



Rocky Flats Environmental Technology Site

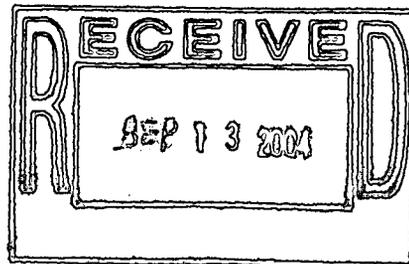
PRE-DEMOLITION SURVEY REPORT (PDSR)

BUILDING 903B CLOSURE PROJECT

REVISION 0

September 2, 2004

CLASSIFICATION REVIEW NOT REQUIRED PER
EXEMPTION NUMBER CEX-005-02



ADMIN RECORD

IA-A-002309

49

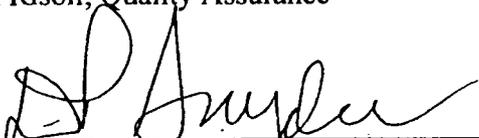
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September 2, 2004

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- A Facility Location Map
- B Radiological Data Summaries and Survey Maps
- C Chemical Data Summaries and Sample Maps
- D Data Quality Assessment (DQA) Detail

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
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

EXECUTIVE SUMMARY

A Pre-Demolition Survey (PDS) was performed to enable compliant disposition and waste management of Building 903B. Because this Type 2 building 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 the floors, walls, ceiling, roof, and equipment. Environmental media beneath and surrounding the facility 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.

Results indicated that no radiological or chemical contamination exists in excess of the PDSP unrestricted release limits. Asbestos abatement is not required per Colorado Department of Public Health and Environment (CDPHE) Regulation 8. Beryllium sample results were below the investigative level of $0.1 \mu\text{g}/100\text{cm}^2$. Any potentially PCB-containing fluorescent light ballasts 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) will be removed from the building prior to demolition.

Based upon the PDSR, Building 903B can be demolished and the waste managed as sanitary waste or PCB Bulk Product waste (if non-leaking PCB ballasts are left in the structure). To ensure that the facility remains free of 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 903B. Because this Type 2 building will be demolished, the characterization was performed in accordance with the Pre-Demolition Survey Plan (MAN-127-PDSP). Building surfaces characterized as a part of this PDS included floors, walls, ceilings, roof and equipment. Environmental media beneath and surrounding the facility 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.

An RLCR was not performed for this facility. Instead a RFCA Contact Record was written (*Building 903B and 903B Reconnaissance Level Characterization*, dated 6/30/04), that discusses the process history of the facility. Based on the process history, the facility was classified as a Type 2 RFCA facility and recorded as such in the Contact Record.

As part of the Rocky Flats Environmental Technology Site (RFETS) Closure Project, numerous facilities will be removed, among these is Building 903B. The location of this facility is shown in Attachment A, *Facility Location Map*. 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 903B. 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 Building 903B, dated April 23, 2003, Revision 0.

1.1 Purpose

The purpose of this report is to communicate and document the results of the Building 903B PDS effort. A PDS is performed prior to building demolition to define the final radiological and chemical conditions of a facility. Final 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 final radiological and chemical conditions of Building 903B. Environmental media beneath and surrounding the facility is not within the scope of this PDSR and will be addressed in accordance with the Soil Disturbance Permit process and in compliance with RFCA.

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.

2 HISTORICAL SITE ASSESSMENT

A Facility-specific Historical Site Assessment (HSA) was conducted to understand the facility history and related hazards. The HSA consisted of facility walkdowns, interviews, and document review, including review of the Historical Release Report. A RLCR was not performed for Building 903B – refer to RFCA Contact Record, DAP-024, dated June 30, 2004, for a discussion and approval for not performing the Building 903B RLCR. Based on the HSA and Contact Record, Building 903B was classified as a Type 2 Facility. The HSA results were used to identify PDS data gaps and needs, and to develop radiological and chemical PDS characterization packages. HSA documentation is located in the RISS Characterization Project files.

3 RADIOLOGICAL CHARACTERIZATION AND HAZARDS

Building 903B was characterized for radiological hazards per the PDSP. 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 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 903B Radiological Characterization Plan). Individual radiological survey unit packages are maintained in the RISS Characterization Project files.

Radiological survey unit packages 903002 (interior) and 903003 (exterior) were developed for Building 903B 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*. Radiological survey data, statistical analysis results, survey locations, and radiological scan maps are presented in Attachment B, Radiological Data Summary and Survey Maps.

Building 903B was classified as a MARSSIM Class 2 Survey Unit because this building was not expected to contain residual radioactivity greater than the $DCGL_w$, but had a potential for low levels of contamination. A total of 41 TSA measurements (37 systematically grid, and 4 QC) and 37 RSA measurements (37) were taken and scan surveys performed. Alpha scan surveys of 20% of accessible interior and exterior surfaces (211 m² minimum) at biased locations were performed. None of the measurements or scans indicated elevated activity above applicable transuranic DCGL values. Based on surveys of interior portions of tanks, sumps and other accessible equipment, all waste-water processing equipment associated with B903 (located both inside and outside of the building) meets the PDSP unrestricted release criteria. Radiological survey data, statistical analysis results, survey locations, and radiological scan maps are presented in Attachment B, *Radiological Data Summary and Survey Maps*.

4 CHEMICAL CHARACTERIZATION AND HAZARDS

Building 903B 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 the facility. 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 sample numbers. The contaminants of concern were asbestos and beryllium. 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.

4.1 Asbestos

A survey of building materials suspected of containing asbestos was conducted in Building 903B during the PDS. A CDPHE-certified asbestos inspector conducted the inspections, and suspect materials were identified for sampling at the discretion of the inspector. No suspect materials were identified, therefore, asbestos sampling was not performed as part of the PDS.

4.2 Beryllium (Be)

Seven (7) biased beryllium smear samples were collected on the interior surfaces of Building 903B in accordance with the PDSP and the *Beryllium Characterization Procedure*, PRO-536-BCPR, Revision 0, September 9, 1999. All beryllium PDS smear sample results for Building 903B were less than the investigative limit of 0.1 $\mu\text{g}/100\text{cm}^2$. PDS beryllium laboratory sample data and location maps are contained in Attachment C, *Beryllium Data Summaries and Sample Maps*.

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

Based on the HSAR, facility walk-downs and a review of RFETS waste management databases, Building 903B was used to manage wastewater from equipment decontamination activities. The water was collected at 903B before being transferred to Building 891. There are no documented or suspected spills of the decontamination water within the 903B facility. Additionally, the water from 903B has only contained trace amounts of RCRA/CERCLA constituents, well below levels that would lead to a concern of contamination above regulatory limits. On this basis, sampling was not performed as part of this PDS.

Painted surfaces were not sampled for lead. Environmental Waste Compliance Guidance #27, *Lead-based Paint (LBP) and Lead-based paint Debris Disposal*, states that LBP debris generated outside of currently identified High Contamination Areas shall be managed as non-hazardous (solid) wastes, and additional analysis for characteristics of hazardous waste derived from LBP is not a requirement for disposal. There were no High Contamination Areas associated with Building 903B.

The building may contain some RCRA regulated items, such as mercury thermostats, fluorescent light bulbs, mercury vapor light bulbs, mercury containing gauges, circuit boards, and lead-acid batteries. These items will be removed and managed in accordance with the Colorado Hazardous Waste Act prior to demolition.

4.4 Polychlorinated Biphenyls (PCBs)

Based on the HSAR, interviews, facility walk downs and a review of historical WSRIC processes, PCBs were not introduced into the facility, therefore, sampling for PCBs was not conducted as part of this PDS.

Based on the age of Building 903B, paints used on the facility did not contain PCBs; and therefore, painted surfaces will not be managed as PCB Bulk Product Waste. Painted concrete surfaces can be used as backfill on site in accordance with approval received from EPA in November 2001 (letter from K. Clough, US EPA Region 8, to J. Legare, DOE RFFO, 8EPR-F, Approval of the Risk-Based Approach for Polychlorinated Biphenyls (PCB)-Based Painted Concrete), provided the concrete meets the unrestricted-release criteria outlined in the Concrete Recycling RSOP.

Although unlikely, The facility may have contained PCB fluorescent light ballasts, however, all leaking PCB ballasts, and those greater than 9 pounds, will be removed from the facility and managed appropriately. If non-leaking PCB ballasts remain in the building during demolition the debris will be managed as PCB Bulk Product waste.

5 PHYSICAL HAZARDS

Physical hazards associated with Building 903B consists of those common to standard industrial environments, and include hazards associated with energized systems, utilities, and trips and falls. There are no other unique hazards associated with the facility. The facility has been relatively well maintained and is in good physical condition, and 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 903B, and consequent waste management, are 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 903B will generate sanitary waste (if PCB ballasts remain in the structure during demolition the structural debris will be managed as PCB Bulk Product waste). Estimated waste volumes are presented below. PCB ballast and hazardous waste items will be removed and managed pursuant to Site PCB and waste management procedures prior to demolition.

