

FACILITY STATUS CHANGE FORM

Date Submitted: Feb 9, 2011 Originator: David Warren Phone: 539-6040	Area: 100-N Area Facility ID: 1701-N (MO-992) Action Memorandum: 100-N Ancillary Facilities	Control #: D4-100-N-0005 rev. 1
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This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

- All D4 operations required by action memo complete.
- D4 operations required by action memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:

This Facility Status Change Form (FSCF) presents previously submitted information, and additional information as necessary, that documents completion of D4 activities at Hanford Facility 1701-N Limited Access Area Badge House (MO-992). The previously submitted information, "D4 Project Soils and/or Below Grade Structures Completion Form, 1701-N Limited Access Area Badge House (MO-992)" (Document Number D4-100N-0005) does not conform to a current project requirement that specifies "each completed form must be signed by the DOE-Richland Operations Office (RL) and lead regulator project manager." This FSCF contains those required signatures.

Description of Deferral (as applicable):

None

Section 2: Underlying Soil Status

- No waste site(s) present. No additional actions anticipated.
- Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
- Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned.
Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

See attachment 1: D4 Project Soils and/or Below Grade Structures Completion Form, 1701-N Limited Access Area Badge House (MO-992)

Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):

See attachment 1: D4 Project Soils and/or Below Grade Structures Completion Form, 1701-N Limited Access Area Badge House (MO-992)

Section 3: List of Attachments

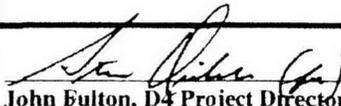
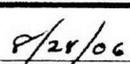
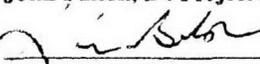
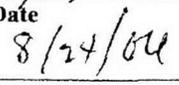
Attachment 1: D4 Project Soils and/or Below Grade Structures Completion Form, 1701-N Limited Access Area Badge House (MO-992)

Rudy Guercia		2/16/11
DOE-RL		Date
Rick Bond		3/1/11
Lead Regulator	<input type="checkbox"/> EPA <input checked="" type="checkbox"/> Ecology	Date

100-N D4 Project Facility Completion Form

Attachment 1

D4 Project Soils and/or Below Grade Structures Completion Form 1701N Limited Access Area Badge House (MO-992)

Date Submitted: 8/16/06 Originator: J. W. Golden Phone: 521-0877	Associated Building/ Facility: MO-992 Associated Action Memorandum: Action Memorandum 100N Ancillary Facilities	Document Number: <u>D4-100N-0005</u>
<p>This form, documents that the soil and/ or below grade structures meet the requirements of the Associated Action Memorandum.</p>		
<p><u>Basis for Determination (attach pertinent documentation):</u></p> <p>The D4 activities for 1701N Limited Access Area Badge House (MO-992) have been completed in accordance with the requirements of the action memorandum.</p> <p>There are no indications of releases of hazardous materials from the facility; this determination was based on documented project knowledge of the facility operation and data collected during the demolition of the facility. The basis for this determination is supported as follows:</p> <ul style="list-style-type: none"> • The area was not a previously posted as a radiological area nor was the area previously identified within WIDS. • Post demolition radiological surveys following demolition did not result in the area being managed as a radiological area. • There were no documented spills of hazardous/ mixed waste. The only suspect hazardous material of concern during demolition was asbestos and ozone depleting substances (ODS), both of which were removed prior to demolition without incident. • Process history. <p>Detailed information pertaining to waste profiles, radiological survey data and sampling data are contained within the attached demolition summary report (CCN#128264).</p>		
 _____ John Fulton, D4 Project Director		 _____ Date
 _____ Jim Golden, D4 Environmental Project Lead		 _____ Date

**WCH D4 FACILITY CHARACTERIZATION
HISTORICAL SITE ASSESSMENT FOR THE 1701-N LIMITED ACCESS AREA
BADGE HOUSE (MO-992)**

March 2006

1.0 FACILITY IDENTIFICATION AND TYPE

Name: 100-N Limited Access Area Badge House

The 1701-N mobile office is located to the north of 1103-N (MO-415), and immediately north east of 1110-N (MO-100).

Building Types (I, II, or III): This building is Type III.

Type III facilities are managed as free of contamination from site operations and processes. This trailer has continuously provided daily personnel access to the 100N Limited Access Area without restriction for a number of years. No specific activities or processes have been carried out in this trailer since it was used as a badging house for security. Therefore, there is no known potential for releases to the environment during deactivation, decontamination, decommissioning, and demolition (D4) activities from radiological materials or hazardous substances.

2.0 GENERAL PHYSICAL DESCRIPTION

The 1701-N 100N Limited Access Area Badge House is a mobile trailer, 12 feet wide by 60 feet long. The trailer contains three sections separated by interior walls, each wall with a doorway. Six exterior doors are present. Windows are present on the north and south walls.

This trailer makes up a section of the boundary along the fence to control access into the 100N Limited Access Area. An electrically operated gate is directly adjacent to the trailer, along the fence to the north to control vehicular access.

