Control #: D4-300-018

FACILITY STATUS CHANGE FORM

Date Submitted:	Area:	Control #:
May 4, 2011	300	D4-300-018
Originator:	**Facility ID:**	
John Harrie	3715 Spare Parts Warehouse	
Phone:	**Action Memorandum:**	
509.308.9935	#1 for the 300 Area	

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:

Deactivation: Utility isolations were performed on the facility prior to beginning facility decontamination.

Decontamination and Decommissioning: The following hazardous materials were removed prior to facility demolition: oils, asbestos containing material, grease, mercury, and miscellaneous construction materials. Hazardous material removal and waste disposition was performed in accordance with *Removal Action Work Plan #1 for the 300 Area*, DOE/RL-2004-77, Rev. 0 (RAWP).

Demolition: Demolition of the above-grade structures were completed on February 16, 2006. The building debris were removed by February 23, 2006 and disposed of at ERDF. Due to the facility histories, the demolition was performed under industrial hygiene and radiological controls. The 3715 building slab and foundation were removed by FR as part of the 300-6 excavation during the period between August 24 and September 14, 2010.

Description of Deferral (as applicable):

None

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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:

The 3715 building and slab foundation has been removed. The area is posted as URMA (Underground Radioactive Material Area). There are currently no IH or Radiological postings associated with the 3715 building site.

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

See Attachment 1.

Section 3: List of Attachments

1. Facility Information
2. Project photographs
3. GPS Civil Survey
4. GPERS Survey

Acrobat 8.0

FACILITY STATUS CHANGE FORM

DOE-RL	Date 5/9/11
Lead Regulator ☒ EPA ☐ Ecology	Date May 9, 2011

DISTRIBUTION:

EPA: Larry Gadbois, B1-46
Ecology: Rick Bond, H0-57
DOE: Rudy Guercia, A3-04
Document Control, H0-30
Administrative Record, H6-08

SIS Coordinator: Ben Cowin, H4-22
D4 EPL: Chris Strand, L1-07
Sample Design/Cleanup Verification: Megan Proctor, H4-22
FR Engineering: Jason Olsson, X4-08
FR EPL: Darrin Faulk, L6-06

Attachment 1: Facility Information

Building History:

The 3715 Spare Parts Warehouse was a one-story, steel framed metal building constructed on a (24-feet by 24-feet) concrete slab between 1959 to1961 to store green (unirradiated) fuel. Fuel manufacturing components were stored in the 3715 Building to support the fuel nickel plating process development. Originally referred to as a Manufacturing Operations Warehouse, 3715 was known later to be a Spare Parts Warehouse. A concrete dock with ramp was located on the west side of the building. The 3715 building was demolished and loaded out to ERDF in February of 2006. The slab foundation was removed by FR during the 300-6 excavation in September of 2010.

Building Characterization:

Table 1 summarizes the industrial hygiene, radiological control, and asbestos samples collected in the 3715 Buildings.

Table 2 summarizes the contaminants of concern for facility demolition and the Management Practices implemented to minimize spread of those contaminants.

Table 1: Summary of Characterization Surveys at the 3715 Material Storage Building.

Type	Quantity	Results	Method Detection Limit
Radiological Scoping Surveys	- 63 internal and external surveys	All readings were less than reporting limits	1,000 removable /5,000 total beta-gamma [a] 1,000 removable /5,000 total alpha [a] (Uranium)
Industrial Hygiene Baseline Sampling for Beryllium – Air and Wipe Samples	5 air samples 40 wipe samples	All personal and area air sample results were below the method's limit of detection. Ten wipe samples were measured to have beryllium surface levels greater than the action level of 0.2 µg/100 cm^2	0.01 µg/100 cm^2
Industrial Hygiene Wipe Sampling for Beryllium – In Process and Post Demolition	23	All samples were measured to have beryllium surface levels less than the action level of 0.2 µg/100 cm^2	0.01 µg/100 cm^2
[a] – dpm/100 cm^2			

Table 2: Contaminants of Concern for Facility Demolition

Contaminant of Concern	Management Practice
Radionuclides	Radiological characterization surveys were performed in September and November of 2005. The 3715 concrete ramp was downposted to a fixed contamination area (FCA). A downpost survey of the slab was performed in March of 2006 which did not identify contamination.
Asbestos	Three samples collected and were less than 1%.
Beryllium, lead and cadmium	IH characterization sampling determined Be, Pb and Cd concentrations to be less than action levels.