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)
903B	1,400	0	1,700	1,000	0	0	None

8 FACILITY CLASSIFICATION AND CONCLUSIONS

Based on the PDS analysis of radiological, chemical and physical hazards, Building 903B meets PDSP unrestricted release criteria. PCB ballast and hazardous waste items will be removed and disposed of in compliance with Environmental Protection Agency (EPA) and Colorado Department of Public Health and Environment (CDPHE) regulations prior to demolition.

The PDS for Building 903B was performed in accordance with the DDCP and PDSP, all PDSP DQOs were met, and all data satisfied the PDSP DQA criteria. Environmental media beneath and surrounding the facility will be addressed at a future date in accordance with the Soil Disturbance Permit process and in compliance with RFCA. To ensure that Building 903B remains free of contamination and PDS data remain valid, Level 2 Isolation Controls have been established and the facility posted accordingly.

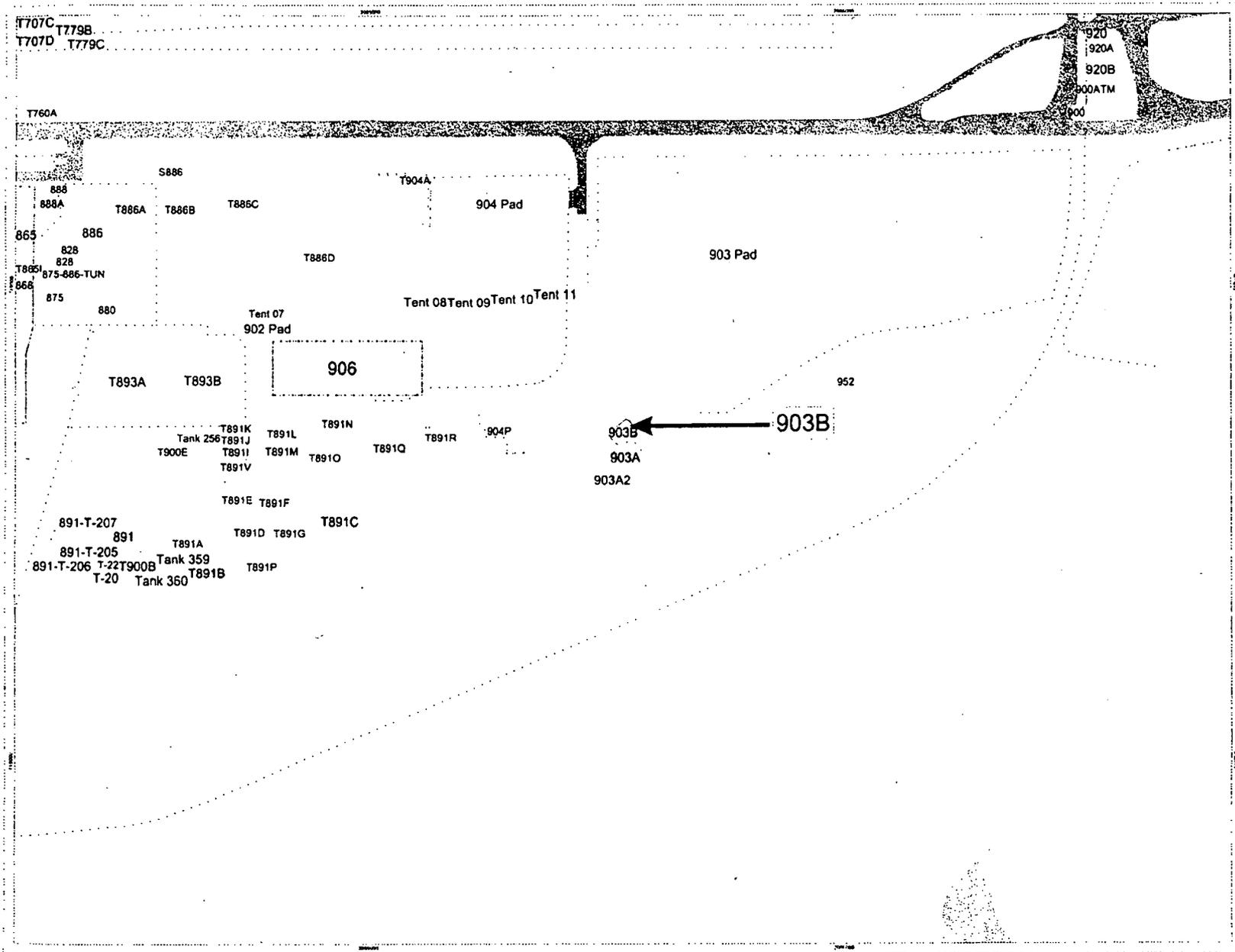
9 REFERENCES

- 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
- Historical Site Assessment Report for the Area 5 – Group 14 Facilities*, dated December 2002, Revision 0.
- RFCA Contact Record, *Building 903B and 903B Reconnaissance Level Characterization*, dated 6/30/04.
- Closure Description Document For Partial Closure Of RCRA Interim Status Unit 18.01*, DOE Letter 04-DOE-00081, Dated March 11, 2004.

ATTACHMENT A

Facility Location Map

11



Rocky Flats Environmental Technology Site
903B Location Map

Map Features

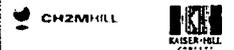
- Buildings Remaining
- 903B
- D&D Facility
- Paved Roads
- Dirt Roads
- Lakes
- Streams
- Railroad Removed
- Railroad Remaining
- Fence Removed
- Fence Remaining



1:1,000
 1 inch equals 88 feet

State Plane Coordinate Projection
 Colorado Central Zone (5476)
 Datum: NAD27

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



W:\Projects\2004\07-903B Location Map.mxd

ATTACHMENT B

Radiological Data Summaries and Survey Maps

Survey Area: 5

Survey Unit: 603102

Building: 603B

Description: Building 603B Dismantling

Rocky Flats Environmental Technology Site Final Radiological Survey Summary Results

Total Surface Activity Measurements

Nbr Random Measurements Required: 15

Nbr Biased Measurements Required: 0

Nbr QC Required: 2

Nbr Random Measurements Performed: 21

Nbr Biased Measurements Performed: 0

Nbr QC Performed: 2

Alpha

Maximum:	23.0 dpm/100cm ²
Minimum:	-8.4 dpm/100cm ²
Mean:	0.3 dpm/100cm ²
Standard Deviation:	7.1
QC Maximum:	10.1 dpm/100cm ²
QC Minimum:	5.5 dpm/100cm ²
QC Mean:	7.8 dpm/100cm ²
Transuranic DCGL _w :	100.0 dpm/100cm ²
Transuranic DCGL _{EMC} :	300.0 dpm/100cm ²

Removable Surface Activity Measurements

Nbr Random Measurements Required: 15

Nbr Biased Measurements Required: 0

Nbr Random Measurements Performed: 21

Nbr Biased Measurements Performed: 0

Alpha

Maximum:	2.4 dpm/100cm ²
Minimum:	-0.6 dpm/100cm ²
Mean:	-0.3 dpm/100cm ²
Standard Deviation:	0.8
Transuranic DCGL _w :	20.0 dpm/100cm ²

Media Sample Results

Nbr Random Required: 0

Nbr Biased Required: 0

Nbr Random Collected: 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: 05

Survey Unit: 90302

Building: 903E

Description: Building 903E Down Slope Area

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/100cm ²)		Survey Type
							Alpha	Beta	Alpha	Beta	
1	702058	08/27/04	Electra	677	DP-6	01/23/05	0.193	NA	48.0	NA	T/S
2	903346	08/27/04	Electra	1379	DP-6	02/18/05	0.220	NA	48.0	NA	T/S
3	702058	08/27/04	Electra	1415	DP-6	10/27/04	0.217	NA	48.0	NA	S
4	701418	08/28/04	Electra	1379	DP-6	02/18/05	0.220	NA	48.0	NA	S
5	700831	08/28/04	Electra	1415	DP-6	10/27/04	0.217	NA	48.0	NA	T
6	702058	08/28/04	SAC-4	961	NA	09/30/04	0.330	NA	10.0	NA	R

Survey Types: T = Total Surface Activity, Q = TSA QC, S = Scan, R = Removable Surface Activity, I = Investigation

Survey Area:

Survey Unit: 903002

Building: 903B

Description: Building 903B Decon Station Interior

Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm ²)	Net Beta (dpm/100cm ²)	
903002PRP-N001	6	-0.6	N/A	
903002PRP-N002	6	-0.6	N/A	
903002PRP-N003	6	-0.6	N/A	
903002PRP-N004	6	-0.6	N/A	
903002PRP-N005	6	2.4	N/A	
903002PRP-N006	6	-0.6	N/A	
903002PRP-N007	6	-0.6	N/A	
903002PRP-N008	6	-0.6	N/A	
903002PRP-N009	6	-0.6	N/A	
903002PRP-N010	6	-0.6	N/A	
903002PRP-N011	6	-0.6	N/A	
903002PRP-N012	6	-0.6	N/A	
903002PRP-N013	6	-0.6	N/A	
903002PRP-N014	6	-0.6	N/A	
903002PRP-N015	6	-0.6	N/A	
903002PRP-N016	6	-0.6	N/A	
903002PRP-N017	6	-0.6	N/A	
903002PRP-N018	6	-0.6	N/A	
903002PRP-N019	6	0.9	N/A	
903002PRP-N020	6	-0.6	N/A	
903002PRP-N021	6	0.9	N/A	

Comments:

Survey Area: 5

Survey Unit: 903002

Building: 903B

Description: Building 903B Decoy Station Interior

Random/QC Total Surface Activity Data Sheet

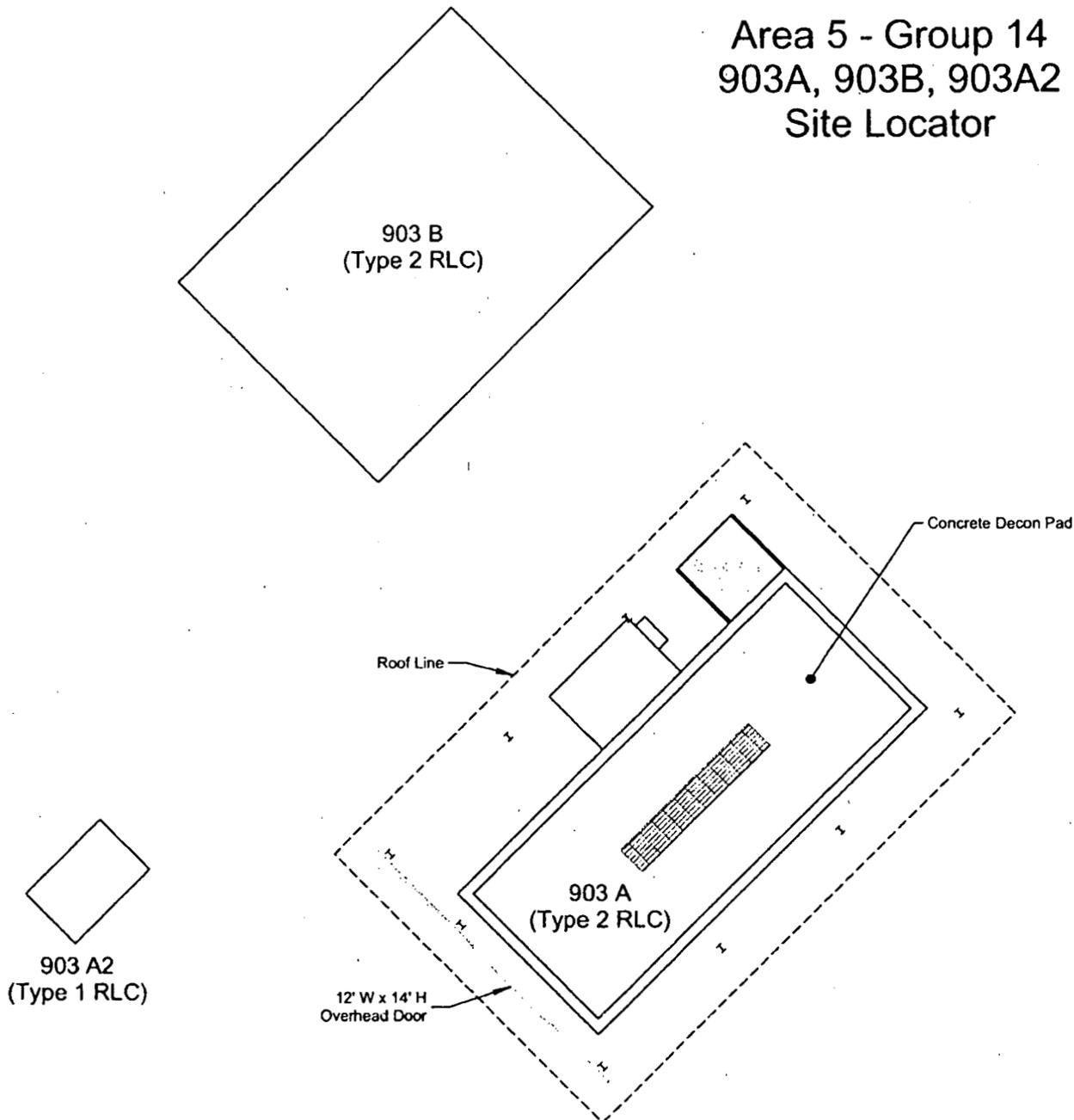
Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm ²)	Net Beta (dpm/100cm ²)	
903002PRP-N001	2	23.0	N/A	
903002PRP-N002	1	2.0	N/A	
903002PRP-N003	2	-6.1	N/A	
903002PRP-N004	1	-5.3	N/A	
903002PRP-N005	2	-2.9	N/A	
903002PRP-N006	1	10.3	N/A	
903002QRP-N006	5	10.1	N/A	
903002PRP-N007	2	0.3	N/A	
903002PRP-N008	1	-8.4	N/A	
903002PRP-N009	2	-2.9	N/A	
903002PRP-N010	1	-5.3	N/A	
903002PRP-N011	2	6.2	N/A	
903002PRP-N012	1	2.0	N/A	
903002PRP-N013	2	-2.9	N/A	
903002PRP-N014	1	2.0	N/A	
903002PRP-N015	2	-6.1	N/A	
903002PRP-N016	1	-5.3	N/A	
903002PRP-N017	2	3.0	N/A	
903002QRP-N017	5	5.5	N/A	
903002PRP-N018	1	-1.6	N/A	
903002PRP-N019	2	6.2	N/A	
903002PRP-N020	1	2.0	N/A	
903002PRP-N021	2	-2.9	N/A	

Comments:

TYPE 1 & 2 PDS SURVEYS FOR AREA 5, GROUP 14

Survey Area: 5 Survey Unit: N/A Classification: N/A
 Buildings: 903A, 903B, 903A2
 Description: Group Locator

**Area 5 - Group 14
 903A, 903B, 903A2
 Site Locator**



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):



NO SCALE
 This map for reference only.