3.0 HISTORICAL OPERATIONS (LEAKS, SPILLS, ETC.)

This trailer was used by Hanford Patrol to control access to the 100-N Limited Access Area. There are no identified processes or other pathways that could have resulted in leaks or spills in or around this trailer.

4.0 CURRENT OPERATIONAL STATUS

The 1701-N facility is no longer in use as a badge house. Currently, it is used as minor storage for fall protection equipment and poster board letters.

5.0 EXPECTED CONTAMINANTS OF CONCERN AND WASTE FORMS

5.1. Radiological Contaminants:

Historical knowledge indicates no known source of radiological contamination in this trailer; however, contamination from biological transport is common throughout the 100N area. Radiological engineering will make the determination during the demolition of the facility as to whether or not the facility can be released from radiological controls. Post demolition surveys will be conducted to determine whether or not contamination through biological vectors transport is present in the soil.

5.2. Hazardous Material Contaminants:

5.2.1. Asbestos:

An asbestos inspection was conducted on March 15, 2006. Several samples were taken, however at the time this document was written the report had not yet been released. Previous asbestos sampling results indicated that asbestos was not present (ERC 1995).

5.2.2. Beryllium:

This structure is not on the Hanford Site Beryllium List (<http://www.hanford.gov/safety/beryllium/suspect3.htm>). There is no known pathway or source for beryllium contamination in this building, based on process knowledge and available documentation.

5.2.3. Lead:

Lead is not known to be part of the construction of this type of mobile trailer, and no available historical records or other information indicates presence of lead compounds or objects.

5.2.4 Mercury:

No historical records or other information indicates the presence of mercury or mercury containing devices or equipment in this mobile trailer.

5.2.5 Polychlorinated biphenyls (PCBs):

Neither walkdowns, historical records, nor other information indicates the presence of PCBs or PCB-containing devices or equipment in this mobile trailer.

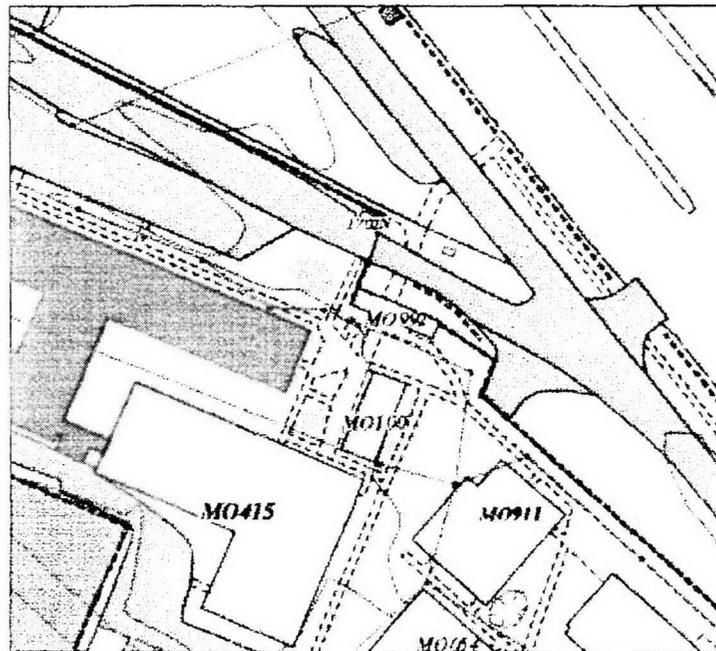
5.2.6 Refrigerants:

ir conditioning unit is present in this trailer. This air conditioner is active and is expected to contain refrigerant material. The refrigerant will be removed prior to the demolition of the facility.

6.0 ENVIRONMENTAL RESTORATION CONCERNS

There are no WIDS sites in relative proximity to 1701-N (MO-992).

WIDS Sites (map shows no WIDS sites present)



7.0 OTHER

This building serves as part of the boundary along the security fence that restricts access to the 100-N Limited Access Area.

8.0 REFERENCES

ERC 1995, IOM – *Analysis of Bulk Samples For Fiber Content of Asbestos*, (CCN 021115), Environmental Restoration Contractor, Richland, Washington.