Identification of Document Waste Sites:

There are two WIDS sites associated with the 3715 building. These sites, and their current status, are listed in Table 3.

Table 3: 3715 WIDS Site Summary

Site No.	Description	Status
300-6	366/366A Fuel Oil Bunkers	Hydrocarbons and low level radioactivity was encountered south and west of 3717. Hydrocarbon impacts may have extended 10 m depth. Removed by FR.
300-123	366 Fuel Oil Loading Station Steam Condensate French Drain	The French Drain structure located south of 3715 had the potential to receive fuel oil in the steam condensate that drained to the drain structure. Removed by FR.

Anomalies Discovered During Demolition:

No anomalies were discovered during the demolition of 3715 Spare Parts Warehouse.

Attachment 2: Project Photographs

Photo 1: 3715 Building prior to Demolition on February 10, 2006

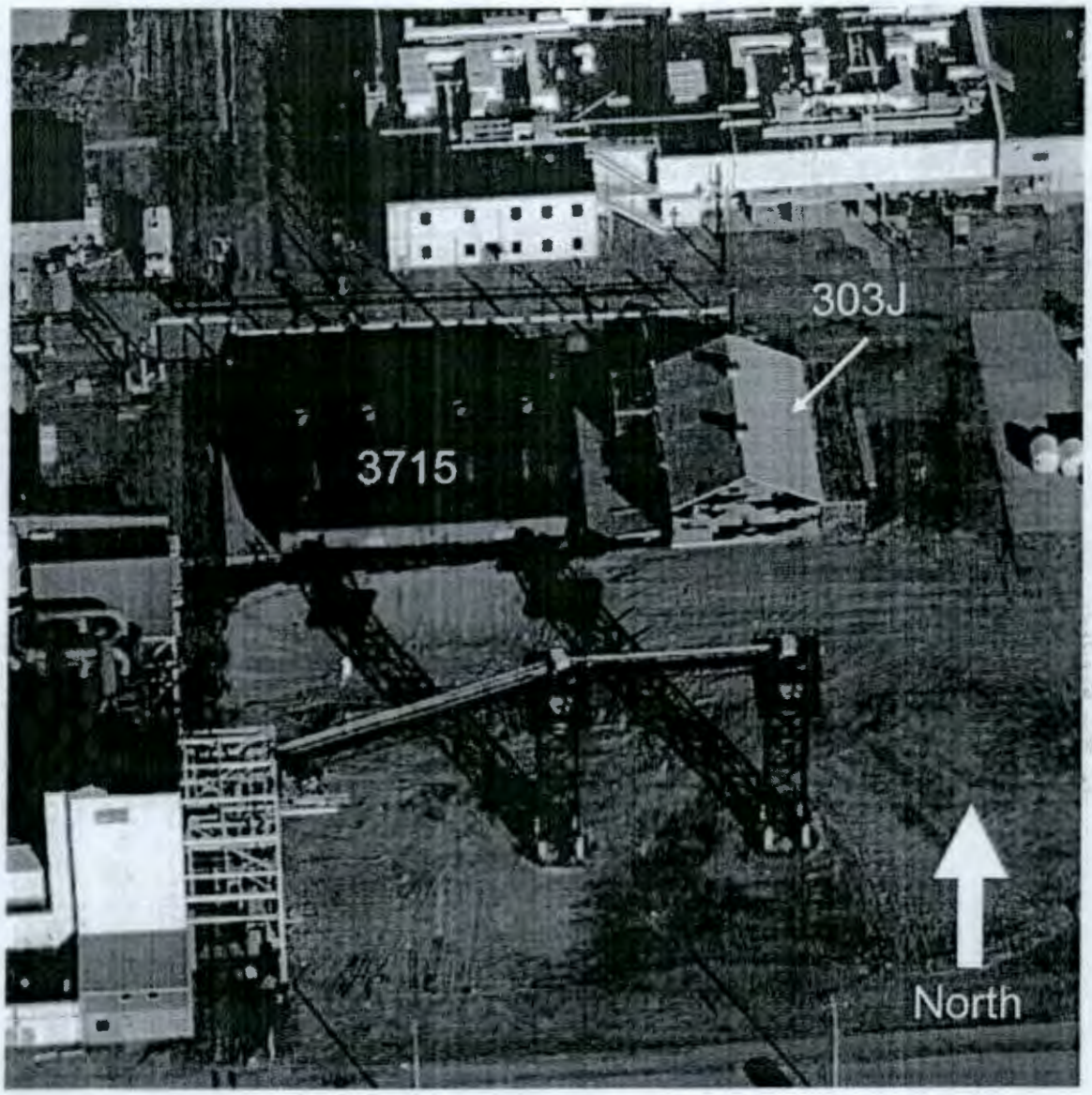


Photo 2: 3715 prior to Demolition on March 11, 1986.

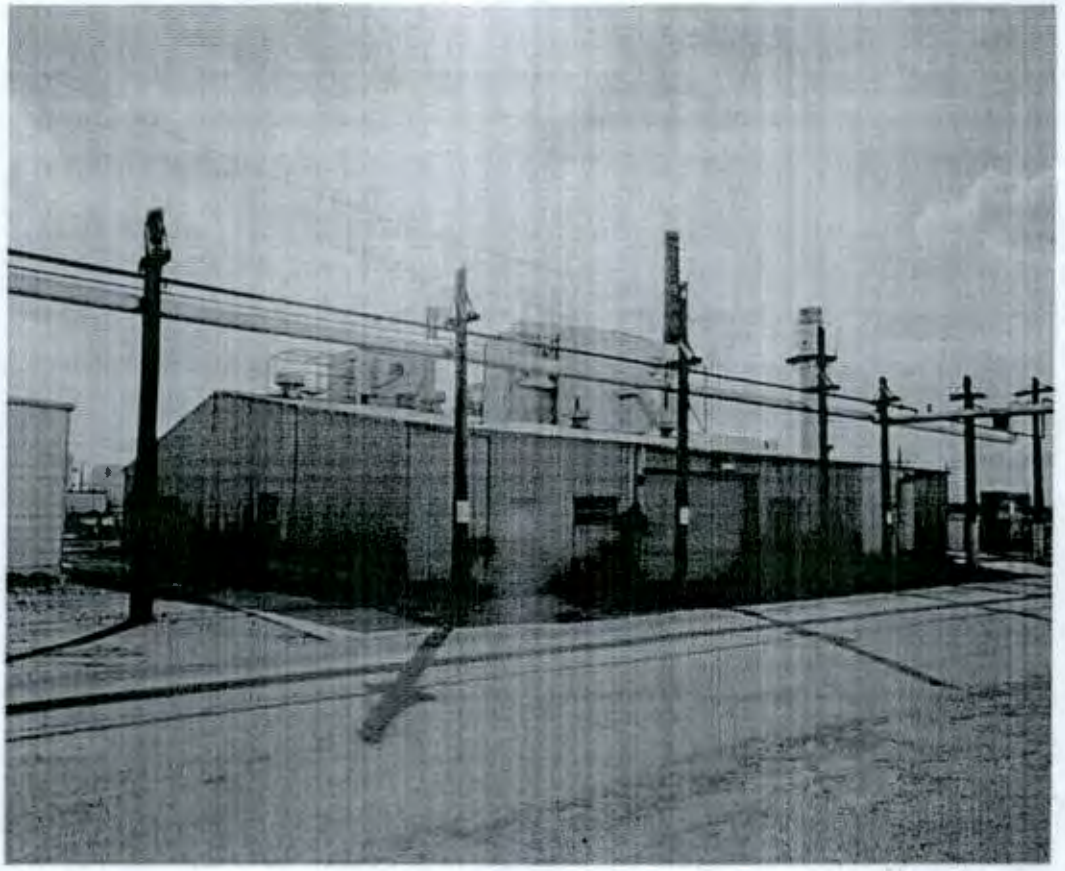


Photo 3: Looking Southwest at 3715 Post-Demolition on December 20, 2008.