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

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

CH2MHILL
 A General Atomics Group

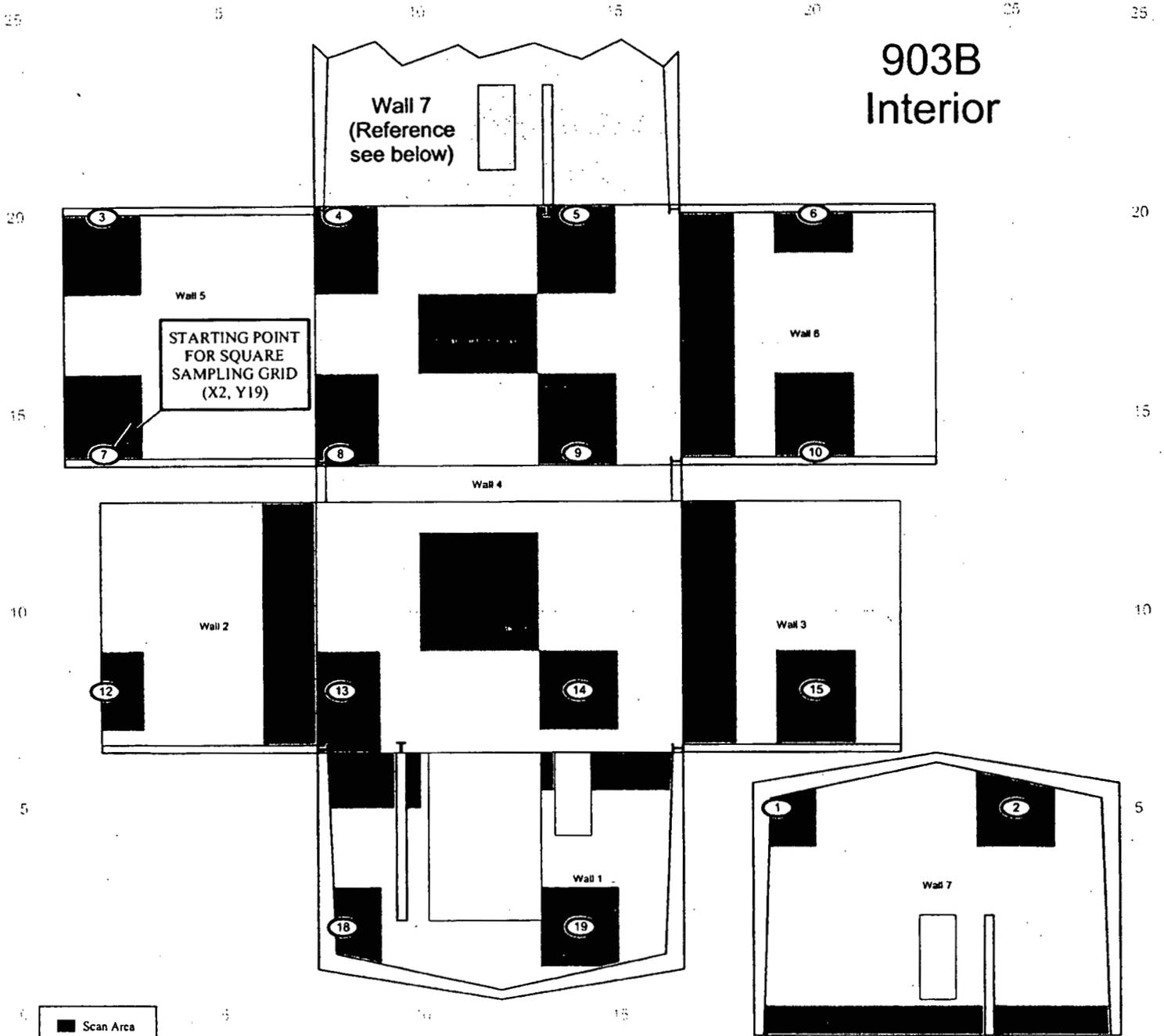
KAISER HILL

MAP ID: 03-0000 June 16, 2003

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TYPE 2 PDS SURVEY FOR Building 903 B

Survey Area: 5 Survey Unit: 903002 Classification: 2
 Building: 903B
 Survey Unit Description: Bldg 903B Decon Station Interior
 Total Area: 575 sq. m. Interior Floor Area: 122 sq. m.
 Grid Spacing for Survey Points: 6m. X 6m.



<p>■ Scan Area</p>	<p>Neither the United States Government, nor Kaiser Hill Co., nor CH2M Hill, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.</p>	<p align="center">NE</p> <p align="center">↑</p>	<p align="center">0 FEET 15</p> <p align="center">0 METERS 5</p>	<p align="center">U.S. Department of Energy Rocky Flats Environmental Technology Site</p>
<p>SURVEY MAP LEGEND</p> <p>⊙ Smear & TSA Location</p> <p>⊕ Smear, TSA & Sample Location</p> <p>■ Open/Inaccessible Area</p> <p>□ Area in Another Survey Unit</p>	<p>Scan Survey Information Survey Instrument ID #(s) & RCT ID #(s): 1, 2, 3, 4</p>	<p>1 inch = 12 feet 1 grid sq. = 1 sq. m.</p>	<p>Prepared by: GIS Dept. 303-966-7707</p>	<p>Prepared for:</p>
<p>CH2MHILL Communications Group</p>		<p>KAISER HILL</p> <p>MAP ID: 03-JS/903B_PG1-SC Aug. 31, 2004</p>		

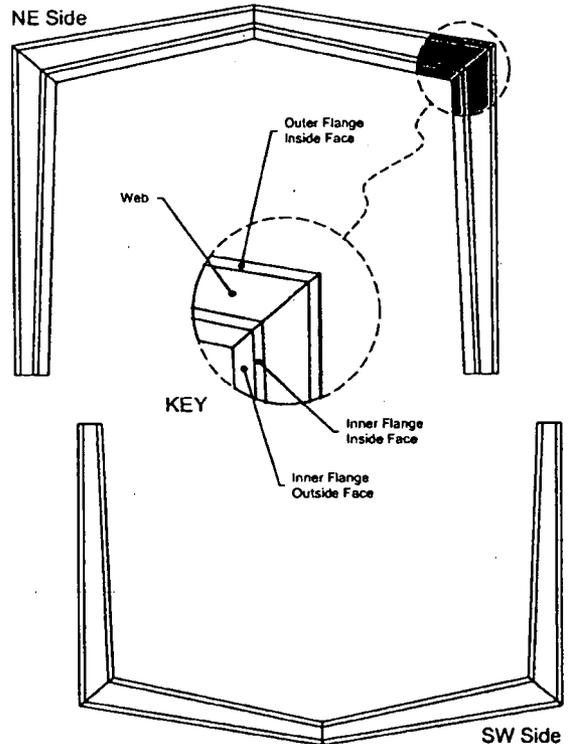
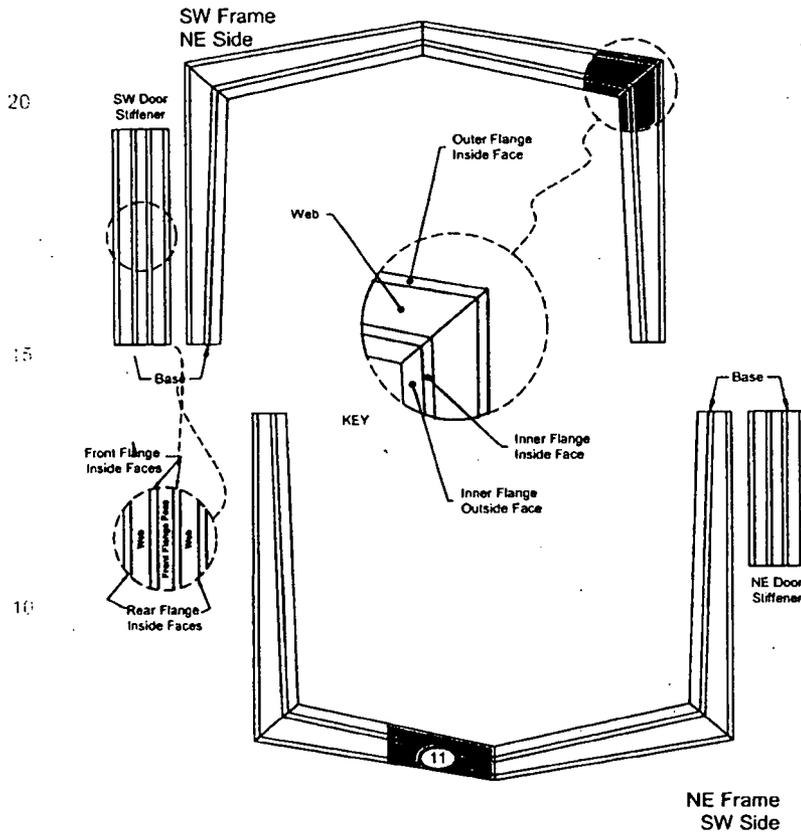
21

TYPE 2 PDS SURVEY FOR Building 903 B

Survey Area: 5 Survey Unit: 903002 Classification: 2
 Building: 903B
 Survey Unit Description: Bldg 903B Decon Station Interior
 Total Area: 575 sq. m. Interior Floor Area: 122 sq. m.
 Grid Spacing for Survey Points: 6m. X 6m.

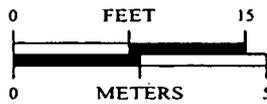
903B Interior End Frames

903B Interior Center Frames



- 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

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

Prepared for:



CH2MHILL
 CONSULTING GROUP



MAP ID: 03-JS/903B_PG2-SC

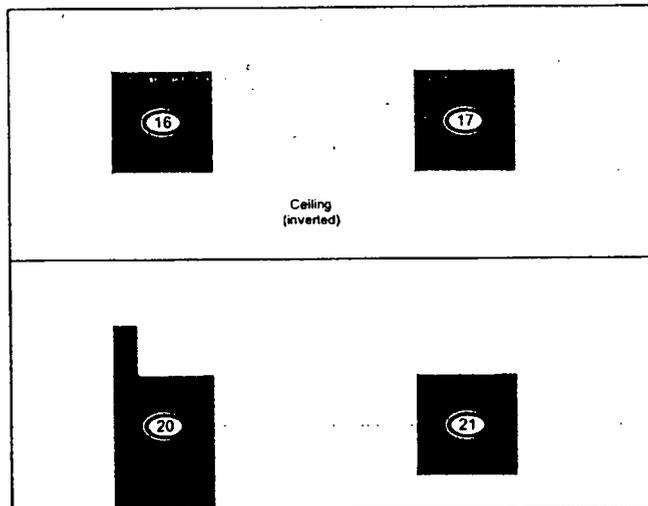
Aug. 31, 2004

TYPE 2 PDS SURVEY FOR Building 903 B

Survey Area: 5 Survey Unit: 903002 Classification: 2
 Building: 903B
 Survey Unit Description: Bldg 903B Decon Station Interior
 Total Area: 575 sq. m. Interior Floor Area: 122 sq. m.
 Grid Spacing for Survey Points: 6m. X 6m.