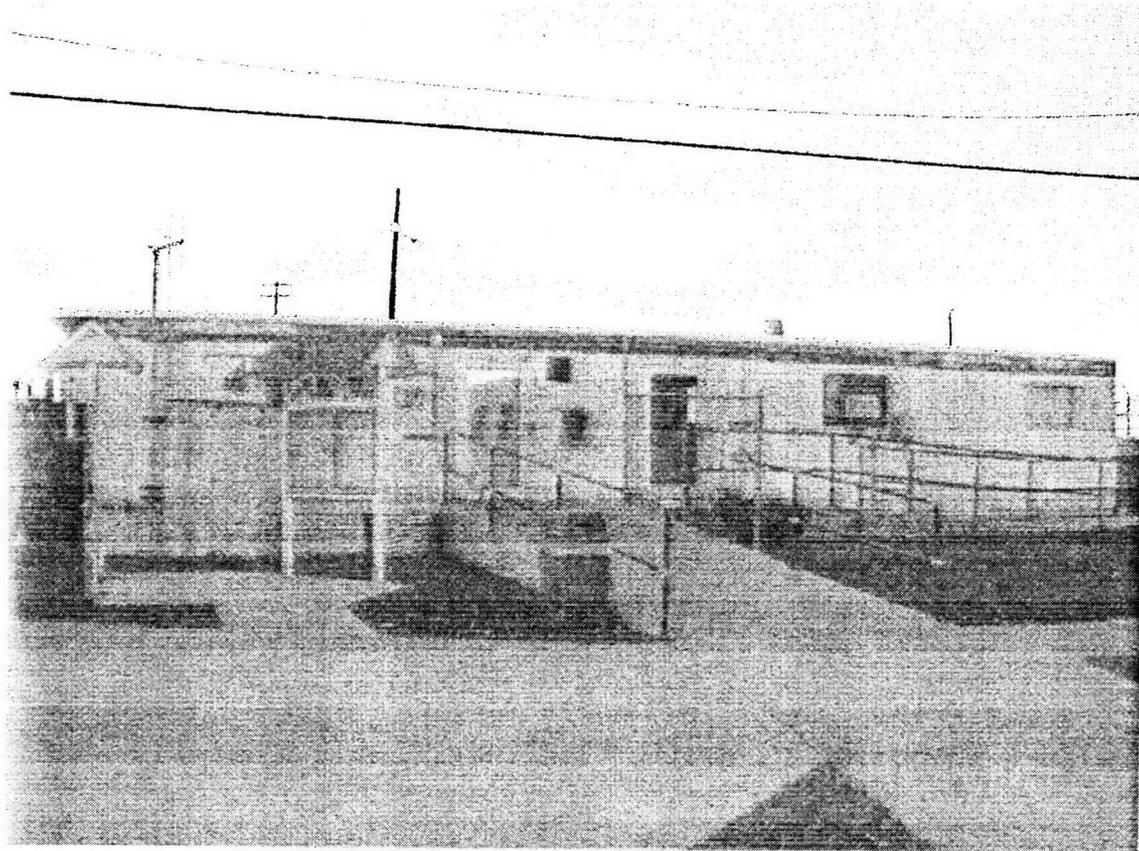
Drawings:

H-1-41424, Sh 1, *Electrical Plans & Details*

H-6-3167, Sh 1, *Electrical Gate House & Property Fence Conduit & Grounding Plan*

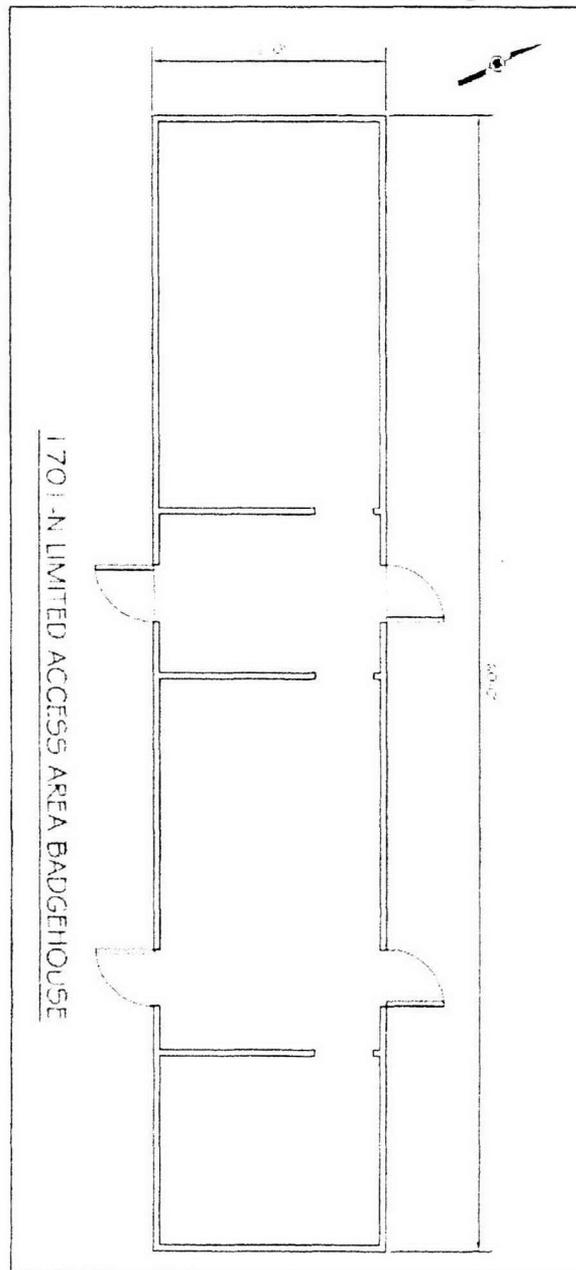
9.0 BUILDING IMAGE

Figure 9.1 – 1701N 100-N Limited Access Area Badge House



10.0 FLOOR PLANS

Figure 10.1 - 1701-N Limited Access Area Badge House Floor Plan



Post Demolition Summary Report for the 1701N Limited Access Area Badge House (MO-992)

August 2006

Site Information

This post demolition summary report covers the 1701N Limited Access Area Badge House located at 100N, also referred to as MO-992.