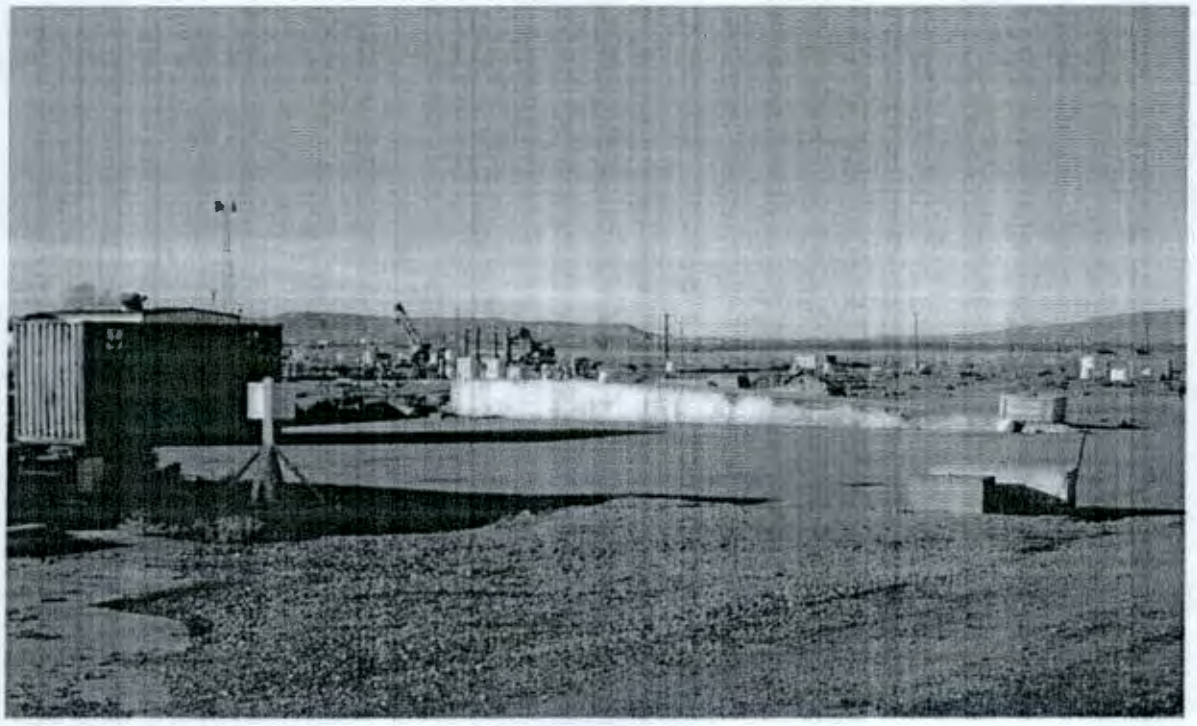


Photo 4: 3715 Post-Demolition on January 19, 2011.

