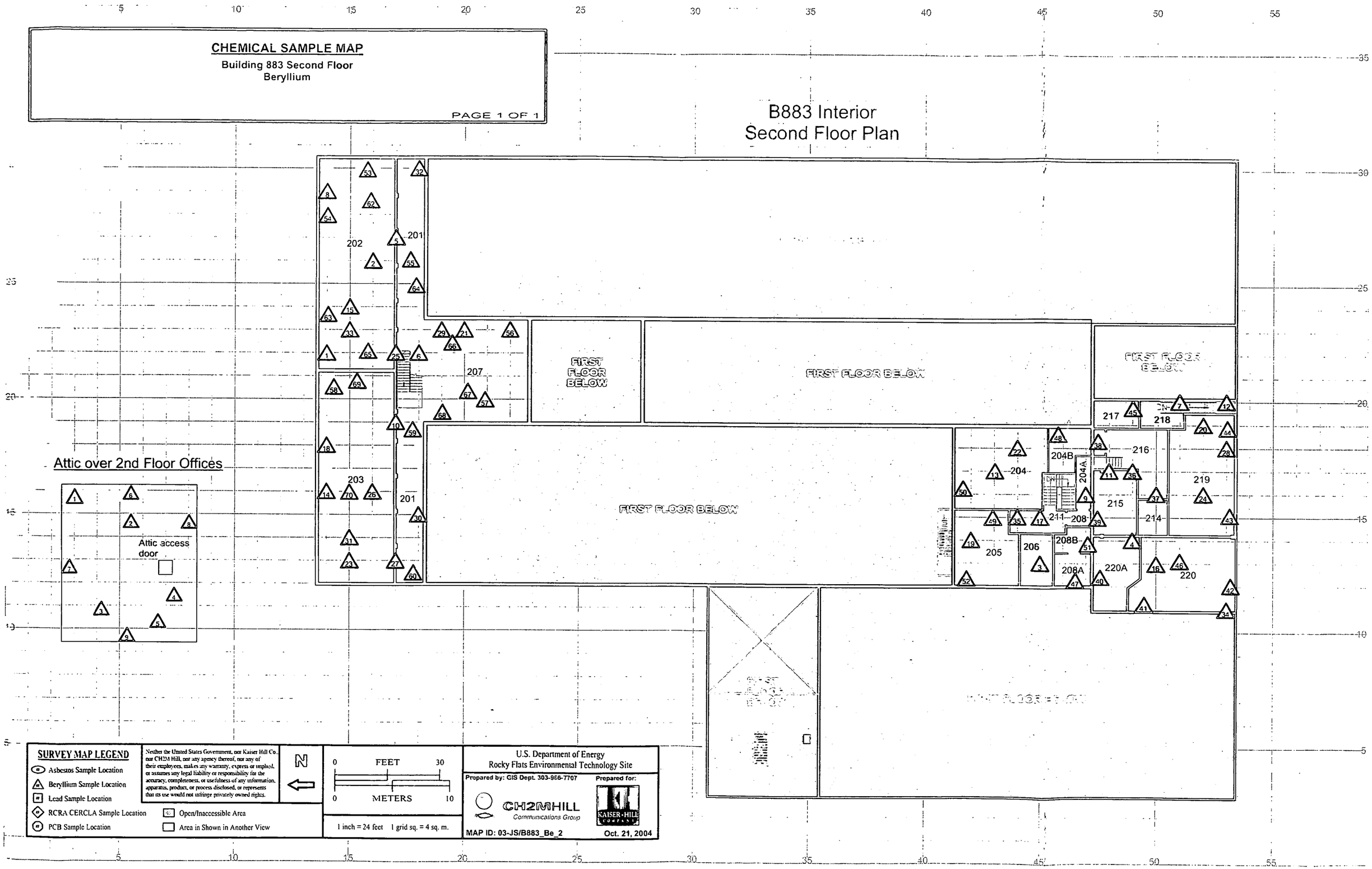
(3) 2nd Floor Office swipe locations #3, 9, 13, 17, 19, 22 and 35 were sampled twice and both results are reported in the above table.

(4) Data is sorted by Floor, then my Sample Map Location #.

CHEMICAL SAMPLE MAP

Building 883 Second Floor
Beryllium

PAGE 1 OF 1



SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA CERCLA Sample Location
- PCB Sample Location
- Open/Inaccessible Area
- Area in Shown in Another View

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N

0 FEET 30
0 METERS 10

1 inch = 24 feet 1 grid sq. = 4 sq. m.

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Prepared for:
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MAP ID: 03-JS/B883_Be_2

Oct. 21, 2004

ATTACHMENT C-2

RCRA/CERCLA Data Summaries and Sample Maps

TABLE C-2: BUILDING 883 RCRA/CERCLA DATA SUMMARY

Sample Location / Media	Sample Number	Map Number	Result (*ug*/L or *ug*/kg)
Building 883 core samples from slab	05Z0577-**001**.001 through 05Z0577-**009**.001	1-9	Metals, VOCs and SVOCs, all results less than regulatory limits
Building 883 core samples from slab	04Z2611-**001**.001 through 04Z2611-**003**.001	10-11	Metals, VOCs and SVOCs, all results less than regulatory limits

RCRA Toxicity Characteristic Limits

Analyte	Regulatory limit (mg/L)
Arsenic (D004)	5.0
Barium (D005)	100.0
Benzene (D018)	0.5
Cadmium (D006)	1.0
Carbon tetrachloride (D019)	0.5
Chlordane (D020)	0.03
Chlorobenzene (D021)	100.0
Chloroform (D022)	6.0
Chromium (D007)	5.0
o-Cresol (D023)	200.0 (a)
m-Cresol (D024)	200.0 (a)
p-Cresol (D025)	200.0 (a)
Cresol (D026)	200.0 (a)
2,4 –D (D016)	10.0
1,4 Dichlorobenzene (D027)	7.5
1,2 Dichloroethane (D028)	0.5
1,1 Dichlorethylene (D029)	0.7
2,4 Dinitrotoluene (D030)	0.13 (b)
Endrin (D012)	0.02
Heptachlor – and its epoxide (D031)	0.008
Hexachlorobenzene (D032)	0.13 (b)
Hexachlorobutadiene (D033)	0.5
Hexachloroethane (D034)	3.0
Lead (D008)	5.0
Lindane (D013)	0.4
Mercury (D009)	0.2
Methoxychlor (D014)	10.0
MEK (D035)	200.0
Nitrobenzene (D036)	2.0
Pentachlorophenol (D037)	100.0
Pyridine (DD038)	5.0 (b)
Selenium (D010)	1.0
Silver (D011)	5.0
Tetrachloroethylene (D039)	0.7
Toxaphene (D015)	0.5
Trichloroethylene (D040)	0.5
2,4,5-Trichlorophenol (D041)	400.0
2,4,6-Trichlorophenol (D042)	2.0
2,4,5-TP (Silvex) (D017)	1.0
Vinyl Chloride (D043)	0.2

(a) Quantitation Limit is greater than the calculated regulatory level. The quantitation limit therefore becomes the regulatory level.
(b) If o-, m-, and p-Cresol concentrations cannot be differentiated, the total Cresol (D026) concentration (200mg/l) is used.