PAGE 3 OF 3

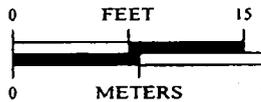
**903B Interior
 Ceiling (inverted)**



SURVEY MAP LEGEND

- Smcar & TSA Location
- Smcar, 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

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 Prepared for:

MAP ID: 03-JS/903B_PG3-SC Aug. 31, 2004

Survey Area: 6

Survey Unit: 903003

Building: 583B

Doc: 571001 | Building: 903B | Dept: 601 | Station: 6000

Rocky Flats Environmental Technology Site Final Radiological Survey Summary Results

Total Surface Activity Measurements

Nbr Random Measurements Required: 15

Nbr Biased Measurements Required: 0

Nbr QC Required: 2

Nbr Random Measurements Performed: 16

Nbr Biased Measurements Performed: 0

Nbr QC Performed: 2

Alpha

Maximum:	96.7 dpm/100cm ²
Minimum:	-1.5 dpm/100cm ²
Mean:	39.6 dpm/100cm ²
Standard Deviation:	35.3
QC Maximum:	75.3 dpm/100cm ²
QC Minimum:	25.6 dpm/100cm ²
QC Mean:	50.4 dpm/100cm ²
Transuranic DCGL _w :	100.0 dpm/100cm ²
Transuranic DCGL _{EMC} :	300.0 dpm/100cm ²

Removable Surface Activity Measurements

Nbr Random Measurements Required: 15

Nbr Biased Measurements Required: 0

Nbr Random Measurements Performed: 16

Nbr Biased Measurements Performed: 0

Alpha

Maximum:	3.0 dpm/100cm ²
Minimum:	0.0 dpm/100cm ²
Mean:	0.9 dpm/100cm ²
Standard Deviation:	1.1
Transuranic DCGL _w :	20.0 dpm/100cm ²

Media Sample Results

Nbr Random Required: 0

Nbr Biased Required: 0

Nbr Random Collected: 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: 5 Survey Unit: 53003 Building: 00AB
 Description: Building 00AB Deck Stairs 53003

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/100cm ²)		Survey Type
							Alpha	Beta	Alpha	Beta	
1	700831	08/25/04	Electra	1415	DP-6	10/27/04	0.217	NA	48.0	NA	T/S
2	511390	08/25/04	Electra	1379	DP-6	02/18/05	0.220	NA	48.0	NA	T/S
4	511390	08/30/04	Electra	1415	DP-6	10/27/04	0.217	NA	48.0	NA	T/S
5	700831	08/31/04	Electra	3102	DP-6	02/19/05	0.223	NA	48.0	NA	T/S
6	511390	08/31/04	Electra	3370	DP-6	02/16/05	0.221	NA	48.0	NA	Q/S
7	511390	08/31/04	SAC-4	961	NA	09/30/04	0.330	NA	10.0	NA	R

Survey Types: T = Total Surface Activity, Q = TSA QC, S = Scan, R = Removable Surface Activity, I = Investigation

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Random Removable Surface Activity Data Sheet

Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm ²)	Net Beta (dpm/100cm ²)	
903003PRP-N001	7	1.5	N/A	
903003PRP-N002	7	1.5	N/A	
903003PRP-N003	7	1.5	N/A	
903003PRP-N004	7	0.0	N/A	
903003PRP-N005	7	0.0	N/A	
903003PRP-N006	7	0.0	N/A	
903003PRP-N007	7	0.0	N/A	
903003PRP-N008	7	0.0	N/A	
903003PRP-N009	7	3.0	N/A	
903003PRP-N010	7	3.0	N/A	
903003PRP-N011	7	0.0	N/A	
903003PRP-N012	7	0.0	N/A	
903003PRP-N013	7	1.5	N/A	
903003PRP-N014	7	1.5	N/A	
903003PRP-N015	7	1.5	N/A	
903003PRP-N016	7	0.0	N/A	

Comments:

26

Survey Area: S

Survey Unit: 90303

Building: 9038

Description: Building 9038 E. of Station E24106

Random/QC Total Surface Activity Data Sheet

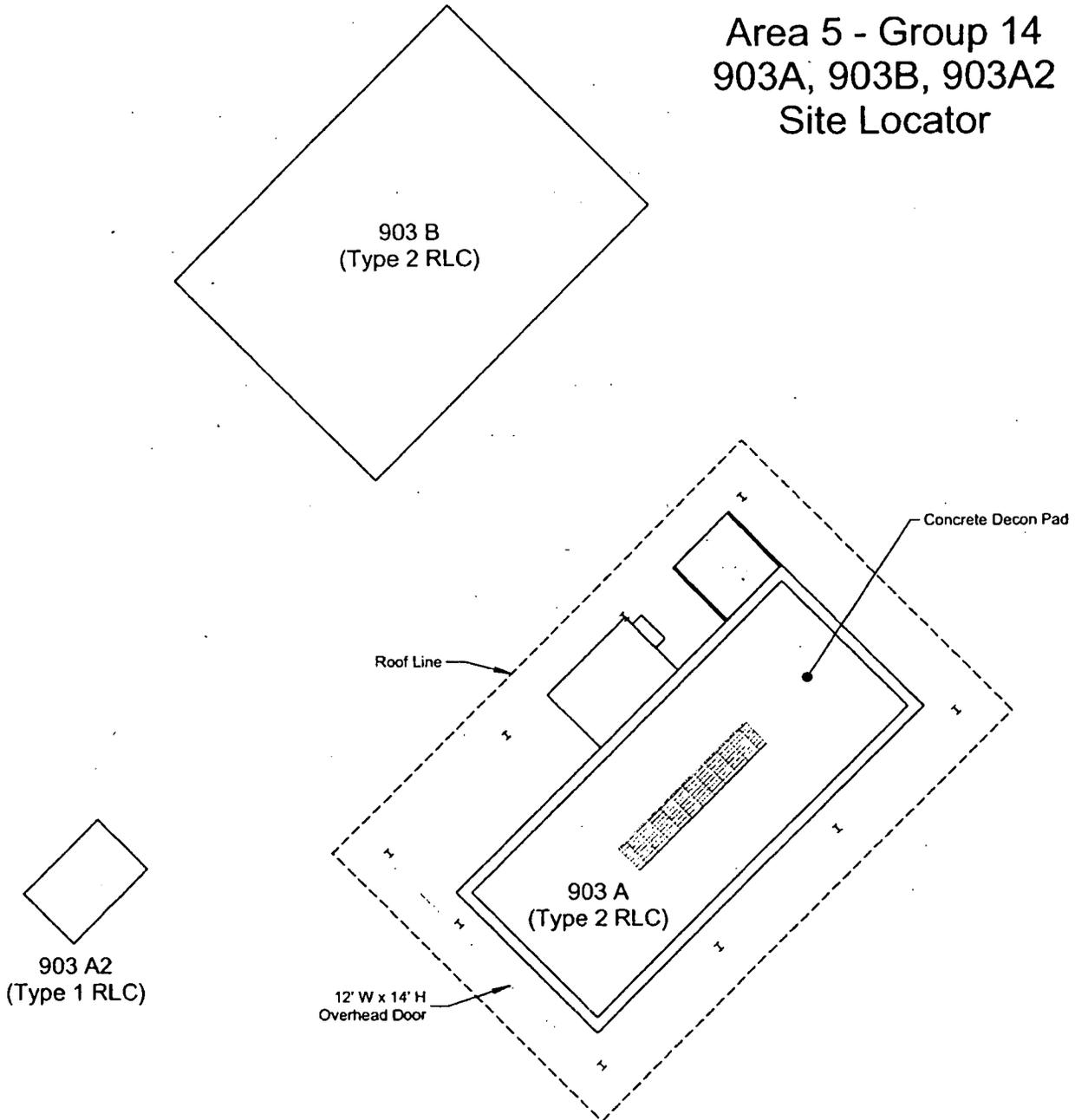
Random Measurement Location	Inst / RCT Nbr	Net Alpha (dpm/100cm ²)	Net Beta (dpm/100cm ²)	
903003PRP-N001	1	-1.5	N/A	
903003PRP-N002	1	4.5	N/A	
903003PRP-N003	4	20.2	N/A	
903003PRP-N004	4	29.4	N/A	
903003PRP-N005	5	96.7	N/A	
903003PRP-N006	5	81.9	N/A	
903003PRP-N007	5	72.9	N/A	
903003PRP-N008	1	1.8	N/A	
903003PRP-N009	1	7.7	N/A	
903003PRP-N010	1	23.0	N/A	
903003QRP-N010	6	25.6	N/A	
903003PRP-N011	1	13.7	N/A	
903003PRP-N012	5	81.9	N/A	
903003QRP-N012	6	75.3	N/A	
903003PRP-N013	5	69.8	N/A	
903003PRP-N014	5	87.7	N/A	
903003PRP-N015	4	13.7	N/A	
903003PRP-N016	4	29.4	N/A	