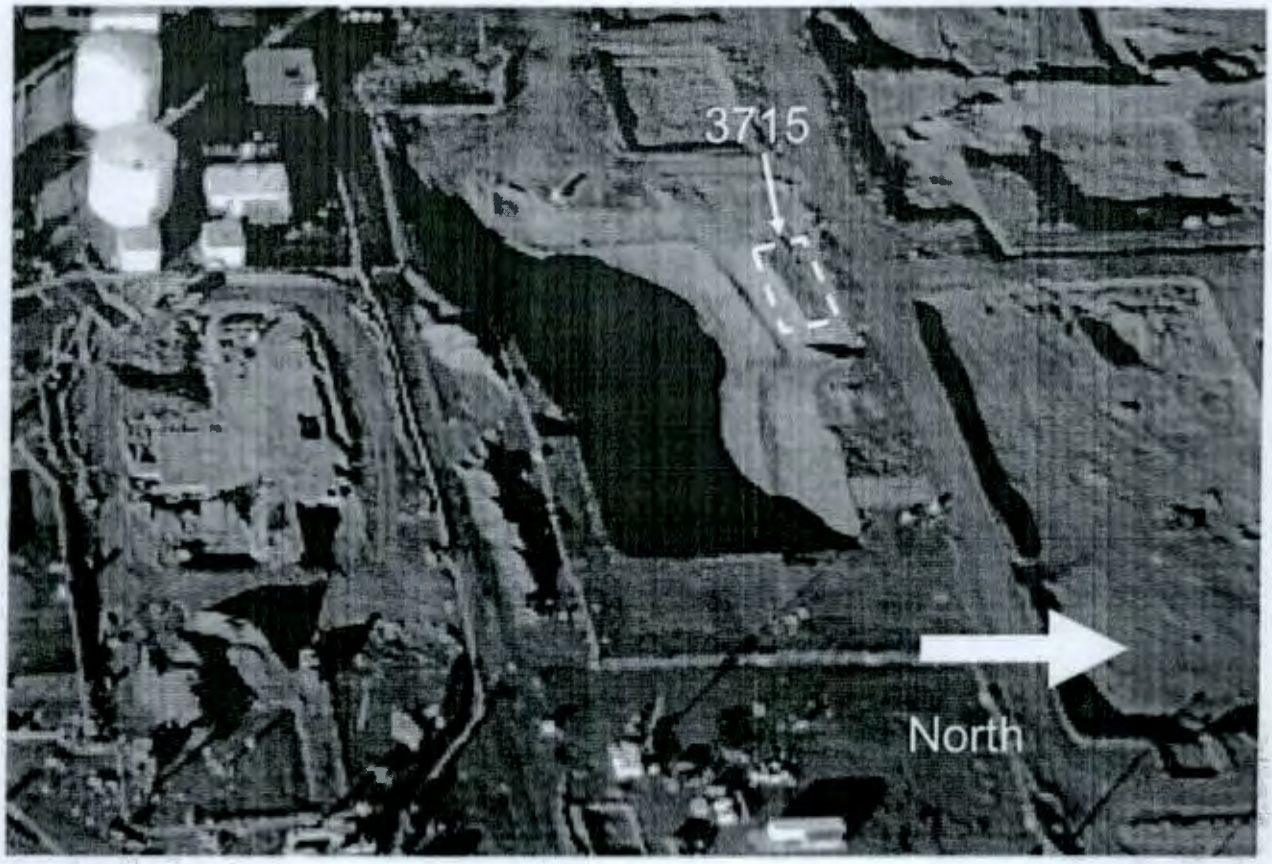
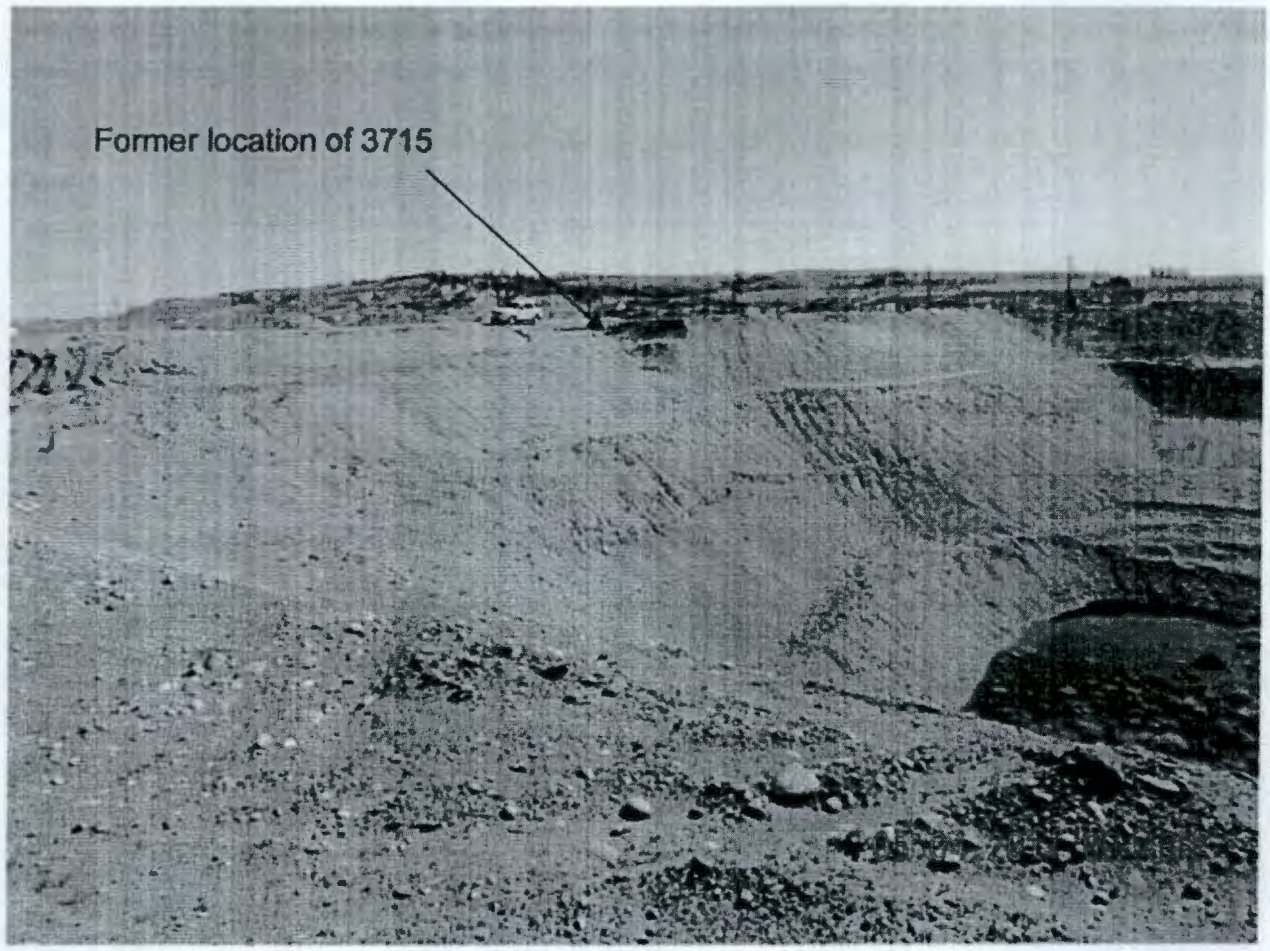