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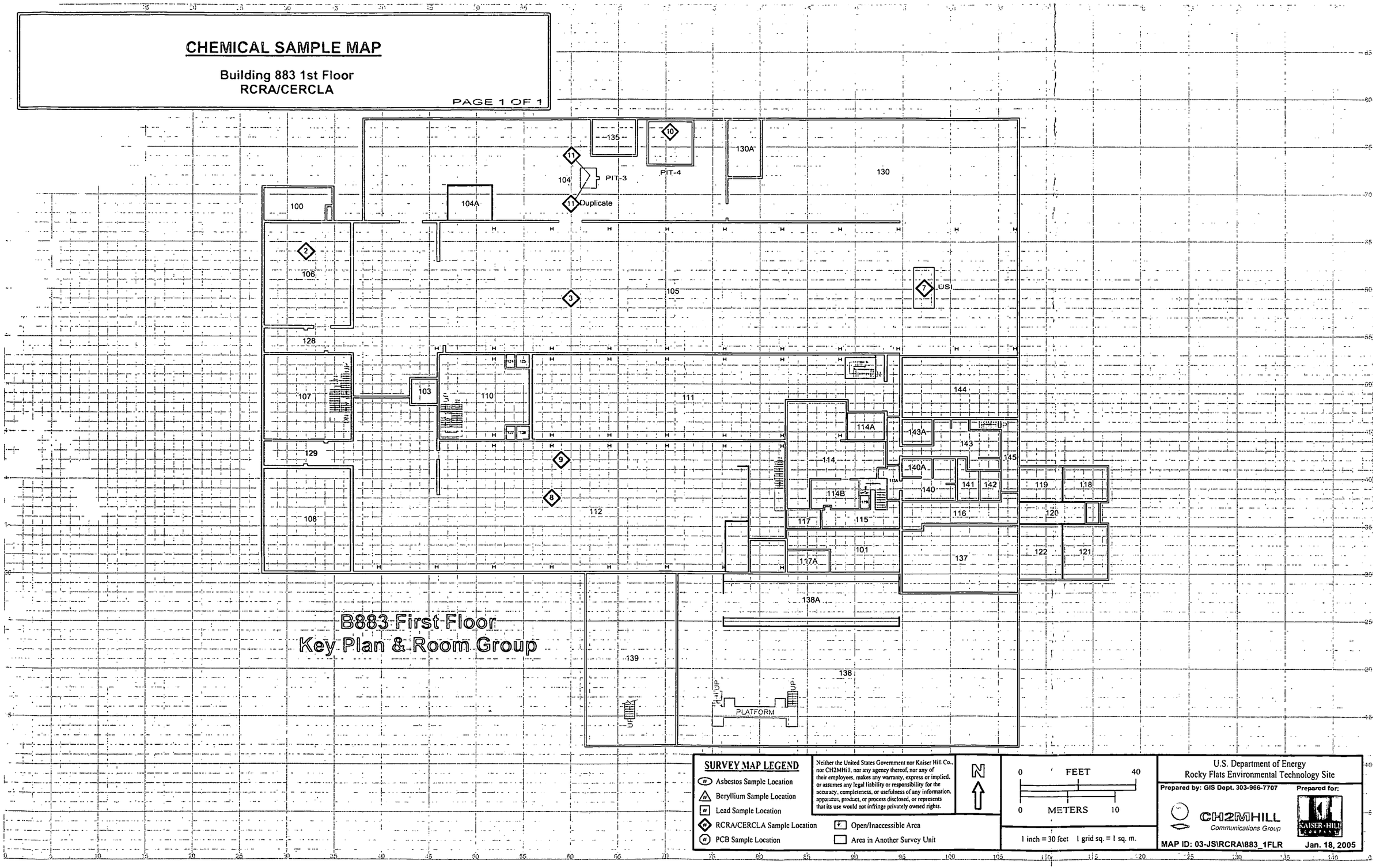
CHEMICAL SAMPLE MAP

Building 883 1st Floor
RCRA/CERCLA



SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCB Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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0 FEET 40
0 METERS 10

1 inch = 30 feet 1 grid sq. = 1 sq. m.

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Prepared for: KAISER-HILL COMPANY

