

REF: 03-RE-01212

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# Final Project Closeout Report

For  
**Building 449A**

August 11 2003

Remediation, Industrial D&D, and Site Services  
Kaiser-Hill Company, LLC

Review for Classification

Name:

Date:

*[Handwritten signature]*

8/12/03

AUG 2003  
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RESTORATION CENTER

B444-A-000056

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## I. Introduction

The Building 449A closure project was completed in accordance with the Rocky Flats Compliance Agreement Standard Operating Protocol (RSOP) for Facility Disposition and the RSOP for Facility Component Removal, Size Reduction, and Decontamination Activities. This document was prepared in accordance with Facility Disposition Program Manual and summarizes the actions taken and the final condition of Building 449A.

Building 449A was located on the south half of Rocky Flats Environmental Technical Site (RFETS), just south of Cottonwood Ave between 3<sup>rd</sup> and 7<sup>th</sup> streets, southeast side of Building 444 (See RFETS Building 449A Final Closeout Report Plot Plan, Appendix 1). The structure is within the 444 Cluster. Various Maintenance Groups used Building 449A Maintenance Annex to support Building 444 Operations. Recent operations include minimal use by the Telecommunications Group.

Decontamination and Decommissioning (D&D) effort required dismantlement and removal of interior equipment and chemical decontamination of interior surfaces, removal of all supporting structures, and utilities.

Based on the analysis of radiological, chemical, and physical hazards, Building 449A was classified as Rocky Flats Compliance Agreement (RFCA) Type 2 facilities pursuant to the RFETS Decommissioning Program Plan (DPP; K-H 1999).

## II. Action Description

D&D work included removal of all equipment systems, building structures, utilities (electrical and mechanical disconnects), some decontamination of overhead structures, and demolition and cleanup of the Building 444 Complex Perimeter Buildings. Electrical power and telephone line services were provided to Building 449A through Building 449. These lines were removed during the demolition of Building 449. The only above grade structure left in place was the asphalt pavement where the building was located; there are no lines or utilities under the pavement. In summary, the project consisted of decontamination, dismantling of systems and equipment, pre-demolition surveys, facility demolition, hazardous waste segregation, and waste packaging and disposal. Asbestos containing materials and hazardous-waste items were removed prior to demolition and disposed of in compliance with Colorado Department of Public Health and Environment (CDPHE) and Environmental Protection Agency (EPA) regulations. All demolition debris was managed and disposed of in compliance with regulations governing debris disposal, as applicable.

There was no concrete removal associated with this facility. Environmental media beneath and surrounding the facility will be addressed at a future date using the Soil Disturbance Permit process and in compliance with the Industrial SAP and ER RSOP, as appropriate.

Building 449A was located directly southeast of Building 444. The physical size of Building 449A was approximately 34 feet wide X 40 feet long X 18 feet high at the roof peak. Two 40 feet X 8 feet X 8 feet steel conex containers were connected to the east and west sides of the building. The conex container located on the west side of the building was disposed of as sanitary waste with fixed beryllium contamination. The conex container located on the east side of the building was declared excess, given unrestricted property released approval, and sent to PU&D for reutilization. See attached Declaration of Excess, Appendix 2.

### III. Verification That Action Goals Were Met

Five action objectives were established for the Building 449A Removal Project prior to beginning the demolition, during demolition, and after demolition:

- *Decontamination of the facility (as necessary) to support release for decommissioning per site approved procedures.*

The facility was decontaminated to free-release standards and placed in the off-site landfill or declared excess material and sent to PU&D for unrestricted property released.

- *Decommissioning the facility in accordance with RFCA and applicable or relevant and appropriate requirements.*

RFCA and other relevant requirements were complied throughout the project. Documents including RFETS RLCR, RSOP for Facility Disposition, Regulatory Contact Records, Demolition Approval Notice, and follow-up investigation sampling results were obtained and provided to CDPHE for review and concurrence, as appropriate. See Appendix 5 for Regulatory Contact Records and Demolition Approval Notice. See Appendix 4 for Follow-up Investigation Sampling for Beryllium.

- *Complete decontamination and decommissioning activities in a manner that is protective of site workers, the public and the environment.*

Decontamination and decommissioning activities were completed within regulatory requirements. Site specific requirements including work-site and task specific training, personal protective equipment, job site safety and health inspections, heavy equipment hazards, as well as other project specific demolition requirements, were evaluated and oversight provided.

- *Demolish 449A facility structures and utilities.*

Demolition consisted of equipment removal, building structures, utilities and some decontamination. There were no underground utilities.

- *Environmental Restoration for characterization as well as sampling and analysis of native soils under the former building asphalt pad and reclamation of the site.*

Removal of the asphalt pad will be done during future D&D activities within the 444 Cluster. Areas occupied by Building 449A will be included in Environmental Restoration's characterization of IHSS Group 400-3 (Building 444/447 cluster). Remediation activities, if required, will be conducted according to the Environmental Restoration RFCA Standard Operating Protocol (ER RSOP) for Soil Remediation.

**IV. Verification of Treatment Process**

Not applicable to this project.

**V. Radiological Analysis**

A Reconnaissance Level Characterization (RLC) was performed to enable facility "Typing" per the DPP and compliant disposition and waste management. Because the facility was anticipated to be Type 1 facility, the characterization was performed in accordance with the Pre-Demolition Survey Plan (MAN-127-PDSP). All facility surfaces were characterized including the interior and exterior surfaces (i.e., floors slab, wall, ceilings, and roof). Results indicated that no radiological contamination existed in excess of the PDSP unrestricted release limits of DOE Order 5400.5. A copy of Building 449A Reconnaissance Level Characterization Report can be found in Appendix 3 of this document.

Initial exterior TSA measurements did indicate elevated activity above the transuranic DCGL<sub>w</sub> values. Additional coupon samples were collected and analyzed by gamma spectroscopy, result confirmed all activity was due to uranium and other naturally occurring isotopes. All elevated readings were less than the uranium DCGL<sub>w</sub> values. The radiological survey unit packages are maintained in the RISS Characterization Project files for review.

**VI. Demolition Survey Results**

Performance monitoring for Radionuclides during Building 449A demolition was not required. All elevated readings were less than the uranium DCGL<sub>w</sub> values. Fugitive dust emissions control was addressed prior to initiating demolition activities. Controlled water spray was planned, but not required due to minimal dust emissions during demolition of Building 449A.