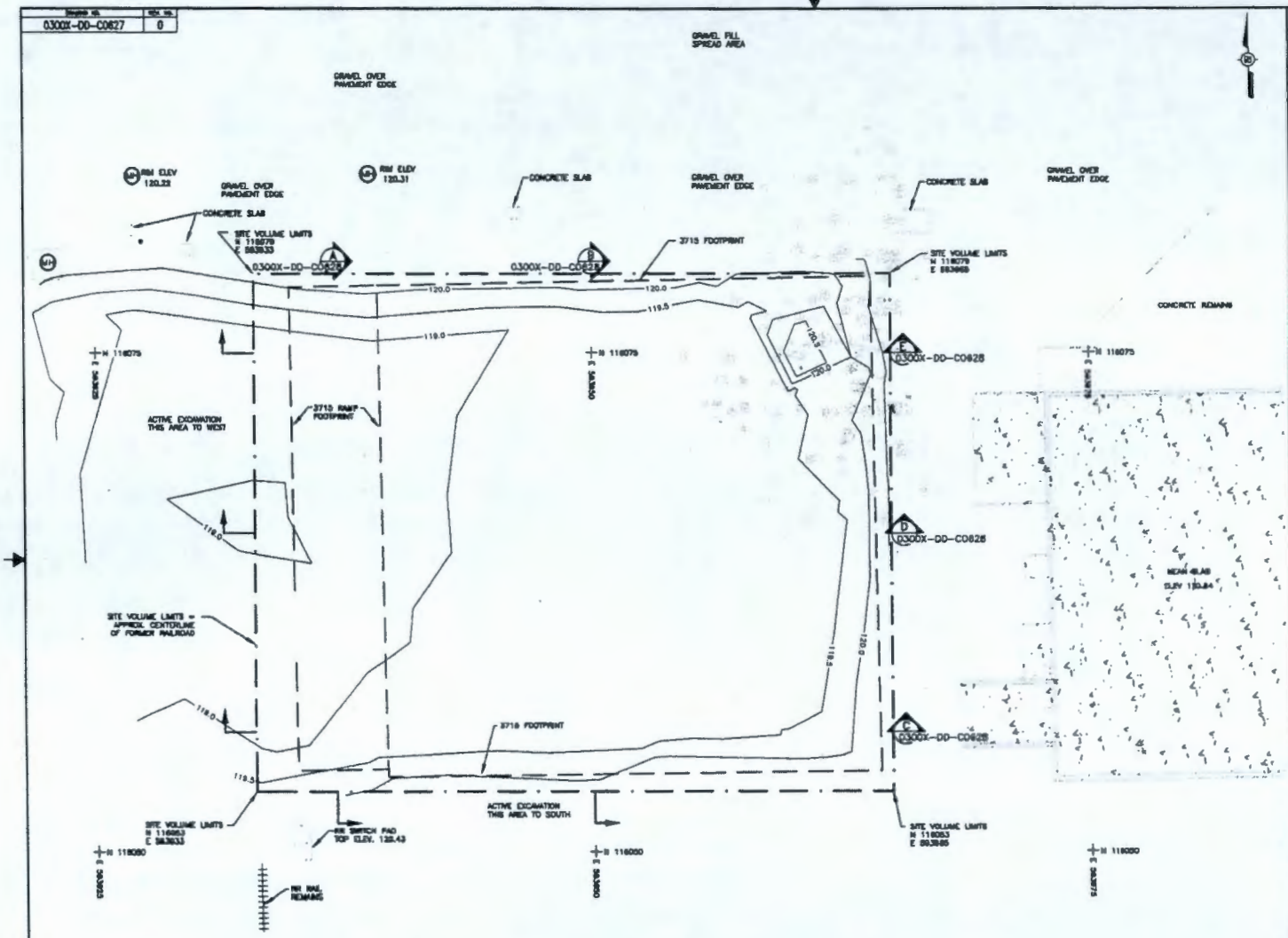