MAP ID: 03-JS\RCRA\883_1FLR

Jan. 18, 2005

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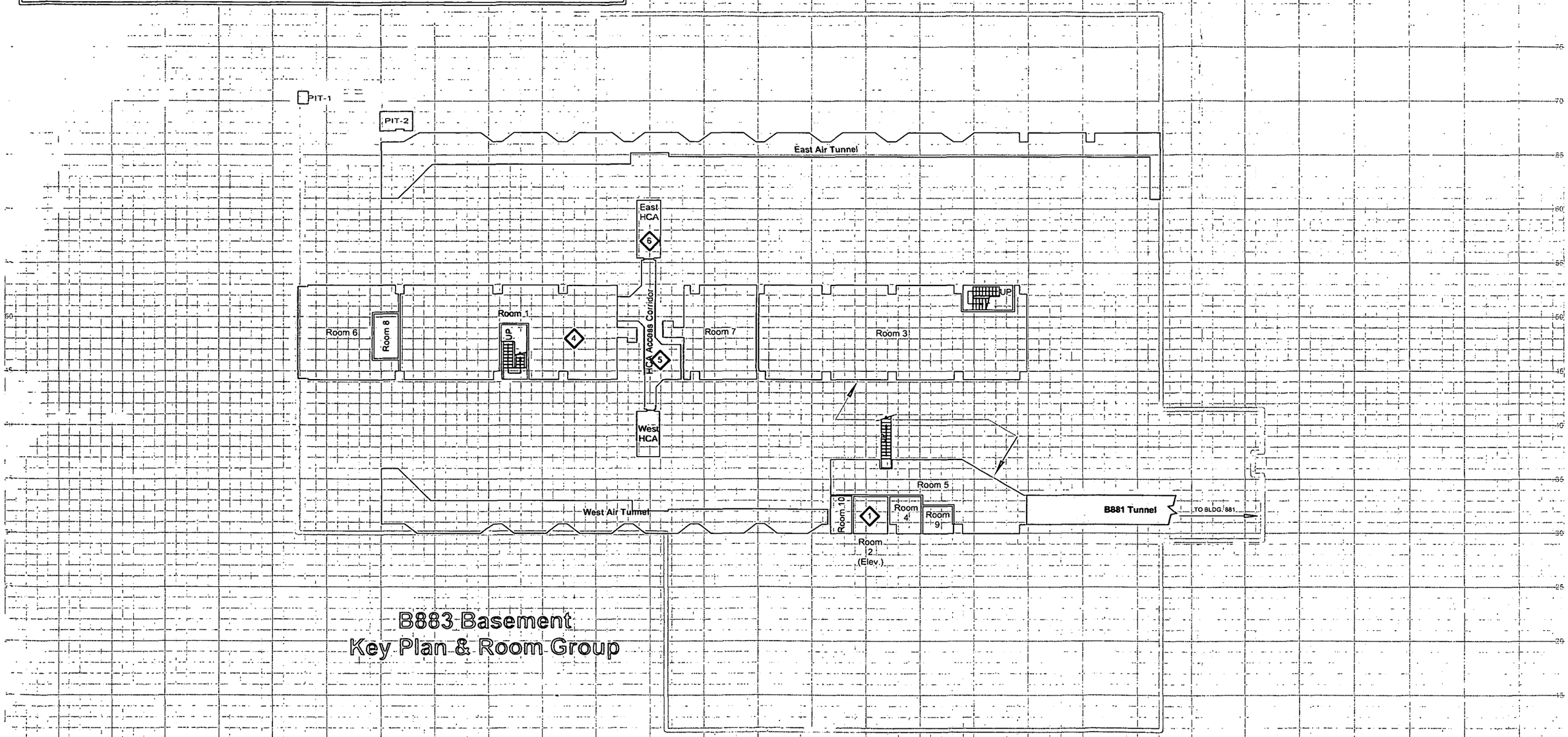
CHEMICAL SAMPLE MAP

Building 883 Basement
RCRA/CERCLA



SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCB Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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ATTACHMENT C-3

PCB Data Summary and Sample Maps

TABLE C-3: BUILDING 883 PCB DATA SUMMARY

Sample Location / Media	Sample Number	Map Number	Result (*ug*/L)
Building 883 core samples	05Z0577-001.**001**.001	1	All PCB results were less than regulatory limits
Building 883 core samples	05Z0577-001.**002**.001	2	All PCB results were less than regulatory limits
Building 883 core samples	05Z0577-001.**003**.001	3	All PCB results were less than regulatory limits
Building 883 core samples	05Z0577-001.**004**.001	4	All PCB results were less than regulatory limits
Building 883 core samples	05Z0577-001.**005**.001	5	All PCB results were less than regulatory limits
Building 883 core samples	05Z0577-001.**006**.001	6	All PCB results were less than regulatory limits
Building 883 core samples	05Z0577-001.**007**.001	7	Aroclor 1248 @670ppm
Building 883 core samples	05Z0577-001.**008**.001	8	All PCB results were less than regulatory limits
Building 883 core samples	05Z0577-001.**009**.001	9	All PCB results were less than regulatory limits
Building 883 core samples	04Z2611-001.**001**	10	Aroclor 1016 @ 710ppm Aroclor 1248 @ 1000ppm
Building 883 core samples	04Z2611-002.**001**	11	All PCB results were less than regulatory limits
Building 883 core samples	04Z2611-003.**001** **(duplicate)**	11	All PCB results were less than regulatory limits

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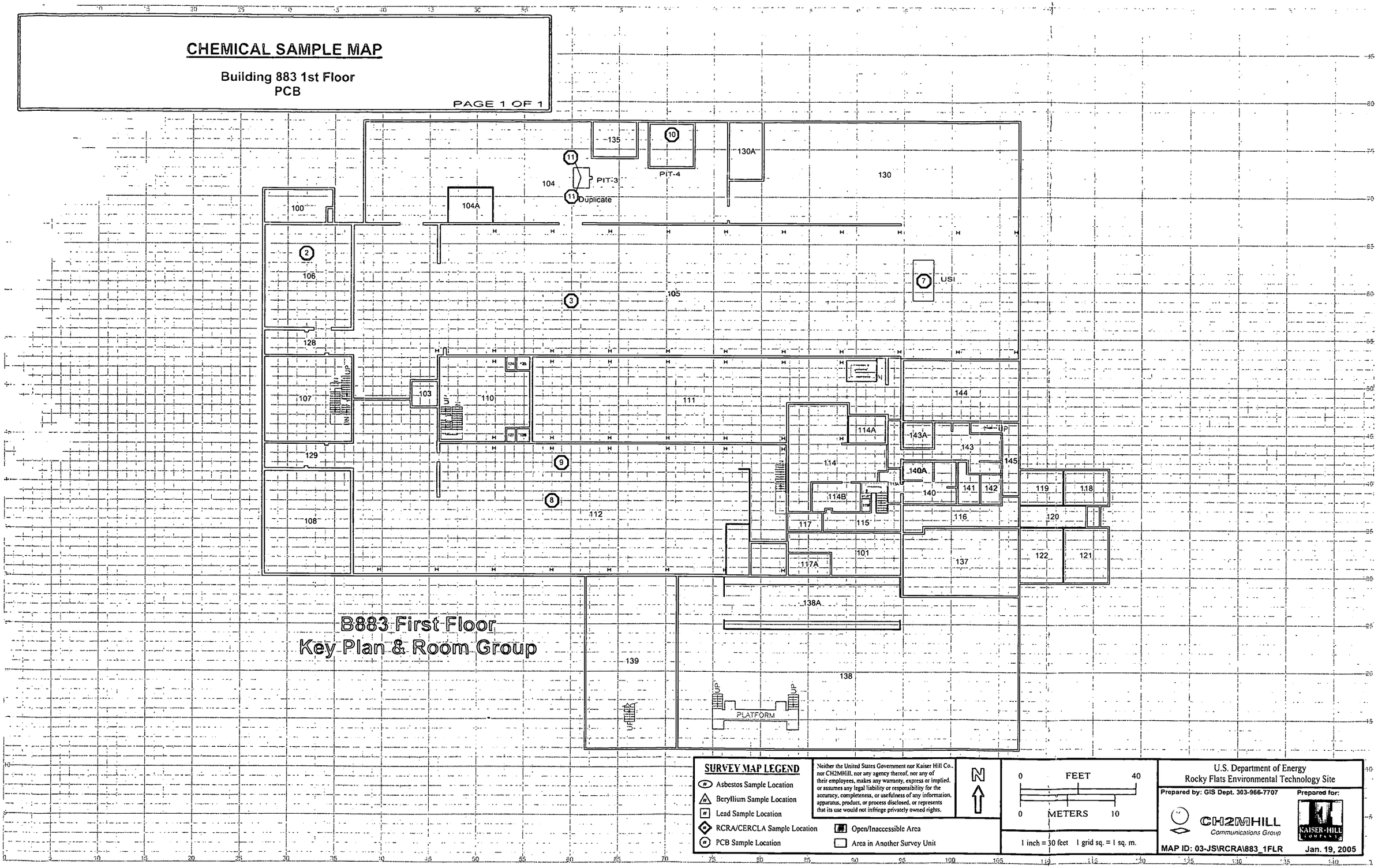
CHEMICAL SAMPLE MAP