Beryllium contamination was found in the overhead structures of Building 449A. These portions of Building 449A were decontaminated and post-decontamination smear results were less than the investigative level of 0.1 µg/100cm<sup>2</sup>. Since Building 449A was partially contaminated the structure was deemed Type 2 facility. CDPHE requested additional characterization of the attic portion of Building 449A before the PDS could be considered completed. Subsequent follow-up investigation sampling was performed. Additional beryllium surface samples were collected on the overhead structures inside Building 449A. All samples results were less than the PDSP unrestricted release criteria (0.2 µg/100cm<sup>2</sup>) as well as less than the PDSP investigation criteria (0.1 – 0.2 µg/100cm<sup>2</sup>). See Appendix 4, for Building 449A Follow-up Investigation Sampling for Beryllium.

**VII. Waste Steam Disposition**

No.	Waste Type	Material Transfer and Disposal Facility
1.	<i>Sanitary Disposal</i>	
	Disposal Site:	BFI, Tower Road Landfill, Commerce City, CO
	Waste Volume (m3)	61.0 cubic meters
	Waste Weight (tons)	10.3 tons

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2.	<b>Hazardous Disposal</b>	Kettleman Hills facility, Kettleman City, CA or Bethlehem Apparatus Co, Hellertown, PA
	Waste Volume (m3):	Minor amounts
	Additional Information:	Electronic circuit boards, thermostats, exit signs, batteries, fluorescent lights bulbs and any other RCRA hazardous components were removed and taken for combination with like waste streams for disposal.
3.	<b>TSCA Waste Disposal:</b>	Salesco, Phoenix, AZ; Clean Harbors Deer Park, Deer Park, TX; or FBI Tower Rd. Landfill, Commerce City, CO.
	Waste Volume (m3):	Minor amounts
	Additional Information:	PCB ballasts were removed and packaged for disposal.
4.	<b>Property Disposition:</b>	
	Receiver Location	RFETS ILSI
	Items(s)	Conex Container, PCN#00019938-00

**VIII. Deviations From the Decision Document**

Building 449A was anticipated to be Type 1 facility; however, beryllium contamination was found in overhead structures and the building designated Type 2 facility. These portions were decontaminated and post-decontamination smear results were less than the PDSP unrestricted release criteria (0.2 µg/100cm<sup>2</sup>) as well as less than the PDSP investigation criteria (0.1 µg/100cm<sup>2</sup>).

**IX. Description of Site Condition at End of Decommissioning**

All above ground structures along with the supporting stanchions and power drop have been removed. The only above ground structure left in place is the asphalt pavement. See Section III, 5<sup>th</sup> Bullet, for final disposition of the asphalt pavement.

**X. Demarcation of Waste Left In Place**

Removal and segregation of the asphalt pad from other wastes will be done during future D&D activities within the 444 Cluster. See Section III, 5<sup>th</sup> Bullet, for final disposition of the asphalt pavement.

**XI. Dates and Duration's of Project Activities**

Beginning in August 2002, and continuing through February 2003, loose property removal, and some equipment dismantlement, and decontamination was accomplished by Rocky Flats Closure Site Services (RFCSS). RFCSS is the Facility Management Subcontractor for the area, reporting to Kaiser-Hill (KH). In February 2003, T-P Enterprises, Inc. commenced the actual demolition project with project management performed by RISS. Following are the dates and/or duration of the key activities for the Building 449A demolition project:

<u>Activity Description</u>	<u>Completed/Obtained</u>
• Release Evaluation approvals	Nov 4, 02 through Jan 23, 03
• RLCR Approval (CDPHE)	Dec 24, 02
• Decontamination	Jan 22, 03
• Demolition Approval Notices	Jan 27, 03
• Decontamination follow-up notification (CDPHE)	Feb 5, 03
• RFCA RSOP for FD Notification (to DOE)	Feb 7, 03
• Demolition	Feb 12, 03 through Feb 17, 03

**XII. Final Disposition of Wastes**

See Section VII.

**XIII. Next Steps for Building 449A**

Environmental media beneath and surrounding the facility was not within the scope of this Project and will be addressed at a future date using the Soil Disturbance Permit process and in compliance with RFCA (See Section III, 5<sup>th</sup> bullet).

## **APPENDIX 1**

### **Building 449A Final Closeout Report Plot Plan**

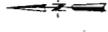
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# 444 Cluster Final Closeout Report

## EXPLANATION

- Standard Map Features**
-  Buildings and other structures
  -  Demolished buildings and Other Structures
  -  Fences and other barriers
  -  Rocky Flats Environmental Technology Site boundary
  -  Paved roads
  -  Dirt roads

**DATA SOURCES AND REFERENCES**  
 Aerial photography from 1993, 1994, 1995, and 1996.  
 Aerial photography from 1997, 1998, 1999, and 2000.  
 Aerial photography from 2001, 2002, 2003, and 2004.  
 Aerial photography from 2005, 2006, 2007, and 2008.  
 Aerial photography from 2009, 2010, 2011, and 2012.  
 Aerial photography from 2013, 2014, 2015, and 2016.  
 Aerial photography from 2017, 2018, 2019, and 2020.  
 Aerial photography from 2021, 2022, 2023, and 2024.