The 1701N Limited Access Area Badge House was a mobile trailer, 12 feet wide by 60 feet long. The trailer contained three sections separated by interior walls.

A Historical Site Assessment was developed for this facility (WCH, 2006).

Demolition activities occurred at 1701N during June and July 2006.

Radiological and Industrial Hygiene Surveys

A radiological scoping survey was performed in spring of 2006 (RSR-100SMT-06-0142). The radiological survey done for post demolition down posting the Radiological Buffer Area (RBA) and Surface Contamination Area (SCA) to an SCA is documented in RSR-IFSM1-06-0098. The GPERS survey was used to down post the area from an SCA.

An IH baseline survey was performed at 1701-N, no hazards were identified during the survey. See WCH 2006c for more information.

Waste and other Characterization Samples

Asbestos samples were taken of several suspect materials in 1701N. Green floor tiles were the only material that was identified as asbestos containing (WCH 2006b).

Waste Profiles

Waste profile 100N007 was used to disposition generated waste for disposal at ERDF.

Post Demolition Radiological Survey

GPERS surveys were completed after building demolition and load out. The initial GPERS survey showed two spots above background levels. These spots were re-surveyed to verify they were anomalous readings and not actual contamination. The verification surveys showed the areas to be clean with no radiological contamination. The initial GPERS surveys are included as Figures 3 and 4, the re-survey is shown in Figure 5.

Civil Survey Information (GPS)

GPS civil surveys were performed at 1701N prior to demolition to document the building location, and after demolition to document the location and dimensions of the excavation. Copies of these surveys are provided at the end of this report.

Status of WIDS Sites Associated with Building Site

There are no WIDS sites near the 1701N site.

Anomalies Discovered During Demolition

There were no anomalies discovered during the demolition of the 1701N Limited Access Area Badge House.

Hazmat Removal

Hazardous material and asbestos removal were completed at the 1701N prior to demolition. The hazmat package number is 2005 09 20 002 AB. Hazardous materials removed consisted of asbestos and?

Cost Performance Information

Actual charges against 1701N, as of July 2006, are \$47,900.

Lessons Learned

This building presented a challenge in that accessibility for construction equipment was somewhat restricted by adjacent structures, such as power poles, overhead power lines, nearby trailers, and chain-linked fences. Smaller equipment was used during demolition for improved maneuverability and to minimize road impedance. The area was posted during demolitions to ensure that personnel maintained a safe working distance when equipment was active. With these safety precautions work was completed safely with zero accidents or injuries.

Final Building Status

The 1701N building and adjacent concrete sidewalks were demolished and removed. Because of the minimal excavation re-grading or back filling was not necessary.

Documentation

Documents referenced in this summary are available through the Document Control organization. Additionally, photographs of this facility prior to, during, and following demolition activities are maintained in the working files of the D4 Characterization group. Included are photographs to document the as-left conditions of the soils.

Additional Information

The work package used for demolition was 2005 09 20 005 Z.

References

ERC 1995, IOM – *Analysis of Bulk Samples for Fiber Content of Asbestos*, (CCN 021115), Environmental Restoration Contractor, Richland, Washington.

WCH, 2006a, *Historical Site Assessment for 1701-N / 100-N Area*, IOM 126896, March 22, 2006, Washington Closure Hanford, Richland, Washington.

WCH, 2006b, *Asbestos Inspection & Sampling Report for the 1701N (MO-992) Building*

WCH, 2006c, *IH Baseline for Building 100N/1701-N (MO-992)*, (CCN 127560),
Washington Closure Hanford, Richland, Washington.

Radiological Surveys:

RSR-100SMT-06-0142 (scoping survey)

RSR-IFSM1-06-0098 (down posting survey)

Figure 1 – 1701N Limited Access Area Badge House (Pre-Demo)