Building 883 1st Floor
PCB



SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCB Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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Jan. 19, 2005

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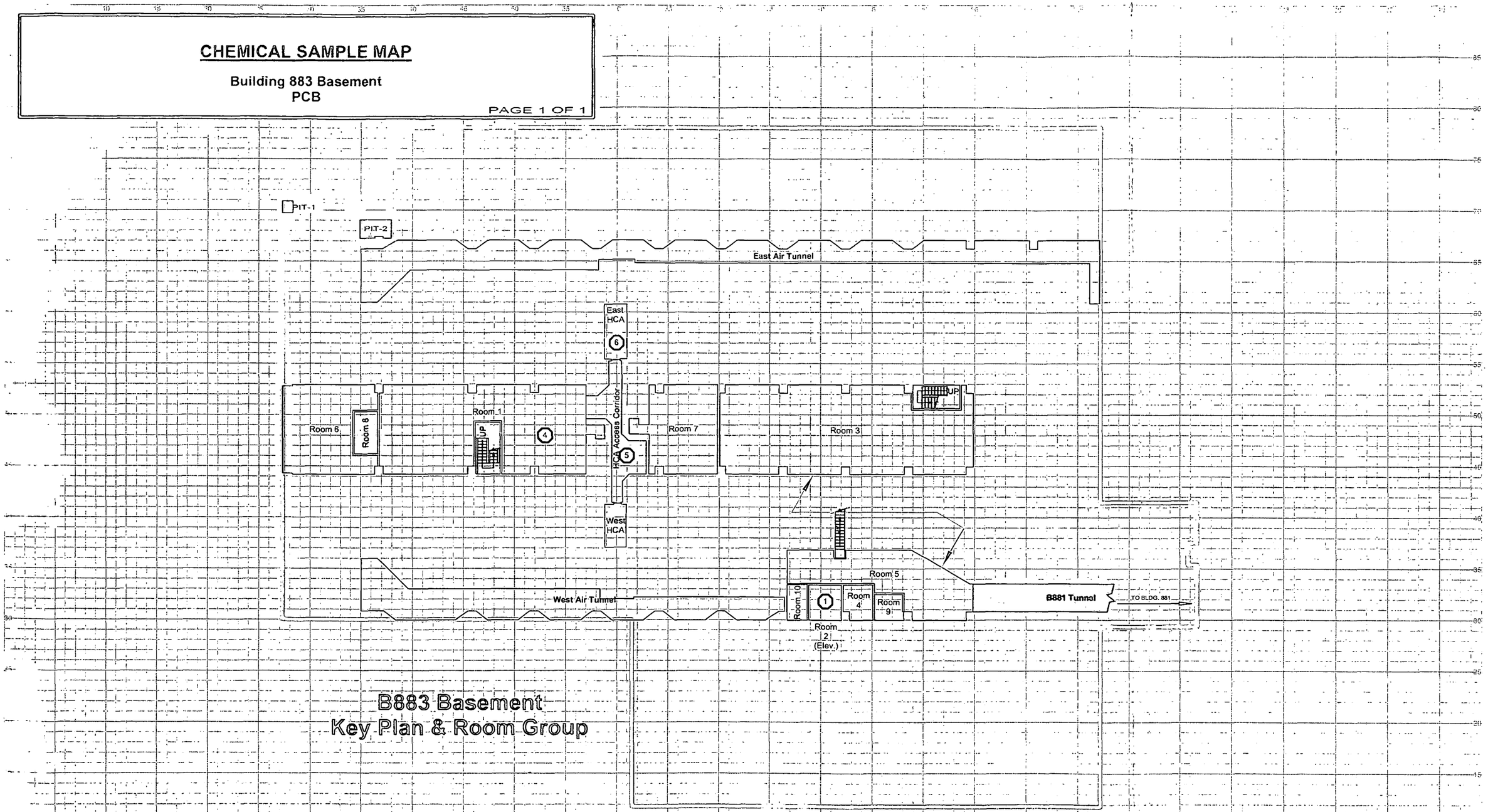
CHEMICAL SAMPLE MAP

Building 883 Basement
PCB



SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCB Sample Location
- Open/Inaccessible Area
- Area in Another Survey Unit

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ATTACHMENT D

Data Quality Assessment (DQA) Detail

DATA QUALITY ASSESSMENT (DQA)

VERIFICATION & VALIDATION (V&V) OF RESULTS

V&V of the data confirm that appropriate quality controls are implemented throughout the sampling and analysis process, and that any substandard controls result in qualification or rejection of the data in question. The required quality controls and their implementation are summarized in a tabular, checklist format for each category of data – radiological surveys and chemical analyses (specifically beryllium, metals, VOCs, SVOCs and PCBs).

DQA criteria and results are provided in a tabular format for each suite of surveys or chemical analyses performed. The radiological survey assessment is provided in Table D-1, Beryllium in Table D-2, Volatile Organic Compounds (VOCs) in D-3, Semi-Volatile Organic Compounds (SVOCs) in Table D-4, Metals in Table D-5 and Polychlorinated Biphenyls (PCBs) in Table D-6. A data completeness summary for all results is given in Table D-7.

All relevant Quality records supporting this report are maintained in the RISS Characterization Project File. The report will be submitted to the CERCLA Administrative Record for permanent storage within 30 days of approval by the Regulators. The clean area radiological data are organized into Survey Packages, which correlate to unique (MARSSIM) Survey Units. LLW area radiological data is organized by major building area. Chemical data are organized by RIN (Report Identification Number) and are traceable to the sample number and corresponding sample location.