Scale = 1:840  
 1 inch represents 70 feet



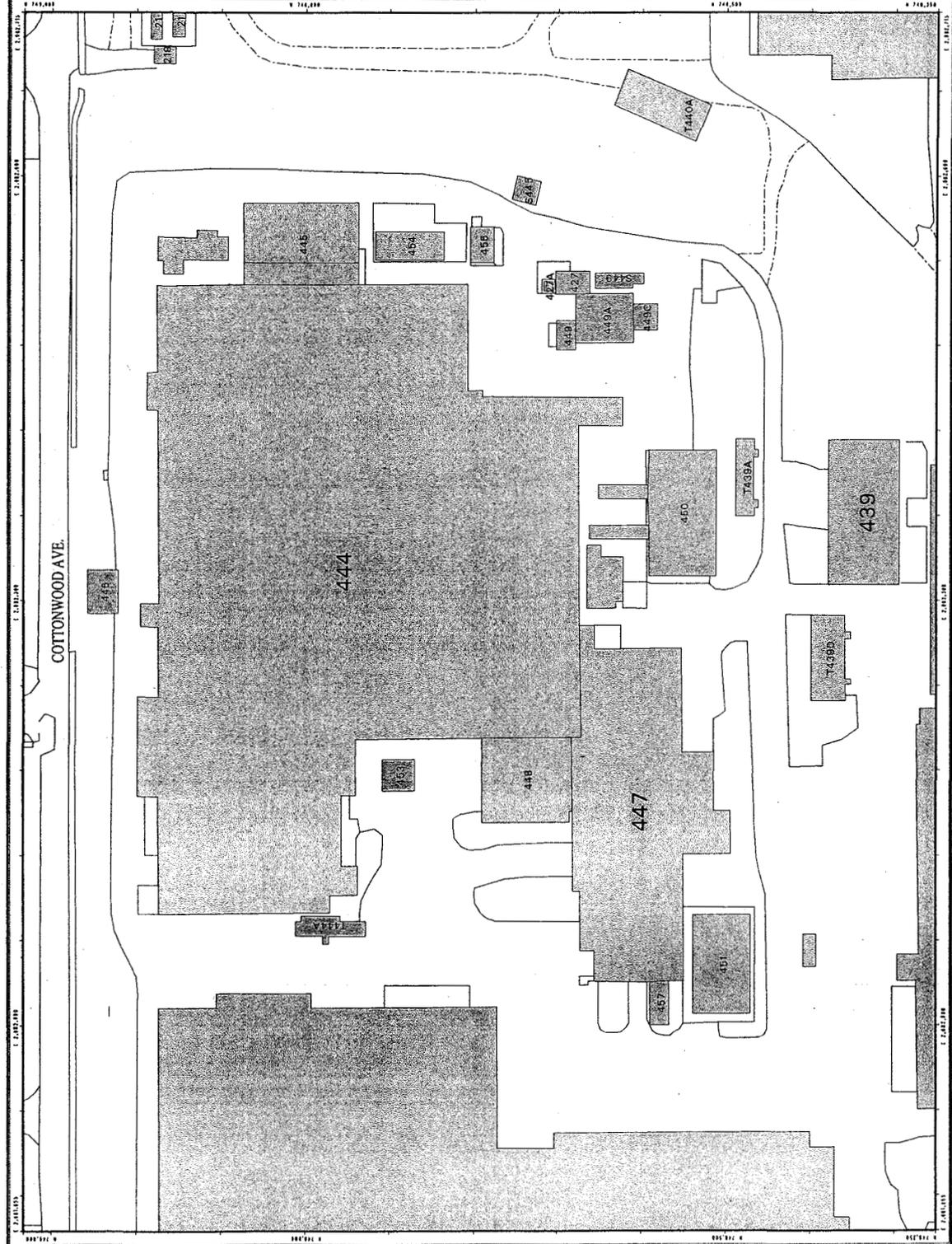
State Plane Coordinate Projection  
 Colorado Central Zone  
 Datum: NAD27

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

Prepared by: CH2M HILL  
 Date: 03/24/09



May 08, 2003



## **APPENDIX 2**

### **Declaration of Excess**

*Handwritten signature and date: 03/14/03*

# Declaration of Excess

016224

RFP F4420.02  
 Rev. 11/98

Line Item #	Property Control Number	Serial Number	Description/Manufacturer/Model Number	Qty	Unit of Issue	Cond Code	Material	Quantity													
01			CONEX CONTAINER	1	EA	4															
02			PCN # 0001993P-00																		
03																					
04																					
05																					
06																					
07																					
08																					
09																					
10																					

Transfer No. \_\_\_\_\_

**Unrestricted Property Release Approval**  
 The above described item(s) has been evaluated and/or radiologically surveyed in accordance with RSP 1.01 and is approved for unrestricted release.  
 Property Release Log No: \_\_\_\_\_  
 PWRE No: 030122-00334-01

**"High Risk" Review Certification**  
 "No ECSP/Informer" Concern  
 "High Risk" Property  
 "Export Control" Property  
 Export Control Officer \_\_\_\_\_ Date \_\_\_\_\_

**ADP Applicable Only**  
 These computer systems have met all security requirements as outlined in the appropriate ACSOs and "Computer User Handbook" (Classified and Unclassified)  
 CSO First Name \_\_\_\_\_ Employee No. \_\_\_\_\_  
 CSO Signature \_\_\_\_\_ Date \_\_\_\_\_

**Certification of Removal Hazardous Material**  
 YES  NO  
 If no, by signing below, I certify that all hazardous material components have been removed from the Property  
 Signature \_\_\_\_\_ Date \_\_\_\_\_

**Final Disposition**  
 1 - Transfer  
 2 - Gift  
 3 - Grant  
 4 - Sale  
 5 - Low Level Waste  
 6 - Donation  
 7 - Scrap

ORIGINAL

## **APPENDIX 3**

### **Building 449A Reconnaissance Level Characterization Report**



# **Rocky Flats Environmental Technology Site**

## **RECONNAISSANCE LEVEL CHARACTERIZATION REPORT (RLCR)**

### **444 CLUSTER CLOSURE PROJECT**

**Buildings 427, 449, 449A, 449C, S449, 453, 454 & 457 Pad**

**REVISION 0**

**September 23, 2002**

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

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## APPENDIX 4

### Building 449A Follow-up Investigation Sampling for Beryllium



## Department of Energy

ROCKY FLATS FIELD OFFICE  
10808 HIGHWAY 93, UNIT A  
GOLDEN, COLORADO 80403-8200

FEB 05 2003

03-DOE-00102

Mr. Steven H. Gunderson  
Rocky Flats Cleanup Agreement Project Coordinator  
Colorado Department of Public Health and Environment  
4300 Cherry Creek Drive South  
Denver, Colorado 80246-1530

Dear Mr. Gunderson:

This letter documents the results of the follow-up investigation to find beryllium in samples taken in Building 449A and the post-decontamination beryllium samples taken in Building 453. This information is provided in response to the James Hindman request.

Eleven additional beryllium samples were collected on the overhead structures inside Building 449A, all samples results were less than the Pre-Demolition Survey Plan (PDSP) unrestricted release criteria ( $0.2 \text{ ug}/100\text{cm}^2$ ) as well as less than the PDSP investigation criteria ( $0.1 \text{ ug}/100\text{cm}^2$ ). Refer to the enclosed Building 449A sample results table and sample map for the results of the additional samples.