Comments:

TYPE 1 & 2 PDS SURVEYS FOR AREA 5, GROUP 14

Survey Area: 5 Survey Unit: N/A Classification: N/A
 Buildings: 903A, 903B, 903A2
 Description: Group Locator

**Area 5 - Group 14
 903A, 903B, 903A2
 Site Locator**



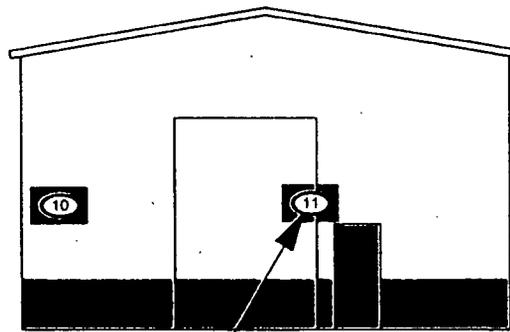
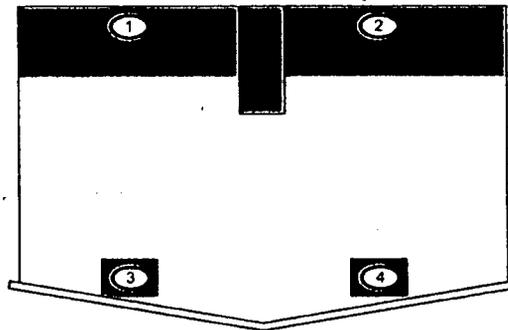
<p>SURVEY MAP LEGEND</p> <ul style="list-style-type: none"> Smear & TSA Location Smear, TSA & Sample Location Open/Inaccessible Area Area in Another Survey Unit 	<p>Neither the United States Government, nor Kaiser Hill Co., nor CH2M Hill, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.</p> <p>Scan Survey Information Survey Instrument ID #(s) & RCT ID #(s):</p>	<p style="text-align: center;">N ↑</p> <p style="text-align: center;">NO SCALE This map for reference only.</p>	<p style="text-align: center;">U.S. Department of Energy Rocky Flats Environmental Technology Site</p> <p>Prepared by: GIS Dept. 303-966-7707 Prepared for:</p> <div style="display: flex; justify-content: space-around;">   </div> <p>MAP ID: 03-0000 June 16, 2003</p>
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TYPE 2 PDS SURVEY FOR Building 903 B

Survey Area: 5 Survey Unit: 903003 Classification: 2
 Building: 903B
 Survey Unit Description: Bldg 903B Decon Station Exterior
 Total Area: 389 sq. m. Interior Floor Area: 122 sq. m.
 Grid Spacing for Survey Points: 5m. X 5m.

903B Exterior

NorthEast
Elevation



SouthWest
Elevation

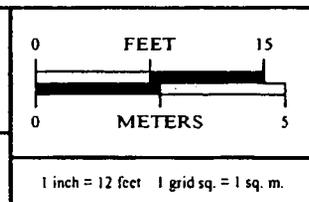
STARTING POINT
FOR SQUARE
SAMPLING GRID
(X14, Y8)

SURVEY MAP LEGEND	
	Smcar & TSA Location
	Smcar, 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, 4, 5, 6



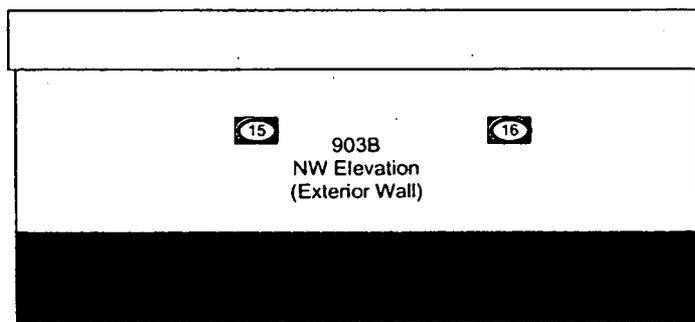
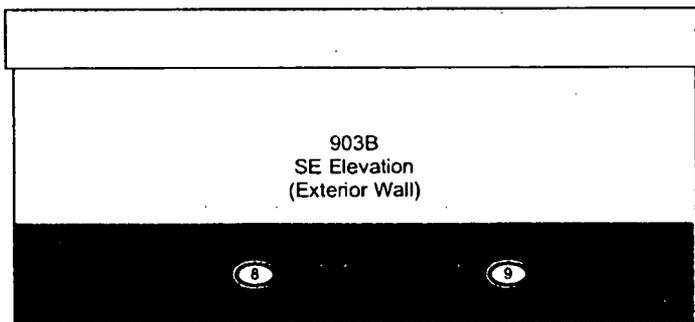
U.S. Department of Energy Rocky Flats Environmental Technology Site	
Prepared by: GIS Dept. 303-966-7707	Prepared for:
 CH2MHILL Communications Group	
MAP ID: 03-JS/903B_Ext_PG1-SC	Sept. 1, 2004

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TYPE 2 PDS SURVEY FOR Building 903 B

Survey Area: 5 Survey Unit: 903003 Classification: 2
 Building: 903B
 Survey Unit Description: Bldg 903B Decon Station Exterior
 Total Area: 389 sq. m. Interior Floor Area: 122 sq. m.
 Grid Spacing for Survey Points: 5m. X 5m.

**903B
Exterior**

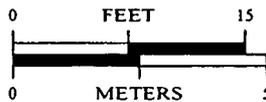


SURVEY MAP LEGEND	
	Smear & TSA Location
	Smear, TSA & Sample Location
	Open/Inaccessible Area
	Area in Another Survey Unit

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Scan Survey Information
 Survey Instrument ID #(s) & RCT ID #(s):
 1, 2, 4, 5, 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

Prepared for:



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 Communications Group



MAP ID: 03-JS/903B_Ext_PG2-SC

Sept. 1, 2004

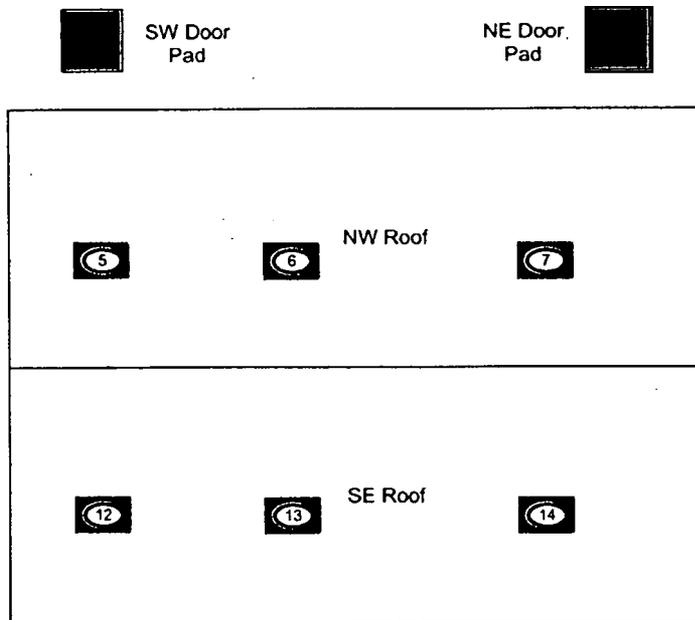
30

TYPE 2 PDS SURVEY FOR Building 903 B

Survey Area: 5 Survey Unit: 903003 Classification: 2
 Building: 903B
 Survey Unit Description: Bldg 903B Decon Station Exterior
 Total Area: 389 sq. m. Interior Floor Area: 122 sq. m.
 Grid Spacing for Survey Points: 5m. X 5m.