Beta/gamma survey designs were implemented for Building 883 based on completed RLCR data and historical and process knowledge of building operations. Survey designs were implemented based on the uranium limits used as DCGLs in the unrestricted release decision process. Survey results for the Building 883 interior were evaluated against, and were less than the uranium DCGLs (i.e., < 1,000 dpm/100cm^2 removable surface activity, < 5,000 dpm/100cm^2 average total surface activity, and no hot spots within 1 m^2 over 15,000 dpm/100cm^2). Survey results for the Building 883 exterior were evaluated against, and were less than the transuranic DCGLs (i.e., < 20 dpm/100cm^2 removable surface activity, < 100 dpm/100cm^2 average total surface activity, and no hot spots within 1 m^2 over 300 dpm/100cm^2).

Media samples were taken and analyzed by ISOCS Canberra gamma spectroscopy or BC-4s. Transuranic isotope activity and Uranium and/or other naturally occurring isotope activity were evaluated against, and were less than the Transuranic $DCGL_w$ (100 dpm/100cm^2) and the Uranium $DCGL_w$ (5,000 dpm/100cm^2) unrestricted release limits. Media results were converted to dpm/100cm^2 using the Media Conversion Table, evaluated against the transuranic and uranium DCGL limits, and are the values reported in the Radiological TSA Data Summary in support of the unrestricted release decision process. BC-4's were only used for media sample analyses once transuranic activity was no longer a concern. On this basis, all radiological results were less than the unrestricted release limits, except the remaining floor, wall and ceiling surfaces of the A-Side, B-Side, C-Side, North Side, Middle Area, East Annex, Basement, and Office Area. These areas will be managed and disposed of as LLW-PCB Bulk Product Waste or LLW-PCB remediation waste, as applicable. Refer to Section 3 and Attachment D for further discussion.

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Consistent with EPA's G-4 DQO process, the radiological survey design for each survey unit performed per PDS requirements was optimized by checking actual measurement results acquired during pre-demolition surveys against the model output with original estimates. Use of actual sample/survey (result) variances in the MARSSIM DQO model confirms that an adequate number of surveys were acquired.

DQA SUMMARY

In summary, the data presented in this report have been verified and validated relative to the quality requirements and project decisions as stated in the original DQOs. All data are useable based on qualifications stated herein and are considered satisfactory without qualification. All media surveyed and sampled yielded results less than their associated action levels and with acceptable certainties, except for the following anomalous conditions and/or areas:

- The east transite walls and steel-shelving unit in survey unit 883005 was left in place to serve as a contamination boundary and will be managed as LLW-PCB Bulk Product Waste during demolition activities. Consequently, survey points 1-6, 14-19, 38, 42-44, 49-51, 53, 56, 71 and 84 were deleted from this survey unit reducing the number of samples taken from 140 to 117. However, the minimum number of samples required per MARSSIM based on class and floor size (120 required) was still met due to the 20% correction factor built into the MARSSIM calculation. Refer to Attachment B-9, *PDS Radiological Data Summaries and Survey Maps,* for survey results and locations.
- During the in-process strip-out and decontamination phase of the Building 883 project, all areas containing loose beryllium contamination were either decontaminated to below the unrestricted release limit of 0.2 $\mu g/100cm^2$ or had fixatives applied to immobilize loose beryllium to levels below the unrestricted release limit of 0.2 $\mu g/100cm^2$. Levels up to 2.12 $\mu g/100cm^2$ were immobilized using fixative. Once the areas were pressure-washed and isolated from adjacent work areas, random and biased pre-fixative beryllium PDS swipes were collected and analyzed. If the pre-fixative swipes were above 0.1 $\mu g/100cm^2$, fixatives were applied and then post-fixative swipes were collected to ensure the areas were below the unrestricted release limit of 0.2 $\mu g/100cm^2$. Several re-wipes after fixative was applied were also above action levels. These areas were decontaminated and all re-wipe of these locations were below the unrestricted release limit of 0.2 $\mu g/100cm^2$ and investigative level of 0.1 $\mu g/100cm^2$. As a result, all final "as left" beryllium results meet the PDS unrestricted release limits. Refer to Table C-1, *Building 883 Beryllium Results,* Attachment C.
- PCB contamination was identified in the A-Side USI Pit (670 ppm) and the East Annex Pit 4 (combined Aroclors 1,000 ppm and 710 ppm – total 1,710 ppm) greater than the regulatory limit of 50 ppm. All of the USI Pit (including walls and the floor) and the floor and 6 inches of the bottom walls in Pit 4 will be removed and disposed of as LLW-PCB remediation waste during demolition activities.

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- The clean areas of 883 were surveyed using the PDSP radiological survey unit package process per MARSSIM. PDS radiological survey unit packages 883005, 883008, 883009, 883011, 883012 and 883015 were implemented in Building 883 and all results were less than the PDS unrestricted release limits. These areas of Building 883 that met the PDSP unrestricted release limits (i.e., Office area and C-Side walls & ceiling, and Room 212) have already been demolished (demolition was approved via RFCA Contact Records). However, portions of the floors in these areas were not included in the survey unit boundaries (i.e. 883005, 883008, 883009 and some of the floors in 883012) and will be managed as LLW-PCB Bulk Product Waste. The LLW areas were surveyed in accordance with the RSP requirements/process and met the project DQOs. The in-process waste disposal and LLW demolition planning surveys are contained in Attachments B-1 through B-8, *LLW Surveys*, and suffice as the PDS radiological surveys for these areas of the building. These surfaces will be removed and managed as LLW-PCB Bulk Product Waste, and include the remaining floor, wall and ceiling surfaces of the A-Side, B-Side, C-Side, North Side, Middle Area, East Annex, Basement, and Office Area. All LLW areas are designated in red on the PDS radiological survey unit maps.

Based upon an independent review of the radiological data, it was determined that the original project DQOs satisfied MARSSIM and RSP guidance. Minimum survey requirements were met, sampling/survey protocol was performed in accordance with applicable RSPs, survey units were properly designed and bounded, and instrument performance and calibration was within acceptable limits. All Building 883 demolition debris will be managed as LLW-PCB Bulk Product waste or LLW-PCB remediation waste.

Chain of Custody was intact; documentation was complete, hold times were acceptable (where applicable,) and packaging integrity/custody seals were maintained throughout the sampling/analysis process. Level 2 Isolation Controls have been posted to prevent the inadvertent introduction of further contamination into Building 883. On this basis, Building 883 is ready for demolition.