Elevated beryllium was identified in the Reconnaissance Level Characterization Report (RLCR) inside Building 453 on the rollup door and the west wall. These areas were decontaminated and post-decontamination samples were obtained, the sample results showed 5 of 20 locations with activity between  $0.1 - 0.2 \text{ ug}/100\text{cm}^2$ , but no activity above  $0.2 \text{ ug}/100\text{cm}^2$ . The area was again decontaminated and post-decontamination samples were obtained, the sample results showed 2 of 15 locations with activity between  $0.1 - 0.2 \text{ ug}/100\text{cm}^2$ , and one sample above  $0.2 \text{ ug}/100\text{cm}^2$  ( $0.25 \text{ ug}/100\text{cm}^2$ ). The area was decontaminated a third time and post-decontamination samples were obtained, all 15 sample results were less than  $0.1 \text{ ug}/100\text{cm}^2$ .

The decon methods used in Building 453 are described below:

### First Decon

The first decon method involved the following:

- Mopping and wet wiping the floor.
- Wet wiping north rollup door lip.
- Decon personnel worked under an approved Beryllium Work Form and craft work package.
- Appropriate Personal Protective Equipment (PPE) and air monitoring was performed during the decon work.

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**Second Decon**

The second decon method involved the following:

- Vacuuming loose debris from floor.
- Wet wiped contaminated areas with mariko and kimwipes. These areas were wiped 2-3 times.
- Wet mopped the remaining floor area within the building with a new mop.
- Wet wiped the north rollup door lip.
- Decon personnel worked under an approved Beryllium Work Form and craft work package
- Appropriate PPE and air monitoring was performed during the decon work

**Third Decon**

The third decon method involved the following:

- Wet wiped floor with mariko and kimwipes. The floor was wiped 3 times.
- Vacuumed and wet wiped overhead surfaces with mariko and kimwipes. These surfaces were wiped 2 times.
- Decon personnel worked under an approved Beryllium Work Form and craft work package.
- Appropriate PPE and air monitoring was performed during the decon work.

Based on the third post-decon smear results, Building 453 is now below PDSP unrestricted release criteria for beryllium, as well as all other contaminants of concern as documented in the Building 453 RLCR. Refer to the enclosed Building 453 sample results table and sample maps for the post-decontamination beryllium sample results. Since Buildings 449A and 453 meet all PDSP Data Quality Objectives and unrestricted release criteria for all contaminants of concern, these buildings are ready for demolition or sale.

Sincerely,



Richard J. DiSalvo  
Acting Assistant Manager  
for Environment and Stewardship

Enclosure

cc w/o Encl:

S. Tower, AMP, RFFO  
C. Freiboth, K-H RISS  
D. Parsons, K-H RISS  
S. Nesta, K-H RISS  
T. Rehder, USEPA

cc w/Encl:

Administrative Record

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### Additional B449A and B453 Beryllium Data Summary Results

Sample Number	Map Survey Point Location	Sample Location	Result (ug/100 cm <sup>2</sup> )
<b>Building 449A</b>			
449A-01082003-603-001	001	B449A Main Room Attic - On rafter above entrance hatch	<0.1
449A-01082003-603-002	002	B449A Main Room Attic - on electrical box in overhead	<0.1
449A-01082003-603-003	003	B449A Main Room Attic - on angled rafter	<0.1
449A-01082003-603-004	004	B449A Main Room Attic - on horizontal rafter	<0.1
449A-01082003-603-005	005	B449A Main Room Attic - on light cover	<0.1
449A-01082003-603-006	006	B449A Main Room Attic - on light cover	<0.1
449A-01082003-603-007	007	B449A Main Room Attic - on angled rafter	<0.1
449A-01082003-603-008	008	B449A Main Room Attic - on horizontal rafter	<0.1
449A-01082003-603-009	009	B449A Main Room Attic - on light cover	<0.1
449A-01082003-603-010	010	B449A Main Room Attic - on horizontal rafter	<0.1
449A-01082003-603-011	011	B449A Main Room Attic - on electrical box in overhead	<0.1
449A-01082003-603-012	012	Blank	<0.1
449A-01082003-603-013	013	Blank	<0.1
<b>B453 Post-Decontamination #1</b>			
453-11132002-213-299	299	Blank	<0.1
453-11132002-213-300	300	Blank	<0.1
453-11132002-213-301	301	B453 - SW floor	0.11
453-11132002-213-302	302	B453 - SW floor	0.14
453-11132002-213-303	303	B453 - NW floor	0.12
453-11132002-213-304	304	B453 - NW floor	0.14
453-11132002-213-305	305	B453 - NE floor	<0.1
453-11132002-213-306	306	B453 - NE floor	<0.1
453-11132002-213-307	307	B453 - SE floor	<0.1
453-11132002-213-308	308	B453 - SE floor	<0.1
453-11132002-213-309	309	B453 - on SE electrical box (#1 north)	<0.1
453-11132002-213-310	310	B453 - on SE electrical box (#2 middle)	<0.1
453-11132002-213-311	311	B453 - on lip of South garage door	<0.1
453-11132002-213-312	312	B453 - on lip of North garage door	<0.1
453-11132002-213-313	313	B453 - on floor East door	0.12
453-11132002-213-314	314	B453 - fire extinguisher on East wall	<0.1
453-11132002-213-315	315	B453 - on S garage door and ribs	<0.1
453-11132002-213-316	316	B453 - on N garage door and ribs	<0.1
453-11132002-213-317	317	B453 - on SE electrical box	<0.1
453-11132002-213-318	318	B453 - middle N floor	<0.1
453-11132002-213-319	319	B453 - middle S floor	<0.1
453-11132002-213-320	320	B453 - floor area of previous Be contamination	<0.1
<b>B453 Post-Decontamination #2</b>			
453-11212002-213-291	291	B453 - S door on motor/electrical box	<0.1