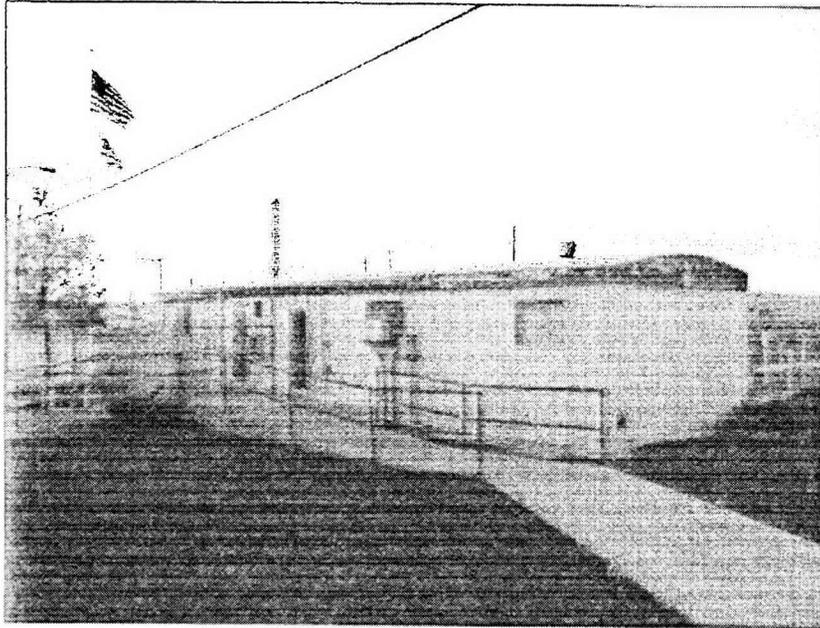


Figure 2 – 1701N Limited Access Area Badge House (Post Demo)



Figure 3 – GPERs