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Table D-1 V&V of Radiological Results - Building 883

V&V CRITERIA, RADIOLGICAL SURVEYS		K-H RSP 16.00 Series MARSSIM (NUREG-1575)		
QUALITY REQUIREMENTS				
	Parameters	Measure	Frequency	COMMENTS
ACCURACY	Initial calibrations	90%<x<110%	≥1	Multi-point calibration through the measurement range encountered in the field; programmatic records.
	Daily source checks	80%<x<120%	≥1/day	Performed daily/within range.
	Local area background: Field	typically < 10 dpm	≥1/day	All local area backgrounds were within expected ranges (i.e., no elevated anomalies.)
PRECISION	Field duplicate measurements for TSA	≥5% of real survey points	≥10% of reals	N/A
REPRESENTATIVENESS	MARSSIM methodology: Survey Units 883005, 883008, 883009, 883011, 883012 and 883015 (interior).	statistical and biased	NA	Random w/ statistical confidence.
	Survey Maps	NA	NA	Random and biased measurement locations controlled/mapped to ±1m.
	Controlling Documents (Characterization Pkg; RSPs)	qualitative	NA	Refer to the Characterization Package (planning document) for field/sampling procedures (located in Project files); thorough documentation of the planning, sampling/analysis process, and data reduction into formats.
COMPARABILITY	Units of measure	dpm/100cm^2	NA	Use of standardized engineering units in the reporting of measurement results.
COMPLETENESS	Plan vs. Actual surveys Usable results vs. unusable	>95% >95%	NA	See Table D-7 for details.
SENSITIVITY	Detection limits	TSA: ≤2500 dpm/100cm^2 RA: ≤500 dpm/100cm^2	all measures	MDAs ≤ 50% $DCGL_w$ per MARSSIM guidelines.

Table D-2 V&V of Beryllium Results - Building 883

V&V CRITERIA, CHEMICAL ANALYSES		DATA PACKAGE		
BERYLLIUM	**Prep: NMAM 7300** **METHOD: OSHA ID-125G**	**LAB ---->**	Reservoirs, Denver, Co. Johns Manville, Littleton, Co.	
		RIN ---->	Numerous RINs – See Table D-7	
QUALITY REQUIREMENTS		**Measure**	**Frequency**	**COMMENTS**
ACCURACY	**Calibrations** Initial	linear calibration	≥1	No qualifications significant enough to change project decisions, all final "as left" results were below associated action levels.
	Continuing	80%<%R<120%	≥1	
	LCS/MS	80%<%R<120%	≥1	
	Blanks – lab & field	<MDL	≥1	
	Interference check std (ICP)	NA	NA	
PRECISION	LCSD	80%<%R<120% (RPD<20%)	≥1	
	Field duplicate	all results < RL	≥1	
REPRESENTATIVENESS	COC	Qualitative	NA	
	Hold times/preservation	Qualitative	NA	
	Controlling Documents (Plans, Procedures, maps, etc.)	Qualitative	NA	
COMPARABILITY	Measurement units	ug/100cm^2	NA	
COMPLETENESS	Plan vs. Actual samples Usable results vs. unusable	>95% >95%	NA	
SENSITIVITY	Detection limits	MDL of 0.00084 ug/100cm^2	all measures	

Table D-3 V&V of Volatile Organic Compounds (VOCs) – Building 883

V&V CRITERIA, CHEMICAL ANALYSES			DATA PACKAGE		
VOCs	METHOD: SW8260		LAB ---->	Severn-Trent, Denver, Co.	
			RIN ---->	RIN05Z0577 RIN04Z2611	
QUALITY REQUIREMENT					COMMENTS
			Measure	frequency	
ACCURACY	calibrations	Initial	± 40%D in Response Factor	≥1/batch	No qualifications significant enough to change project decisions, all final "as left" results were below associated action levels.
		Continuing	80%<%R<120%	≥1/batch	
	LCS		80%<%R<120%	≥1/batch	
	MS		75%<%R<125%	≥1 batch	
	blanks	Lab	ug/kg	≥1/batch	
	internal standards		retention times and area factors	≥1/batch	
	surrogate		%R (variable)	≥1/batch	
PRECISION	MSD		RPD<30%	≥1/batch	
	field duplicate		all results < RL	≥1/batch	
REPRESENTATIVENESS	COC		Qualitative	NA	
	hold times/preservation		≤ 14 days	NA	
	Controlling Documents (Plans, Procedures, maps, etc.)		Qualitative	NA	
COMPARABILITY			ug/kg	NA	
COMPLETENESS	Plan vs. Actual samples usable results vs. unusable		>95% >95%	NA	
SENSITIVITY	detection limits		Various	all analytes	

Table D-4 V&V of Volatile Organic Compounds (SVOCs) – Building 883

V&V CRITERIA, CHEMICAL ANALYSES			DATA PACKAGE		
SVOCs	METHOD: SW8270		LAB ---->	Severn-Trent, Denver, Co.	
			RIN ---->	RIN05Z0577 RIN04Z2611	
QUALITY REQUIREMENT					COMMENTS
			Measure	frequency	
ACCURACY	calibrations	Initial	± 40%D in Response Factor	≥1/batch	No qualifications significant enough to change project decisions, all final "as left" results were below associated action levels.
		Continuing	80%<%R<120%	≥1/batch	
	LCS		80%<%R<120%	≥1/batch	
	MS		75%<%R<125%	≥1 batch	
	blanks	Lab	ug/kg	≥1/batch	
	internal standards		retention times and area factors	≥1/batch	
	surrogate		%R (variable)	≥1/batch	
PRECISION	MSD		RPD<30%	≥1/batch	
	field duplicate		all results < RL	≥1/batch	
REPRESENTATIVENESS	COC		Qualitative	NA	
	hold times/preservation		≤ 14 days	NA	
	Controlling Documents (Plans, Procedures, maps, etc.)		Qualitative	NA	
COMPARABILITY			ug/kg	NA	
COMPLETENESS	Plan vs. Actual samples usable results vs. unusable		>95% >95%	NA	
SENSITIVITY	detection limits		Various	all analytes	