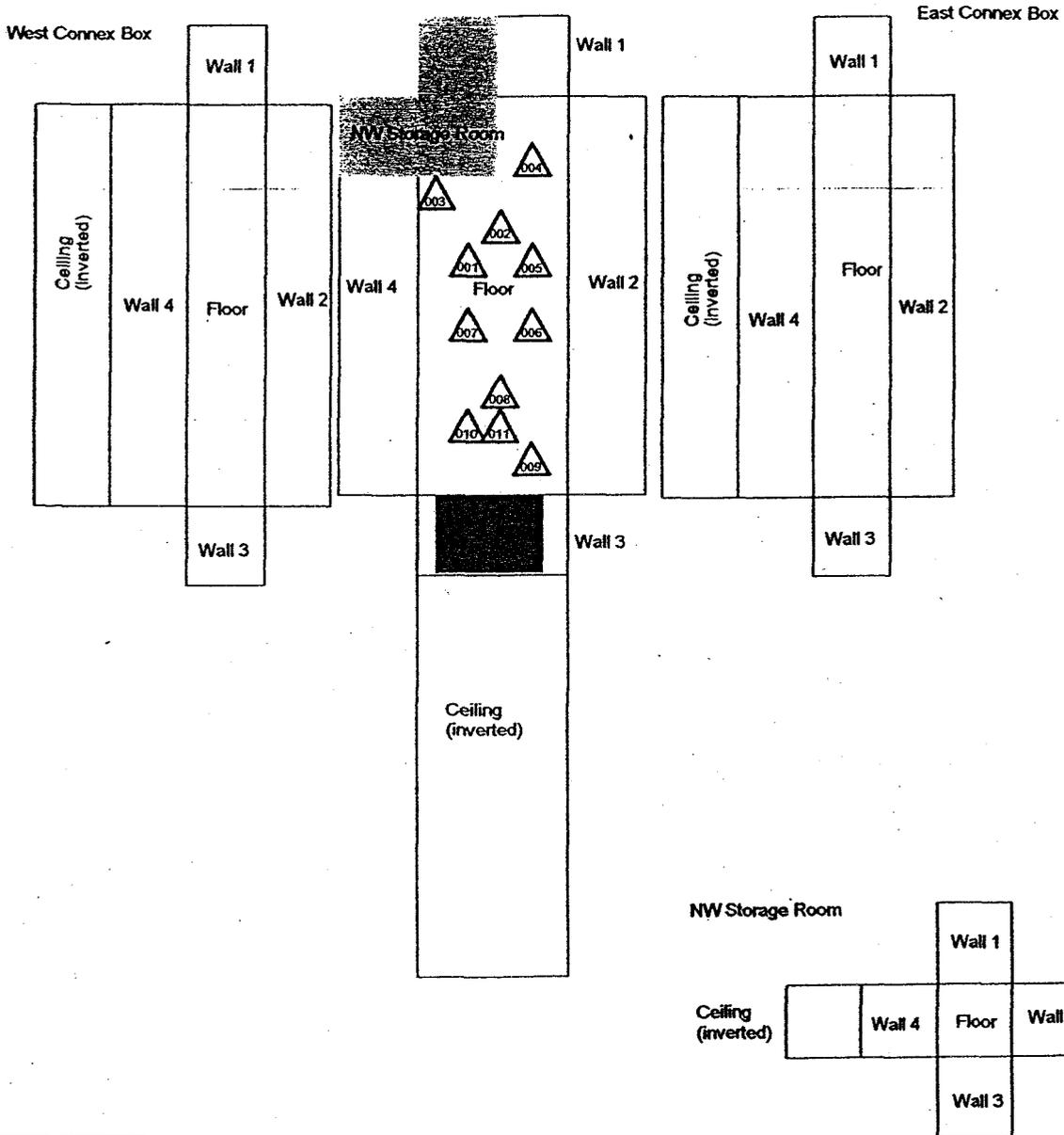
Sample Number	Map Survey Point Location	Sample Location	Result (ug/100 cm <sup>2</sup> )
453-11212002-213-292	292	B453 - S door on motor/electrical box	<0.1
453-11212002-213-293	293	B453 - S door on top of rollup, west side	<0.1
453-11212002-213-294	294	B453 - S door on top of rollup, east side	0.14
453-11212002-213-295	295	B453 - inside of ceiling mounted heater	<0.1
453-11212002-213-296	296	B453 - N door on motor/electrical box	<0.1
453-11212002-213-297	297	B453 - N door on motor/electrical box	0.13
453-11212002-213-298	298	B453 - S door on top of rollup, east side	<0.1
453-11212002-213-299	299	B453 - S door on top of rollup, west side	<0.1
453-11212002-213-300	300	B453 - SW floor	<0.1
453-11212002-213-301	301	B453 - W floor	<0.1
453-11212002-213-302	302	B453 - NW center floor	<0.1
453-11212002-213-303	303	B453 - N door, bottom lip	<0.1
453-11212002-213-304	304	B453 - NE floor, near door way	0.25
453-11212002-213-305	305	B453 - NW floor, corner	<0.1
453-11212002-213-306	306	Blank	<0.1
453-11212002-213-307	307	Blank	<0.1
B453 Post-Decontamination #3			
453-12172002-603-101	101	B453 - NE floor, by door way	<0.1
453-12172002-603-102	102	B453 - NE floor, by door way	<0.1
453-12172002-603-103	103	B453 - NE floor, by door way	<0.1
453-12172002-603-104	104	B453 - NE floor, by door way	<0.1
453-12172002-603-105	105	B453 - NE floor, by door way	<0.1
453-12172002-603-106	106	B453 - NE floor, by door way	<0.1
453-12172002-603-107	107	B453 - N end, on overhead motor/electrical box	<0.1
453-12172002-603-108	108	B453 - N end, on overhead motor/electrical box	<0.1
453-12172002-603-109	109	B453 - N floor, underneath decon motor	<0.1
453-12172002-603-110	110	B453 - N floor, underneath decon motor	<0.1
453-12172002-603-111	111	B453 - SW rollup door, top	<0.1
453-12172002-603-112	112	B453 - SW rollup door, top	<0.1
453-12172002-603-113	113	B453 - SW rollup door, top	<0.1
453-12172002-603-114	114	B453 - SW rollup door, top	<0.1
453-12172002-603-115	115	B453 - SW rollup door, top	<0.1
453-12172002-603-116	116	B453 - SW rollup door, top	<0.1