Initial Beta Survey (showing anomalous points)

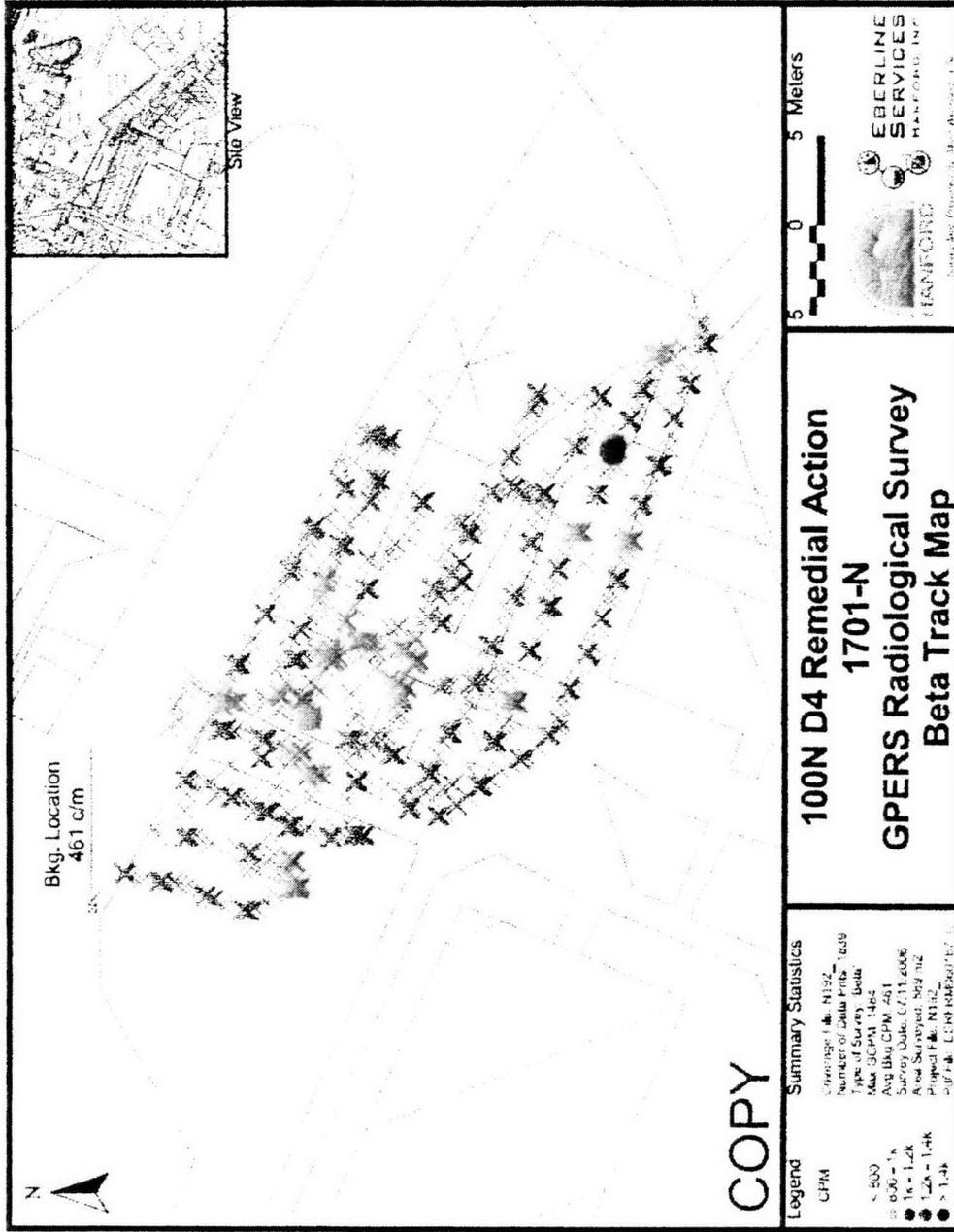
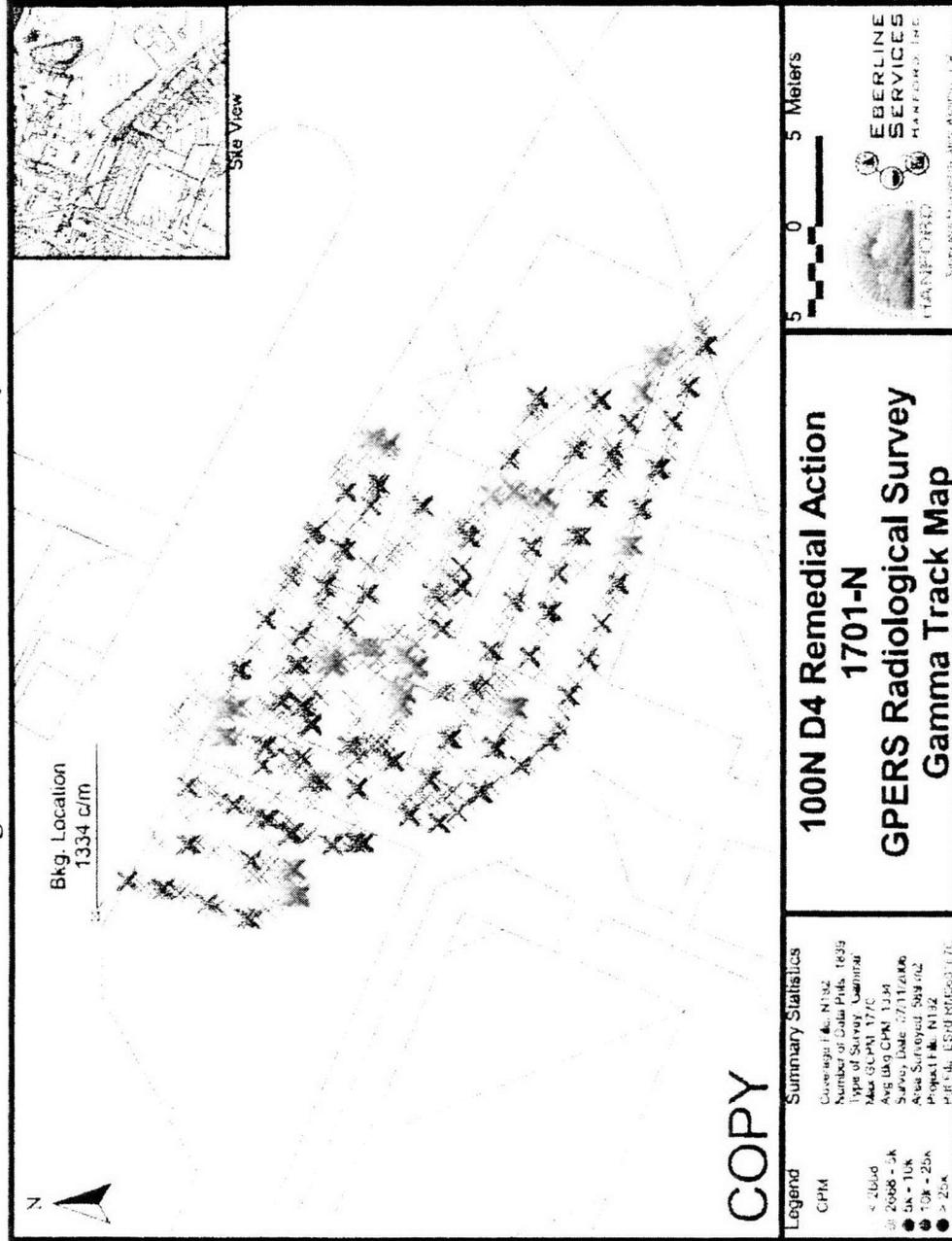