Table D-5 V&V of Metals – Building 883

V&V CRITERIA, CHEMICAL ANALYSES			DATA PACKAGE		
Metals (total)	METHOD: SW6010/6020		LAB ---->	Severn-Trent, Denver, Co.	
			RIN ---->	RIN05Z0577 RIN04Z2611	
QUALITY REQUIREMENT					COMMENTS
			Measure	frequency	
ACCURACY	calibrations	Initial	linear calibration	≥1/batch	No qualifications significant enough to change project decisions, all final "as left" results were below associated action levels.
		Continuing	80%<%R<120%	≥1/batch	
	LCS		80%<%R<120%	≥1/batch	
	MS		75%<%R<125%	≥1/batch	
	blanks	Lab	mg/kg	≥1/batch	
	serial dilutions		%D<10%	≥1/batch	
	interference check std (ICP)		80%<%R<120%	bracket batch	
PRECISION	MSD		RPD<30%	≥1/batch	
	field duplicate		all results < RL	≥1/batch	
REPRESENTATIVENESS	COC		Qualitative	NA	
	hold times/preservation		≤180 days	NA	
	Controlling Documents (Plans, Procedures, Maps, etc.)		Qualitative	NA	
COMPARABILITY			mg/kg	NA	
COMPLETENESS	Plan vs. Actual samples usable results vs. unusable		>95% >95%	NA	
SENSITIVITY	detection limits		Various	all analytes	

Table D-6 V&V of PCBs – Building 883

V&V CRITERIA, CHEMICAL ANALYSES			DATA PACKAGE		
PCBs	METHOD: SW8082		LAB ---->	Severn-Trent, Denver, Co.	
			RIN ---->	RIN05Z0577 RIN04Z2611	
QUALITY REQUIREMENT					COMMENTS
			Measure	frequency	Two (2) PCB results greater than associated action levels, these areas will be managed and disposed of as LLW-PCB remediation waste during demolition activities.
ACCURACY	calibrations	Initial	r^2 >0.99	≥1/batch	
		Continuing	80%<%R<120%	≥1/batch	
	LCS		80%<%R<120%	≥1/batch	
	MS		75%<%R<125%	≥1/batch	
	blanks	Lab	<MDL	≥1/batch	
PRECISION	MSD		75%<%R<125%	≥1/batch	
	field duplicate		all results < RL	≥1/batch	
REPRESENTATIVENESS	COC		Qualitative	NA	
	hold times/preservation		≤30 days extract ≤45 days analysis	NA	
	Controlling Documents (Plans, Procedures, maps, etc.)		Qualitative	NA	
COMPARABILITY			ug/kg	NA	
COMPLETENESS	Plan vs. Actual samples usable results vs. unusable		>95% >95%	NA	
SENSITIVITY	detection limits		Various	all analytes	

Table D-7 Data Completeness Summary - Building 883

ANALYTE	Building/Area/Unit	Sample Number Planned (Real & QC)	Sample Number Taken (Real & QC)	Project Decisions (Conclusions) & Uncertainty	Comments (RIN, Analytical Method, Qualifications, etc.)
Beryllium	Building 883 First Floor (interior)	125 interior (75 random/30 biased)	413 interior (80 random/333 biased)	All final "as left" Beryllium results were less than associated action levels	10CFR850; OSHA ID-125G RIN04Z1531 and RIN05Z0115: C-Side RIN04Z2553 and RIN04Z2585: East Annex RIN05D0255, RIN05D0297, RIN05D0325, RIN05D0256, RIN05Z0725 and RIN05Z0575: B-Side RIN05D0258, RIN05D0335, RIN05D0349, RIN05D0353 and RIN05Z0336: North Side RIN05D0260: Old Office Area RIN05D0384, RIN05D0461 and RIN05D0462: A-Side RIN05Z0117: New Office Area RIN05Z0205: B-Side Supply Ducts RIN05Z0268: A-Side Supply Ducts RIN05Z0746: South Side o Refer to table C-1, *Building 883 1st Floor Beryllium Results,* for sample locations and results. Beryllium contamination identified during in process sampling greater than the PDS unrestricted release levels (pre fixative). However, all final "as left" beryllium results (post fixative) were less than the associated action level (0.2ug/100cm^2) or investigative level (0.1 ug/100cm^2) after fixative was applied. Refer to Section 4 and Attachment D, DQA, for further discussion.

Table D-7 Data Completeness Summary - Building 883

ANALYTE	Building/Area/Unit	Sample Number Planned (Real & QC)	Sample Number Taken (Real & QC)	Project Decisions (Conclusions) & Uncertainty	Comments (RIN, Analytical Method, Qualifications, etc.)
Beryllium	Building 883 Second Floor (interior)	57 interior (37 random/20 biased)	85 interior (44 random/41 biased)	All final "as left" Beryllium results were less than associated action levels	10CFR850; OSHA ID-125G RIN05D0261 and RIN05D0262: Old Office Area and Attic RIN05Z0327: North Area G-9 RIN05Z0118: New Office Area ∘ Refer to table C-1, *Building 883 2nd Floor Beryllium Results,* for sample locations and results. No results above action level (0.2ug/100cm^2) or investigative level (0.1 ug/100cm^2).
Beryllium	Building 883 Basement (interior)	64 interior (44 random/20 biased)	130 interior (59 random/71 biased)	All final "as left" Beryllium results were less than associated action levels	10CFR850; OSHA ID-125G RIN05D0257 and RIN05Z0724: Rooms RIN05D0258 and RIN05Z0728: West Air Tunnel RIN05D0350 and RIN05Z0723: East Air Tunnel RIN05Z0118: New Office Area ∘ Refer to table C-1, *Building 883 Basement Beryllium Results,* for sample locations and results. Beryllium contamination identified during in process sampling greater than the PDS unrestricted release levels (pre fixative). However, all final "as left" beryllium results (post fixative) were less than the associated action level (0.2ug/100cm^2) or investigative level (0.1 ug/100cm^2) after fixative was applied. Refer to Section 4 and Attachment D, DQA, for further discussion.