# ADDITIONAL OVERHEAD BERYLLIUM SAMPLES

Building: 449A Interior

PAGE 1 OF 2

## 449A Interior



**Sample Numbers**  
449A-01082002-603-001 thru 011

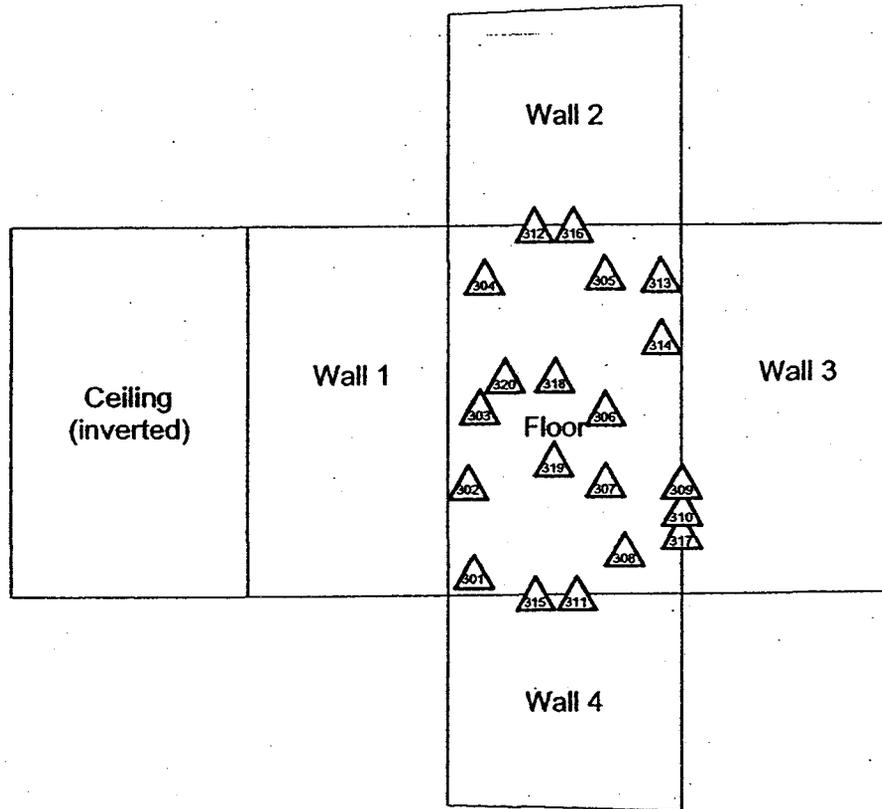
<p><b>SURVEY MAP LEGEND</b></p> <ul style="list-style-type: none"> <li> Asbestos Sample Location</li> <li> Beryllium Sample Location</li> <li> Lead Sample Location</li> <li> RCRA/CERCLA Sample Location</li> <li> PCB Sample Location</li> </ul>	<p>Neither the United States Government nor Kaiser Hill Co., nor DynCorp I&amp;ET, nor any agency thereof, nor any of their employers, 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><b>N</b></p>	<p>0      FEET      25</p> <p>0      METERS      8</p> <p>1 inch = 18 feet    1 grid sq. = 1 sq. m.</p>	<p style="text-align: center;">U.S. Department of Energy Rocky Flats Environmental Technology Site</p> <p>Prepared by: GIS Dept. 303-666-7707      Prepared for:</p> <p style="text-align: center;"><b>DynCorp</b> THE ART OF TECHNOLOGY</p> <div style="text-align: right;"> </div> <p>MAP ID: 02-0222449A-OHBE      January 15, 2003</p>
----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------	---------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

# POST DECONTAMINATION #1

Building: 453 Interior

PAGE 1 OF 1

## B453 Interior



### Sample Numbers

453-11132002-213-299 thru 320  
(Blanks: 299 & 300)

<p><b>SURVEY MAP LEGEND</b></p> <ul style="list-style-type: none"> <li> Asbestos Sample Location</li> <li> Beryllium Sample Location</li> <li> Lead Sample Location</li> <li> RCRA/CERCLA Sample Location</li> <li> PCB Sample Location</li> </ul>	<p>Neither the United States Government nor Kaiser Hill Co., nor DynCorp M&amp;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 style="text-align: center;"><b>N</b></p>	<p style="text-align: center;">0      FEET      15</p> <p style="text-align: center;">0      METERS      5</p> <p style="text-align: center;">1 inch = 12 feet    1 grid sq. = 1 sq. m.</p>	<p style="text-align: center;">U.S. Department of Energy Rocky Flats Environmental Technology Site</p> <p>Prepared by: GIS Dept. 363-966-7707      Prepared for:</p> <p style="text-align: center;"><b>DynCorp</b> THE ART OF TECHNOLOGY</p> <p style="text-align: center;">MAP ID: 02-0222/453-PSDCN1      January 15, 2003</p>
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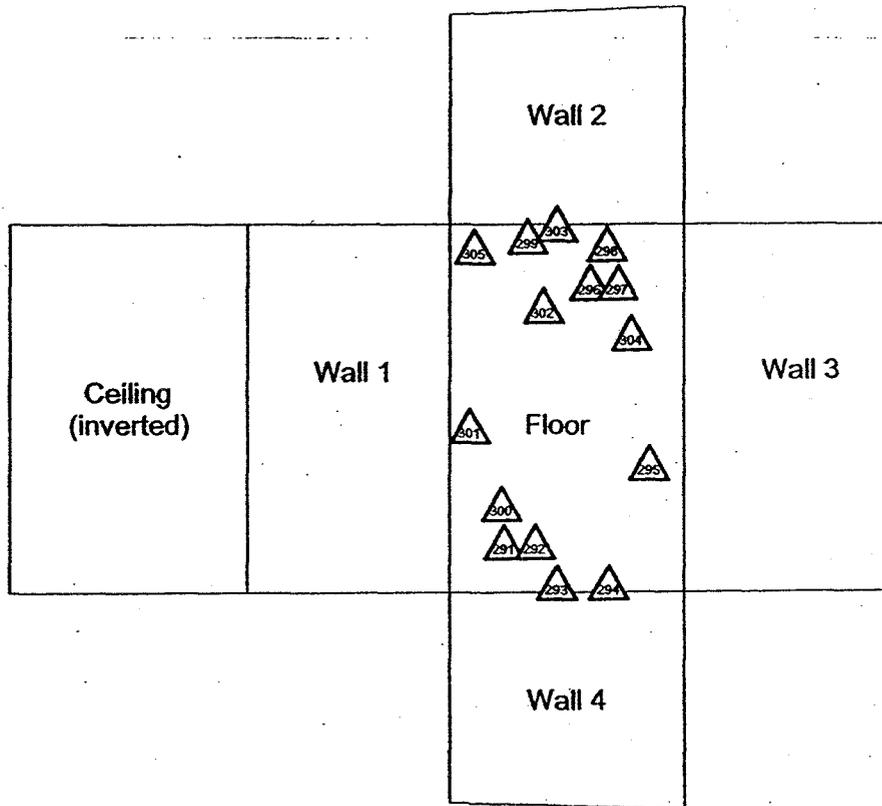
20