PAGE 3 OF 3

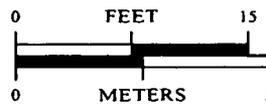
903B Exterior (Roof)



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, 4, 5, 6

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

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Prepared for:



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MAP ID: 03-JS/903B_Ext_PG3-SC

Sept. 1, 2004

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ATTACHMENT C

Chemical Data Summaries and Sample Maps

Beryllium Data Summary

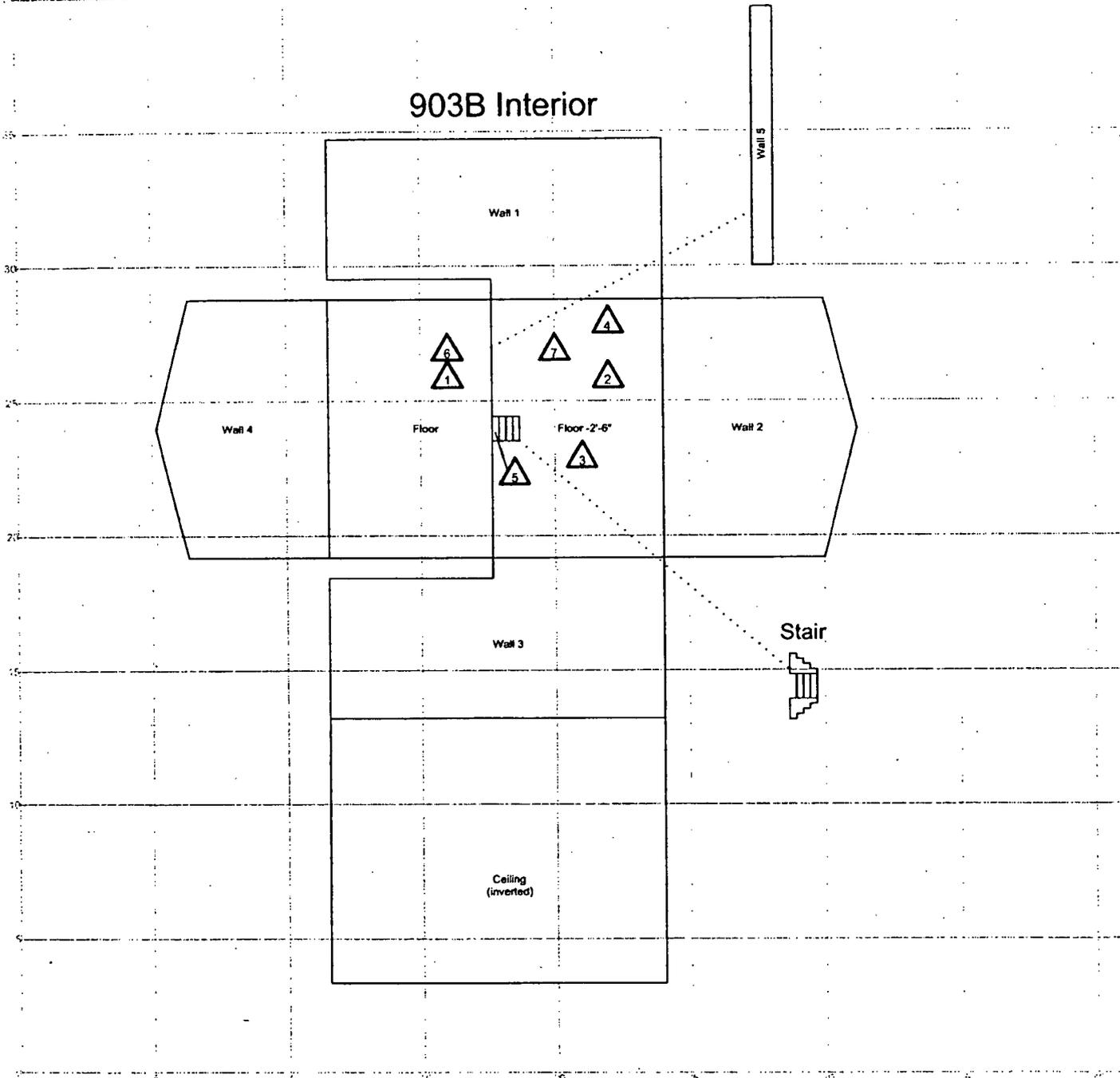
Sample Number	Map Survey Point Location	Room	Sample Location	Result (ug/100 cm ²)
Building 903B - RIN04Z2520				
903B-08252004-9-001	1	Main	Floor - West Side	< 0.1
903B-08252004-9-002	2	Main	Floor - East Side	< 0.1
903B-08252004-9-003	3	Main	Inside tank T205	< 0.1
903B-08252004-9-004	4	Main	Inside tank T105	< 0.1
903B-08252004-9-005	5	Main	Steps - top center	< 0.1
903B-08252004-9-006	7	Main	Electrical Panel T103-P104	< 0.1
903B-08252004-9-006	7	Main	T104	< 0.1

CHEMICAL SAMPLE MAP

Building 903B
Beryllium

PAGE 1 OF 1

903B Interior



<p>SURVEY MAP LEGEND</p> <ul style="list-style-type: none"> Asbestos Sample Location Beryllium Sample Location Lead Sample Location RCRA/CERCLA Sample Location PCB Sample Location 		<p>Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&ET, nor any agency thereof, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any information, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.</p>	<p>N ↑</p>	<p>0 25 FEET</p> <p>0 8 METERS</p> <p>1 inch = 18 feet 1 grid sq. = 1 sq. m.</p>	<p>U.S. Department of Energy Rocky Flats Environmental Technology Site</p> <p>Prepared by: GIS Dept. 303-966-7707 Prepared for:</p> <p>CH2MHILL Communications Group</p> <p>MAP ID: 03-02011903B01-BE Aug. 30, 2004</p>
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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).

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 and beryllium in Table D-2. A data completeness summary for all results is given in Table D-3.

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. All radiological data are organized into Survey Packages, which correlate to unique (MARSSIM) Survey Units. 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 not implemented for Building 903B based on the conservatism of the transuranic limits used as DCGLs in the unrestricted release decision process. Survey designs were implemented based on the transuranic limits used as DCGLs in the unrestricted release decision process. All survey results were evaluated against, and were less than the Transuranic DCGL_w (100 dpm/100cm²) and the Uranium DCGL_w (5,000 dpm/100cm²) unrestricted release limits.

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.

Based upon an independent review of the radiological data, it is determined that the original project DQOs satisfied MARSSIM 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 were within acceptable limits. All results meet the PDS unrestricted release criteria.

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 contamination into the facility. On this basis, Building 903B meets the unrestricted release criteria with the confidences stated herein.

Table D-1 V&V of Radiological Results - Building 903B

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 Unit 903002 (interior) and 903003 (exterior).	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-3 for details.
SENSITIVITY	Detection limits	TSA: ≤50 dpm/100cm ² RA: ≤10 dpm/100cm ²	all measures	PDS MDAs ≤ 50% DCGL _w

Table D-2 V&V of Beryllium Results - Building 903B

V&V CRITERIA, CHEMICAL ANALYSES		DATA PACKAGE		COMMENTS
BERYLLIUM	Prep: NMAM 7300 METHOD: OSHA ID-125G	LAB ---->	Johns Manville, Littleton, Co.	
		RIN ---->	RIN04Z2520	
QUALITY REQUIREMENTS		Measure	Frequency	No qualifications significant enough to change project decisions. All results were below associated action levels and investigative levels.
ACCURACY	Calibrations Initial	linear calibration	≥1	
	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	>95%	NA	
	Usable results vs. unusable	>95%		
SENSITIVITY	Detection limits	MDL of 0.00084 ug/100cm ²	all measures	

Table D-3 Data Completeness Summary - Building 903B

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 903B (interior)	10 biased	7 biased	No contamination found at any location	10CFR850; OSHA ID-125G RIN04Z2520 No results above the action level (0.2 ug/100cm ²) or investigative level (0.1 ug/100cm ²).
Radiological	Survey Area 5 Survey Unit: 903002 Bldg. 903B – Decon Station (Interior)	21 α TSA (systematic) 21 α Smears (systematic) 2 QC TSA 20% scan	21 α TSA (systematic) 21 α Smears (systematic) 2 QC TSA 20% scan	No contamination at any location; all values below unrestricted release levels	Transuranic DCGLs used.
Radiological	Survey Area 5 Survey Unit: 903003 Bldg. 903B Decon Station (Exterior)	16 α TSA (random) 16 α Smears (random) 2 QC TSA 20% scan	16 α TSA (random) 16 α Smears (random) 2 QC TSA 20% scan	No contamination at any location; all values below unrestricted release levels	Transuranic DCGLs used.

RECEIVED

2004 SEP -1 A 7 51

CORRESPONDENCE
CONTROL



August 30, 2004

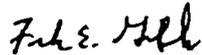
04-RF-00891

Gary Morgan, Functional Lead
Cadre Project Management Division
DOE, RFPO

RSOP FOR FACILITY DISPOSITION NOTIFICATION LETTER FOR BUILDING 903B
FEG-027-04

Attached is a draft transmittal letter to the Colorado Department of Public Health and Environment for the RSOP notification for Building 903B facility disposition. The draft transmittal letter has been prepared from DOE building point of contact to CDPHE building point of contact; however, it could also be addressed from DOE RFCA coordinator to CDPHE RFCA coordinator.

Please contact Steve Nesta X6386 with questions or concerns.