Table D-7 Data Completeness Summary - Building 883

ANALYTE	Building/Area/Unit	Sample Number Planned (Real & QC)	Sample Number Taken (Real & QC)	Project Decisions (Conclusions) & Uncertainty	Comments (RIN, Analytical Method, Qualifications, etc.)
Beryllium	Building 883 Room 212 (interior)	7 interior (5 random/2 biased)	7 interior (5 random/2 biased)	All final "as left" Beryllium results were less than associated action levels	10CFR850; OSHA ID-125G RIN04Z2647: Room 212 ∘ Refer to table C-1, *Building 1st Floor Beryllium Results,* for sample locations and results. No results above action level (0.2ug/100cm^2) or investigative level (0.1 ug/100cm^2).
Volatile Organic Compounds (VOCs)	Building 883 High Bay (interior)	17 plus 3 duplicates (concrete - solid)	11 plus 1 duplicate (concrete - solid)	No VOC contamination found, all results were below regulatory limits	SW8260 RIN05Z0577: sample locations 1-9 RIN04Z2611: sample locations 10 and 11
Semi-Volatile Organic Compounds (SVOCs)	Building 883 High Bay (interior)	17 plus 3 duplicates (concrete - solid)	11 plus 1 duplicate (concrete - solid)	No SVOC contamination found, all results were below regulatory limits	SW8270 RIN05Z0577: sample locations 1-9 RIN04Z2611: sample locations 10 and 11
Metals	Building 883 High Bay (interior)	17 plus 3 duplicates (concrete - solid)	11 plus 1 duplicate (concrete - solid)	No Metal contamination found, all results were below regulatory limits	SW6010/6020 RIN05Z0577: sample locations 1-9 RIN04Z2611: sample locations 10 and 11
PCBs	Building 883 (interior)	10 plus 2 duplicates (concrete - solid)	11 plus 1 duplicate (concrete - solid)	PCB contamination identified at 2 locations greater than the regulatory limits	SW8082 RIN05Z0577: sample locations 1-9 RIN04Z2611: sample locations 10 and 11 Refer to Attachment D, DQA, and Section 4 for further discussion regarding the PCB contamination identified greater than the regulatory limits. These areas will be removed and managed as PCB Remediation Waste during demolition activities.

Table D-7 Data Completeness Summary - Building 883

ANALYTE	Building/Area/Unit	Sample Number Planned (Real & QC)	Sample Number Taken (Real & QC)	Project Decisions (Conclusions) & Uncertainty	Comments (RIN, Analytical Method, Qualifications, etc.)
Radiological	Survey Area 1 Survey Unit: 883005 Building 883 Rooms 138 and 139 (Interior - All Surfaces, except LLW areas)	120 β TSA (systematic) and 120 β Smears (systematic) 6 QC TSA 100% scan of all surfaces	117 β TSA (systematic) and 117 β Smears (systematic) 7 QC TSA 100% scan of all surfaces (room 138), 33% scan of all surface (room 139)	No contamination at any location; all locations below PDS unrestricted release levels	Uranium DCGLs (1,000 dpm/100cm^2 removable; 5,000 dpm/100cm^2 average total fixed; 15,000 dpm/100cm^2 maximum total fixed). Refer to Attachment D, *Data Quality Assessment Detail,* for further discussion regarding the reduction in survey points from 120 (planned) to 117 (actual).
Radiological	Survey Area 1 Survey Unit: 883008 Building 883 Room 144 (Interior - All Surfaces, except LLW areas)	16 β TSA (systematic) and 16 β Smears (systematic) 2 QC TSA 100% scan of all surfaces	16 β TSA (systematic) and 16 β Smears (systematic) 2 QC TSA 100% scan of all surfaces	No contamination at any location; all locations below PDS unrestricted release levels	Uranium DCGLs (1,000 dpm/100cm^2 removable; 5,000 dpm/100cm^2 average total fixed; 15,000 dpm/100cm^2 maximum total fixed).

Table D-7 Data Completeness Summary - Building 883

ANALYTE	Building/Area/Unit	Sample Number Planned (Real & QC)	Sample Number Taken (Real & QC)	Project Decisions (Conclusions) & Uncertainty	Comments (RIN, Analytical Method, Qualifications, etc.)
Radiological	Survey Area 1 Survey Unit: 883009 Building 883 Room 137 (Interior - All Surfaces, except LLW areas)	21 β TSA (systematic) 21 β Smears (systematic) 2 QC TSA 100% scan of all surfaces	15 β TSA (systematic) 15 β Smears (systematic) 2 QC TSA 100% scan of all surfaces	No contamination at any location; all locations below PDS unrestricted release levels	Uranium DCGLs (1,000 dpm/100cm^2 removable; 5,000 dpm/100cm^2 average total fixed; 15,000 dpm/100cm^2 maximum total fixed).
Radiological	Survey Area 1 Survey Unit: 883011 Building 883 Rooms 116, 118 – 122, 140 – 143A, 145, Door 15 South Entry Vestibule, 214 –220 and 220A (Interior - All Surfaces, except designated LLW Areas)	20 β TSA (systematic) and 20 β Smears (systematic) 2 QC TSA 25% scan of floors, 5% of all remaining surfaces	20 β TSA (systematic) and 20 β Smears (systematic) 2 QC TSA 25% scan of floors, 5% of all remaining surfaces	No contamination at any location; all locations below PDS unrestricted release levels	Uranium DCGLs (1,000 dpm/100cm^2 removable; 5,000 dpm/100cm^2 average total fixed; 15,000 dpm/100cm^2 maximum total fixed).

Table D-7 Data Completeness Summary - Building 883

ANALYTE	Building/Area/Unit	Sample Number Planned (Real & QC)	Sample Number Taken (Real & QC)	Project Decisions (Conclusions) & Uncertainty	Comments (RIN, Analytical Method, Qualifications, etc.)
Radiological	Survey Area 1 Survey Unit: 883012 Building 883 Rooms 101, 113A, 114, 114A, 114B, 115, 117, 117A, 119A, 204, 204A, 204B, 205, 206, 208, 208A, 208B, 211 and Attic (Interior - All Surfaces, except LLW areas)	26 β TSA (23 systematic/3 biased) and 26 β Smears (23 systematic/3 biased) 2 QC TSA 25% scan of floors; 10% scan of remaining surfaces	26 β TSA (23 systematic/3 biased) and 26 β Smears (23 systematic/3 biased) 7 β TSA and 7 β RSA Media Samples (Pre and Post) 2 QC TSA 25% scan of floors; 10% scan of remaining surfaces	No contamination at any location; all locations below PDS unrestricted release levels	Uranium DCGLs (1,000 dpm/100cm^2 removable; 5,000 dpm/100cm^2 average total fixed; 15,000 dpm/100cm^2 maximum total fixed).
Radiological	Survey Area 1 Survey Unit: 883015 Building 883 Room 212 (Interior - Floors, Walls and Ceilings)	25 β TSA (15 random/10 biased) and 25 β Smears (15 random/10 biased) 2 QC TSA 10% scan of all surfaces	25 β TSA (15 random/10 biased) and 25 β Smears (15 random/10 biased) 2 QC TSA 10% scan of all surfaces	No contamination at any location; all locations below PDS unrestricted release levels	Uranium DCGLs (1,000 dpm/100cm^2 removable; 5,000 dpm/100cm^2 average total fixed; 15,000 dpm/100cm^2 maximum total fixed).