# POST DECONTAMINATION #2

Building: 453 Interior

PAGE 1 OF 1

## B453 Interior



**Sample Numbers**  
 453-11212002-213-291 thru 307  
 (Blanks: 306 & 307)

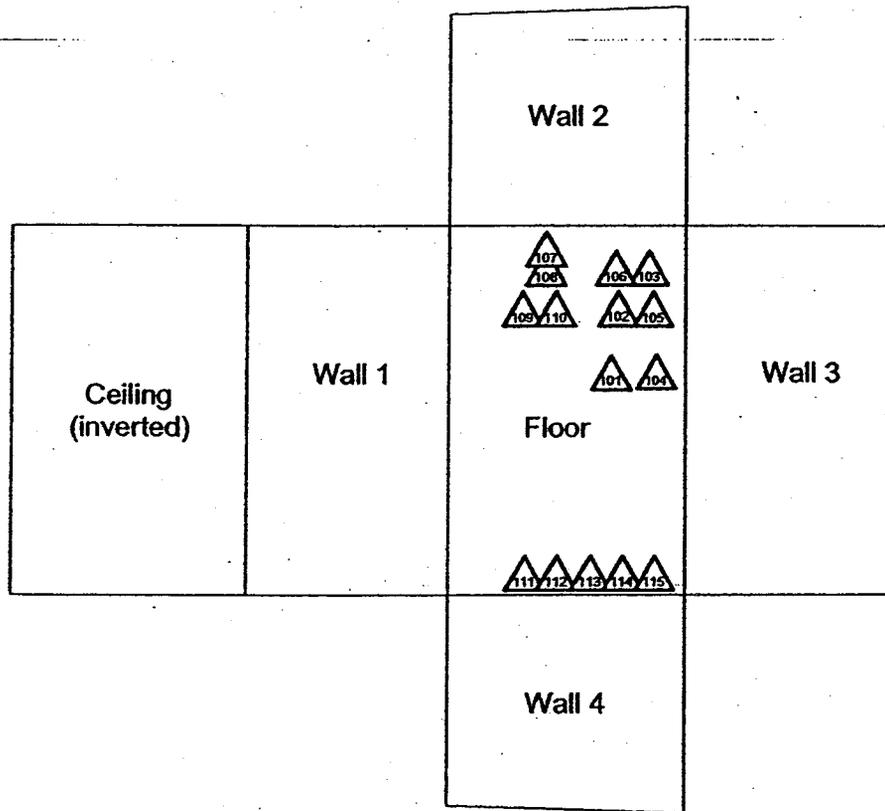
<p><b>SURVEY MAP LEGEND</b></p> <ul style="list-style-type: none"> <li> Asbestos Sample Location</li> <li> Beryllium Sample Location</li> <li> Lead Sample Location</li> <li> RCRA/CERCLA Sample Location</li> <li> PCB Sample Location</li> </ul>	<p>Neither the United States Government nor Kaiser Hill Co. nor DynCorp LAET, 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 style="text-align: center;"><b>N</b></p>	<p style="text-align: center;">0      FEET      15</p> <p style="text-align: center;">0      METERS      5</p> <p style="text-align: center;">1 inch = 12 feet    1 grid sq. = 1 sq. m.</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> <p style="text-align: center;"><b>DynCorp</b>                  THE ART OF TECHNOLOGY</p> <div style="float: right; border: 1px solid black; padding: 2px;"> </div> <p style="text-align: center;">MAP ID: 02-0222453-PSDCN2      January 15, 2003</p>
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# POST DECONTAMINATION #3

Building: 453 Interior

PAGE 1 OF 1

## B453 Interior



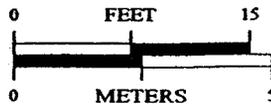
### Sample Numbers

453-12172002-603-101 thru 115

#### SURVEY MAP LEGEND

- Asbestos Sample Location
- Beryllium Sample Location
- Lead Sample Location
- RCRA/CERCLA Sample Location
- PCB Sample Location

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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:

**DynCorp**

THE ART OF TECHNOLOGY



MAP ID: 02-0222/453-PSDCN3

January 15, 2003



## APPENDIX 5

### Regulatory Contact Records and Demolition Approval Notice

24

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

---

**Date/Time:** 01/09/03 – 1350

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-057)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

---

**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110799-35 – D&D the Following B444 Outbuildings: B427, B427AA, B449, and B449A (with the exception of west conex), S449 and Paint Shack East of Outbuildings

---

**Meeting Attendance**

C. J. Freiboth, KH PM                  James Hindman, CDPHE

**Discussion**

On November 20, 2002, at 1500, a copy of Work Package T0110799-35 – D&D the Following B444 Outbuildings: B427, B427AA, B449, and B449A (with the exception of west conex), S449 and Paint Shack East of Outbuildings, was provided to the State (Hindman).

On December 26, 2002, at 1510, the State (Hindman) agreed that since the RLCR has been approved for most of these buildings, State concurrence is not required on those buildings that are designated as Type I. Building 453, the contaminated Conex, and Building 449A will need to be addressed separately. The only item in T0110799-35 that will require their concurrence is the Paint Shack East of the Outbuildings.

On January 09, 2003, at 1350, the State (Hindman) concurred with the D&D of the wooden paint shed described in T0110799-35.

**Contact Record Prepared By: C. J. Freiboth**

---

**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

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

---

**Date/Time:** 12/26/02 – 1440

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-046)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-3345

**Agency:** CDPHE

---

**Purpose of Contact:** State (CDPHE) concurrence on Work Package T0110799-65 – Disconnect Mechanical Utilities to the Following B444 Outbuildings: B427, B427A, B449, and B449A (with the exception of west conex)

---

**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On November 6, 2002, at 1440, a copy of Work Package T0110799-65 – Disconnect Mechanical Utilities to the Following B444 Outbuildings: B427, B427A, B449, and B449A (with the exception of west conex), was provided to the State (Hindman).