Frank E. Gibbs
Deputy Project Manager
Remediation, Industrial D&D, and Site Services

Attachment:
As Stated

Orig. and 1 cc - Gary Morgan

cc:
Joe Legare

Kaiser-Hill Company, L L C

5400
Rocky Flats Environmental Technology Site, 10808 Hwy. 93 Unit B, Golden, CO 80403-8200 • 303-966-7000

42

David Kruchek
Colorado Department of Health and Environment
4300 Cherry Creek Drive South
Denver, CO 80222-1530

RSOP FOR FACILITY DISPOSITION NOTIFICATION LETTER FOR BUILDING 9038

Mr. Kruchek:

In accordance with the Rocky Flats Cleanup Agreement Standard Operating Protocol (RSOP) for Facility Disposition, this letter and its attachments is notification for RSOP implementation. This notification is for all activities required to demolish and disposition Building 903B.

In a Contact Record dated June 30, 2004, between D. Parsons and D. Kruchek (DAP-024), it was agreed that 903B was a Type 2 facility due to potential contamination. CDPHE concurred that decontamination activities could take place, that a formal RLC report would not be submitted, and that a pre-survey and report would be performed and submitted for approval prior to demolition. The PDSR is submitted concurrently for approval with this notification. Building demolition debris meets the unrestricted release criteria.

This work will be conducted by Kaiser-Hill Company, L.L.C (K-H). The requirements, methods, controls, and processes outlined in the RSOP will be followed. This work will be conducted in accordance with the work control documentation prepared by K-H and its subcontractor. The exact methods and process and progress of the activities will be communicated to DOE/LRA through the consultative process. A schedule for this work is attached.

As indicated in the RSOP, the LRA has 14 days to review the RSOP notification letter and provide feedback, including a definitive reason for not proceeding with the project. If no feedback is received within 14 days, the project will proceed as planned.

If you have any questions regarding this, please contact me at (303) 966-2133.

Gary Morgan
U.S. Department of Energy

DESCRIPTION OF PLANNED ACTIVITIES

Facility Description and Scope of Demolition

Building 903B was built in 1995 and housed tanks and equipment that was used as part of the Decontamination Pad for Environmental Restoration projects. Nothing could be brought to the Decontamination Pad unless it had less than 20 dpm contamination and no RCRA constituents.

Building 9038 was serviced by the following utilities: electric. Fire protection was provided by wall mounted fire extinguishers.

Demolition of the structure will be executed by heavy equipment. All building debris, including the slab and tanks, will be managed as non-routine sanitary waste and disposed at an RFETS approved landfill (Front Range or BFI - Commerce City).

Pre-Demolition Survey Report (PDSR)

A Pre-Demolition Survey report (PDSR) has been prepared that verifies the effectiveness of the decontamination process and establishes the building as being ready for demolition. The PDSR is being submitted concurrently with this RSOP notification.

Project-specific Administrative Record File Index

Attached

Deviations or Exceptions to the to the RSOP

None

Level One Schedule for Project Implementation

Attached

Point of Contact

The principle point of contact for this project is Harry Linsinbigler, (303) 966-5101.

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE
REGULATORY CONTACT RECORD**

Date/Time: 6/30/04 – 0700

Site Contact(s): Duane Parsons (RISS) – (DAP-024)
Phone: (303) 966-6458

Regulatory Contact: David Kruchek, CDPHE
Phone: (303) 692-3328

Agency: CDPHE

Purpose of Contact: Building 903A and 903B Reconnaissance Level Characterization

Meeting Attendance

D. Parsons, RISS D. Kruchek, CDPHE

Discussion

Buildings 903A and 903B area “anticipated Type 2 RFCA facilities” per the RISS RFCP Facility List. These facilities were used for the decontamination of environmental restoration equipment, such as drilling rigs, field vehicles and sampling equipment. 903A was the high-pressure wash facility, and 903B was the wastewater management facility for 903A.

Contaminates of concern in these facilities are radiological and RCRA/CERCLA contaminants. Based on the age of the facilities (constructed in 1993 and 1995) asbestos should not be present. The facilities do not have a history of beryllium contamination and are not on the List of Known Beryllium Areas. During 903A and 903B operations, only trace amounts of radioactive and RCRA contaminants were identified in the wastewater and sediment.

Based on building use process knowledge and the potential for radiological contamination and/or RCRA/CERCLA constitutes, these facilities are assumed to be RFCA Type 2 facilities. Areas having a potential for contamination and needing decontamination have been identified (i.e., process equipment, tanks, piping, and sump pits), and stripout and/or decontamination work is ready to proceed. The RCRA Unit

18.01 associated with 903A and 903B will be closed in accordance with the approved CDD.

Since the areas having a potential for contamination and needing decontamination have already been identified, the Building 903A and 903B Type 2 RLC Report will not be completed. CDPHE concurs that Buildings 903A and 903B are Type 2 RFCA Facilities, and decontamination activities can proceed upon submission and approval of appropriate RSOP notifications. A formal RLC report will not be submitted. A pre-demolition survey and report will be performed and submitted for approval prior to demolition.

There are two small wooden sheds next to the 903A building, which will be released for unrestricted use utilizing the WRE process. These sheds were used to house and store clean support equipment for 903A operations.

Contact Record Prepared By: D. Parsons

Required Distribution:

J. Legare, DOE
C. Deck, K-H
D. Shelton, K-H
C. Gilbreath, K-H
S. Gunderson, CDPHE
L. Kilpatrick, K-H

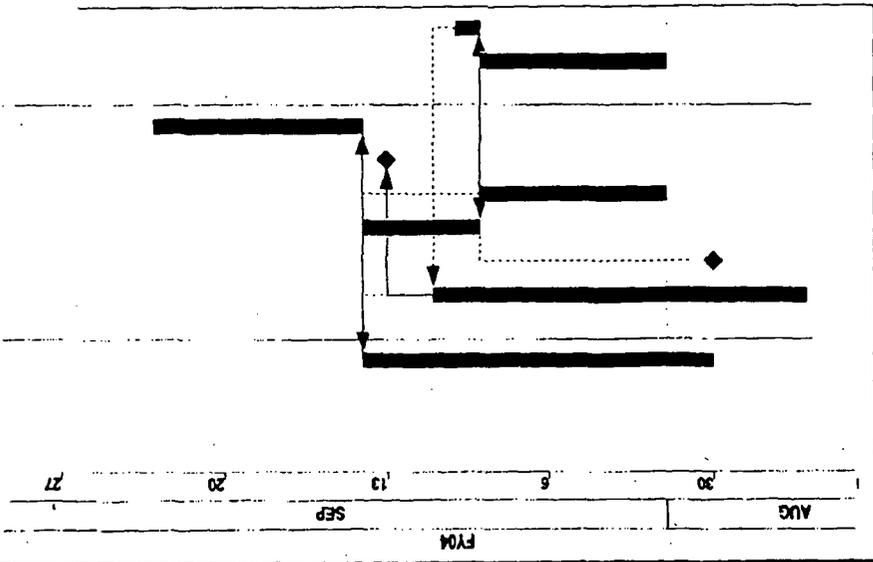
R. Leitner, K-H
J. Mead, K-H
S. Nesta, K-H
K. North, K-H
T. Rehder, USEPA

Additional Distribution:

H. Linsinbigler, K-H
F. Gibbs, K-H
D. Kruchek, CDPHE
G. Morgan, DOE

4/2/75

Activity ID	Activity Description	% Comp	Orig Dur	Rem Dur	Current Early Start	Current Early Finish
Demolition Crew						
903B - Decon Pad Sediment & Water Holding Tks						
Characterization						
1EFD1903B	8903B POSR Subm/Approv	0	10'	10'	30AUG04	13SEP04
Demolition						
1EFD1904G	8903B Demo Permi	0	11'	14'	26AUG04A	10SEP04
1EFD1903A	8903B Carberra Vacate	0	0	0	30AUG04	13SEP04
1EFD1904E	8903B Equip Remv (Pumps Under Tanks) If Needed	0	2	2	08SEP04	13SEP04
1EFD1904C	8903B Demo Wk Pkg	0	4	4	01SEP04	08SEP04
1EFD1904H	8903B RTW Demol/Loadout	0	0	0	13SEP04	08SEP04
1EFD1904D	8903B Demol/Loadout	0	6	6	14SEP04	22SEP04
Utility Isolations						
1EFD1904A	8903B Util Iso Wk Pkg - Elec	0	4	4	01SEP04	08SEP04
1EFD1904B	8903B Util Iso - Elec	0	1	1	09SEP04	09SEP04



Start Date
Finish Date
Run Date

01FEB99
07JUN06
23AUG04
26AUG04 12:40

PODC - RISS

89038

Sheet 1 of 1