Figure 4 – GPERs Gamma Survey



**100N D4 Remedial Action
1701-N
GPERs Radiological Survey
Gamma Track Map**

Legend	
GPM	Summary Statistics
○ < 25cpd	Coverage File: N132
● 26cpd - 5k	Number of Data Pnts: 1839
● 5k - 10k	Type of Survey: Gamma
● 10k - 25k	Max GCPM: 1770
● > 25k	Avg D4g GPM: 1334
	Survey Date: 07/11/2006
	Area Surveyed: 599 m2
	Project File: N132
	Project: 100N D4g Remedial Action

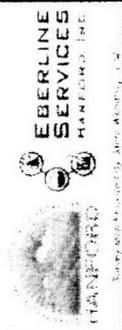
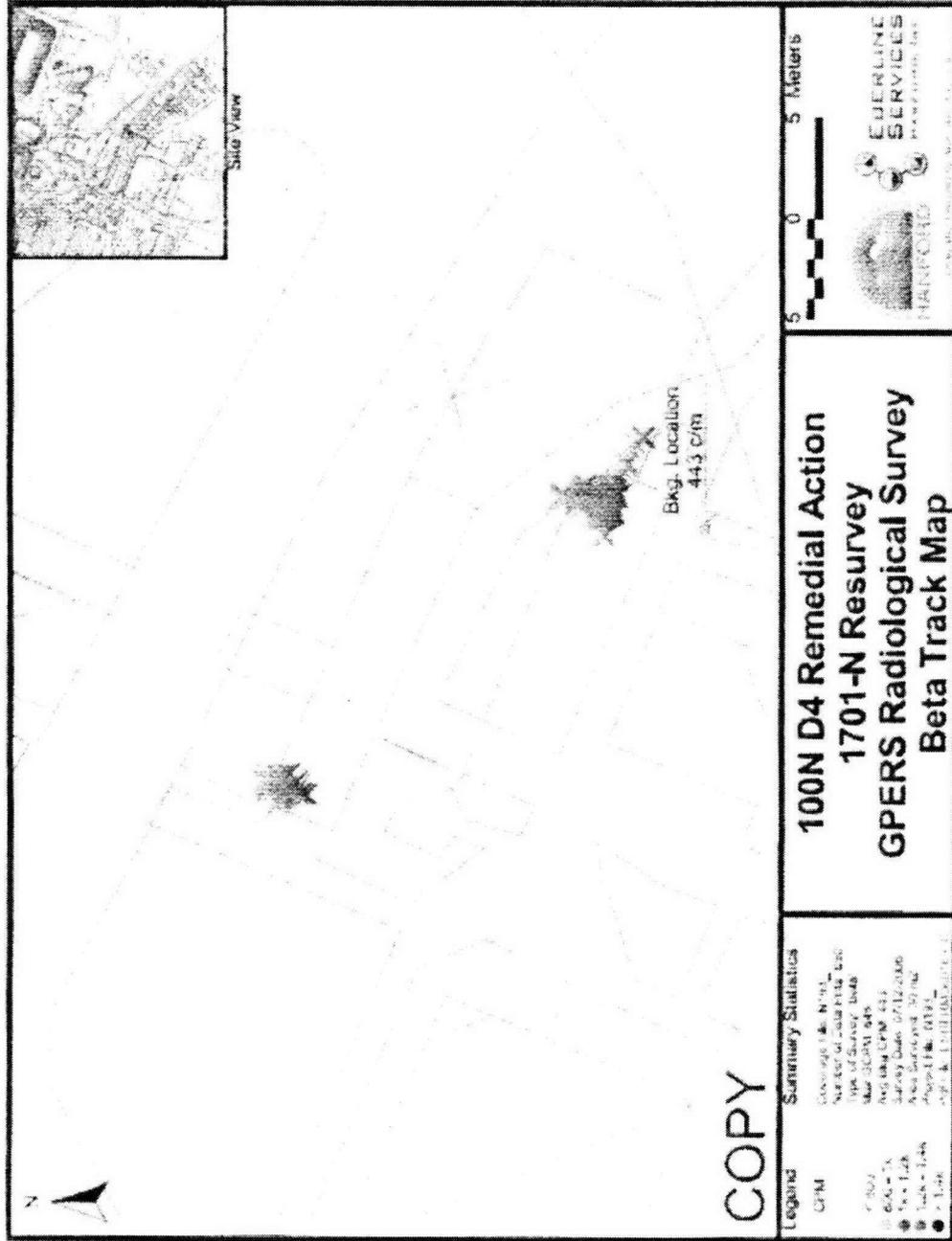
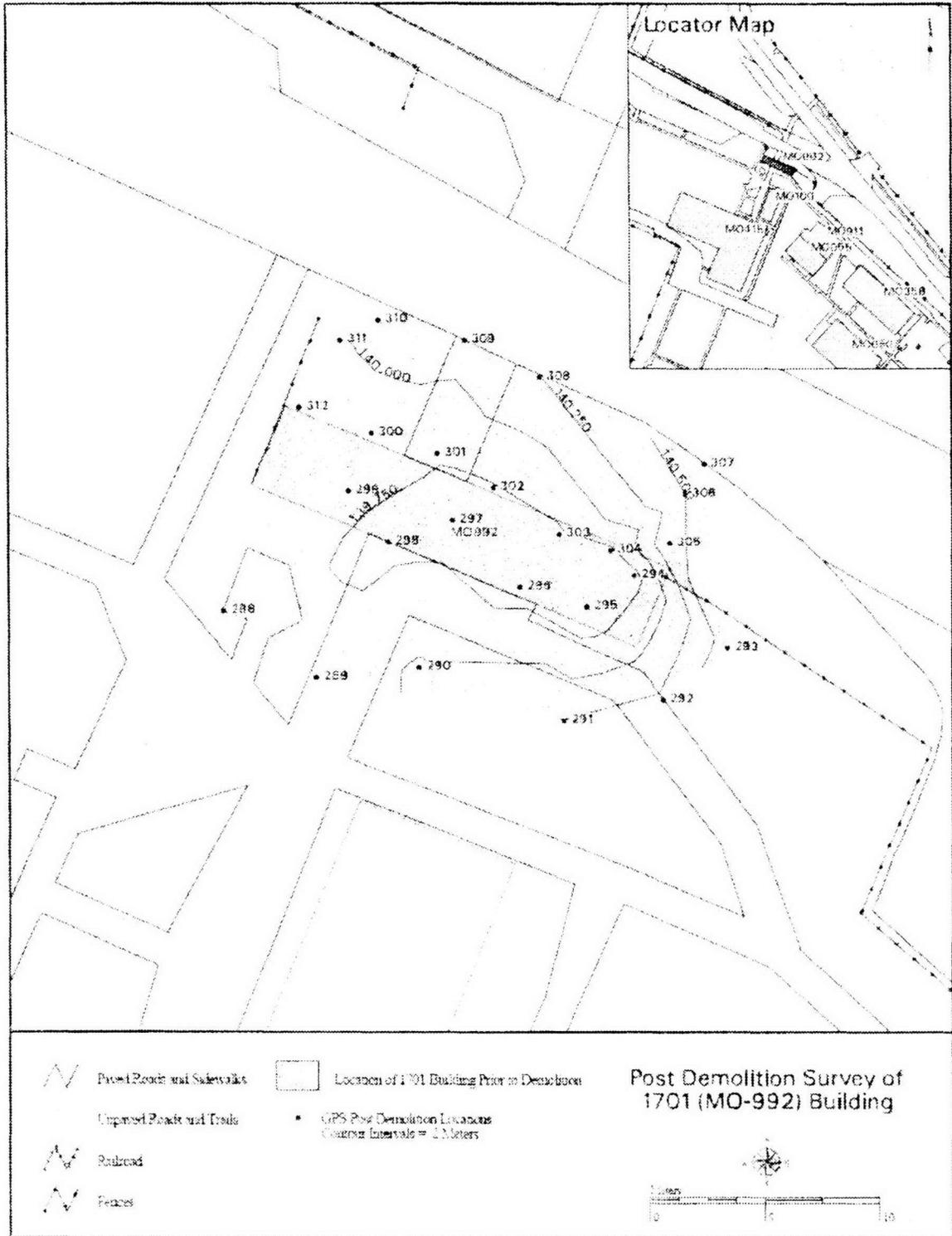