On December 26, 2002, at 1440, during a meeting the State (Hindman) the work described in T0110799-65 was discussed. Upon completion of the discussion, concurrence to perform work in accordance with Work Package T0110799-65 was provided by the State (Hindman).

**Contact Record Prepared By: C. J. Freiboth**

---

**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
S. Tower, DOE

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

---

**Date/Time:** 08/08/02 – 1455

**Site Contact(s):** C. J. Freiboth (KH) – (CJF-026)  
**Phone:** (303) 966-2823

**Regulatory Contact:** James Hindman, CDPHE  
**Phone:** (303) 692-6728

**Agency:** CDPHE

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**Purpose of Contact:** State (CDPHE) notification of performance of electrical and telecommunication disconnects for Buildings 449 / 449A

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**Meeting Attendance**

C. J. Freiboth, KH PM          James Hindman, CDPHE

**Discussion**

On August 8, 2002, at 1455, the State (Hindman) was informed that electrical and telecommunications disconnects would occur in Buildings 449 / 449A. The State (Hindman) requested that they would like to see the work package for mechanical disconnects for these facilities.

**Contact Record Prepared By:** C. J. Freiboth

---

**Required Distribution:**

P. Arnold, K-H  
C. Deck, K-H  
R. DiSalvo, RFFO  
C. Gilbreath, K-H  
S. Gunderson, CDPHE  
T. Hopkins, K-H  
L. Kilpatrick, K-H  
J. Legare, RFFO

R. Leitner, K-H  
J. Mead, K-H  
S. Nesta, K-H  
K. North, K-H  
W. Prymak, DOE  
T. Rehder, USEPA  
D. Shelton, K-H

**Additional Distribution:**

C. J. Freiboth, K-H  
J. Hindman, CDPHE  
D. Kruczek, CDPHE  
S. Tower, DOE

# STATE OF COLORADO

Bill Owens, Governor  
Jane E. Norton, Executive Director

*Dedicated to protecting and improving the health and environment of the people of Colorado*

4300 Cherry Creek Dr. S.  
Denver, Colorado 80246-1530  
Phone (303) 692-2000  
TDD Line (303) 691-7700  
Located in Glendale, Colorado

Laboratory and Radiation Services Division  
8100 Lowry Blvd.  
Denver, Colorado 80230-6928  
(303) 692-3090

<http://www.cdphe.state.co.us>



Colorado Department  
of Public Health  
and Environment

## DEMOLITION APPROVAL NOTICE

This approval notice is granted subject to Colorado Air Quality Control Commission Regulation No. 8, Part B, adopted September 19, 1996 and effective November 30, 1996, and the Air Quality Control Act C.R.S. 1982 & 1995 (25-7-101 and 25-7-501 *et seq.*). This notice signifies that the structure was inspected for asbestos and CFCs and the demolition contractor has properly notified the Colorado Department of Public Health pursuant to Regulation No. 8, Part B. **THE ORIGINAL APPROVAL NOTICE MUST BE POSTED ON SITE AT ALL TIMES.**

As a contractor, you may have to obtain other demolition licenses and permits, depending on the requirements of the county and municipality in which the work is being performed. The Colorado Department of Public Health, Air Pollution Control Division strongly suggests that you check with county and municipal authorities in order to determine any other local building/permitting requirements that must be met.

This approval notice is valid from **02/03/2003** through **05/02/2003**  
The actual scheduled work dates are from **02/03/2003** through **05/02/2003**

This approval notice has been issued to:

**RFCSS LLC/ T. P. Enterprises**  
**10808 Hwy 93, T334B**  
**Golden, CO 80403**

For the location specified below:

**Bldg. 449A**  
**10808 Hwy 93, Unit B**  
**Golden, CO 80403**  
**Jefferson County**

Asbestos Building Inspector: David Lee Babbs  
Inspection Date: 04/08/2002

Approval Issued on: 01/27/2003  
Record Number: 37236  
Notice Number: 03JE1085D  
Amount Paid: \$ 55  
Check Number: 01195

Issued by: \_\_\_\_\_

*Immediately notify the Asbestos Unit of project modifications by fax at 303-782-0278 and the appropriate county health department by fax. Project modifications include changes in the scope of work or the scheduled work dates.*

### III. Verification That Action Goals Were Met

Five action objectives were established for the Building 449A Removal Project prior to beginning the demolition, during demolition, and after demolition:

- *Decontamination of the facility (as necessary) to support release for decommissioning per site approved procedures.*

The facility was decontaminated to free-release standards and placed in the off-site landfill or declared excess material and sent to PU&D for unrestricted property released.

- *Decommissioning the facility in accordance with RFCA and applicable or relevant and appropriate requirements.*

RFCA and other relevant requirements were complied throughout the project. Documents including RFETS RLCR, RSOP for Facility Disposition, Regulatory Contact Records, Demolition Approval Notice, and follow-up investigation sampling results were obtained or provided to CDPHE for review and concurrence, as appropriate. See Appendix 5 for Regulatory Contact Records and Demolition Approval Notice. See Appendix 4 for Follow-up Investigation Sampling for Beryllium.

- *Complete decontamination and decommissioning activities in a manner that is protective of site workers, the public and the environment.*

Decontamination and decommissioning activities were completed within regulatory requirements. Site specific requirements including work-site and task specific training, personal protective equipment, job site safety and health inspections, heavy equipment hazards, as well as other project specific demolition requirements, were evaluated and oversight provided.

- *Demolish 449A facility structures and utilities.*

Demolition consisted of equipment removal, building structures, utilities and some decontamination. There were no underground utilities.

- *Environmental Restoration for characterization as well as sampling and analysis of native soils under the former building asphalt pad and reclamation of the site.*

Removal of the asphalt pad will be done during future D&D activities within the 444 Cluster. Areas occupied by Building 449A will be included in Environmental Restoration's characterization of IHSS Group 400-3 (Building 444/447 cluster). Remediation activities, if required, will be conducted according to the Environmental Restoration RFCA Standard Operating Protocol (ER RSOP) for Soil Remediation.