Figure 5 – GPERs Beta Re-Survey (confirming spots clean)



Attachment 1 – Civil Survey



Attachment 2 - Civil Survey Data

User name	maaye	Date & Time	3:11:27 PM 8/1/2006
Coordinate System	US State Plane 1983	Zone	Washington South 4602
Project Datum	NAD 1983 (Conus)		
Vertical Datum	NAD83	Geoid Model	GEOID99 (Conus)
Coordinate Units	Meters		
Distance Units	Meters		
Height Units	Meters		

Survey Project Name/Title:	1701N- (MO992) Excavation
Survey Purpose:	Survey the post demolition of 1701N
Requested By:	Amy Hood
General Site Location:	100N
Charge Code:	
Field Surveyor:	Margo Aye
Computer Software Used:	Trimble Survey Controller, and Geomatics Office V.11
Survey Equipment Used:	5800
Control Monuments Used:	100N-4
Survey Method:	RTK
	Estimated Horizontal Precision: .020m
	Estimated Vertical Precision: .050m
Fieldwork Start Date:	7/24/06
Fieldwork Completion Date:	7/24/06
Notes:	

Name	Feature Code	Northing	Easting	Elevation	Description
288	excav-bndry-top	149351.270	571464.065	139.867	
289	excav-bndry-top	149348.367	571467.995	139.867	
290	excav-bndry-top	149348.809	571472.396	140.027	
291	excav-bndry-top	149346.489	571478.598	140.257	
292	excav-bndry-top	149347.409	571482.914	140.295	
293	excav-bndry-top	149349.676	571485.754	140.631	
294	excav-bndry-toe	149352.814	571481.672	139.662	
295	excav-bndry-toe	149351.458	571479.644	139.558	
296	excav-bndry-toe	149352.302	571476.770	139.651	
297	excav-bndry-toe	149355.210	571473.824	139.635	
298	excav-bndry-toe	149354.256	571471.047	139.684	
299	excav-bndry-toe	149356.481	571469.374	139.801	
300	excav-bndry-toe	149359.003	571470.360	139.870	
301	excav-bndry-toe	149358.117	571473.173	139.775	

302	excav-bndry-toe	149356.630	571475.621	139.733
303	excav-bndry-toe	149354.599	571478.436	139.711
303	excav-bndry-toe	149353.886	571480.687	139.709
305	excav-bndry-top	149354.206	571483.229	140.436
306	excav-bndry-top	149356.339	571483.960	140.499
307	excav-bndry-top	149357.653	571484.733	140.628
308	excav-bndry-top	149361.403	571477.630	140.241
309	excav-bndry-top	149363.027	571474.392	140.119
310	excav-bndry-top	149363.892	571470.657	140.104
311	excav-bndry-top	149363.036	571469.091	139.983
312	excav-bndry-top	149360.130	571467.284	139.848

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