Photo 5: Looking northeast at 3715 Post-Demolition on May 4, 2011



Attachment 3: GPS Civil Survey

Drawing No.	Rev. No.
0300X-DD-C0627	0



NOTES

1. THIS SURVEY WAS PERFORMED ON SEPTEMBER 20, 2010 AT THE REQUEST OF TERRANEARPMC. SITE TOPOGRAPHIC INFORMATION WAS COLLECTED USING LEICA TPS TOTAL STATION THEODOLITE AND RANGER 100 DATA COLLECTOR.
2. COORDINATES ARE RELATIVE TO NAD 83/91, WASHINGTON SOUTH ZONE.
3. ELEVATIONS ARE RELATIVE TO NAVD 88 DATUM ORIGINATING FROM MONUMENT HSWB 008. (ELEVATION=120.468)
4. ALL UNITS ARE IN METERS.
5. SEE NARRATIVE BELOW.
6. SEE DRAWING 0300X-DD-00070 FOR DRAWING INDEX.

SURVEYOR'S NARRATIVE

THE PURPOSE OF THIS SURVEY WAS TO PROVIDE A POST EXCAVATION SURVEY AT THE IMMEDIATE VICINITY OF OF THE 3715 BUILDING, AND COMPUTE A MATERIAL VOLUME USING AN EARLIER SURFACE DATA COLLECTED ON JULY, 20 2010 AS A BASELINE. THERE ARE ACTIVE EXCAVATIONS TO THE WEST AND SOUTH OF THE 3715 BUILDING, SO A VOLUME CALCULATION SITE, SHORT OF THESE ACTIVITIES WAS DETERMINED. THE WEST BOUNDS WERE SET APPROXIMATELY AT THE CENTERLINE OF A RAILROAD NOW REMOVED. THE NORTH, SOUTH AND EAST BOUNDS WERE SET TO EXTEND JUST BEYOND THE ORIGINAL FOOTPRINT OF THE 3715 BUILDING.

LEGEND

MH MANHOLE
BOLLARD

SURVEYOR'S CERTIFICATION

I, JOHN A. BAALMAN, A PROFESSIONAL LAND SURVEYOR IN THE STATE OF WASHINGTON, REG.# 21364, HEREBY CERTIFY THAT THIS MAP CORRECTLY REPRESENTS A SURVEY [illegible] UNDER MY SUPERVISION IN SEPTEMBER 2010 AT THE REQUEST OF TERRANEARPMC.

DATE

SCALE 1:100
1 0 1 2 4 meters

RECORD INFORMATION

RECORD NO.	RUN NO.	MOD NO.
H-3-315539 SHT01	3000	0103

REV.	DATE	DESCRIPTION	DRAWN BY	CHECKED BY	ENGR. APPROVAL	QA APPROVAL	PE STAMP
0		ISSUED AS-BUILT					

ISSUED AS-BUILT

U.S. DEPARTMENT OF ENERGY
DOE RICHLAND OPERATIONS OFFICE
RIVER CORRIDOR CLOSURE CONTRACT

WASHINGTON CLOSURE HANFORD LLC. RICHLAND, WASHINGTON

TERRANEARPMC, LLC RICHLAND, WASHINGTON

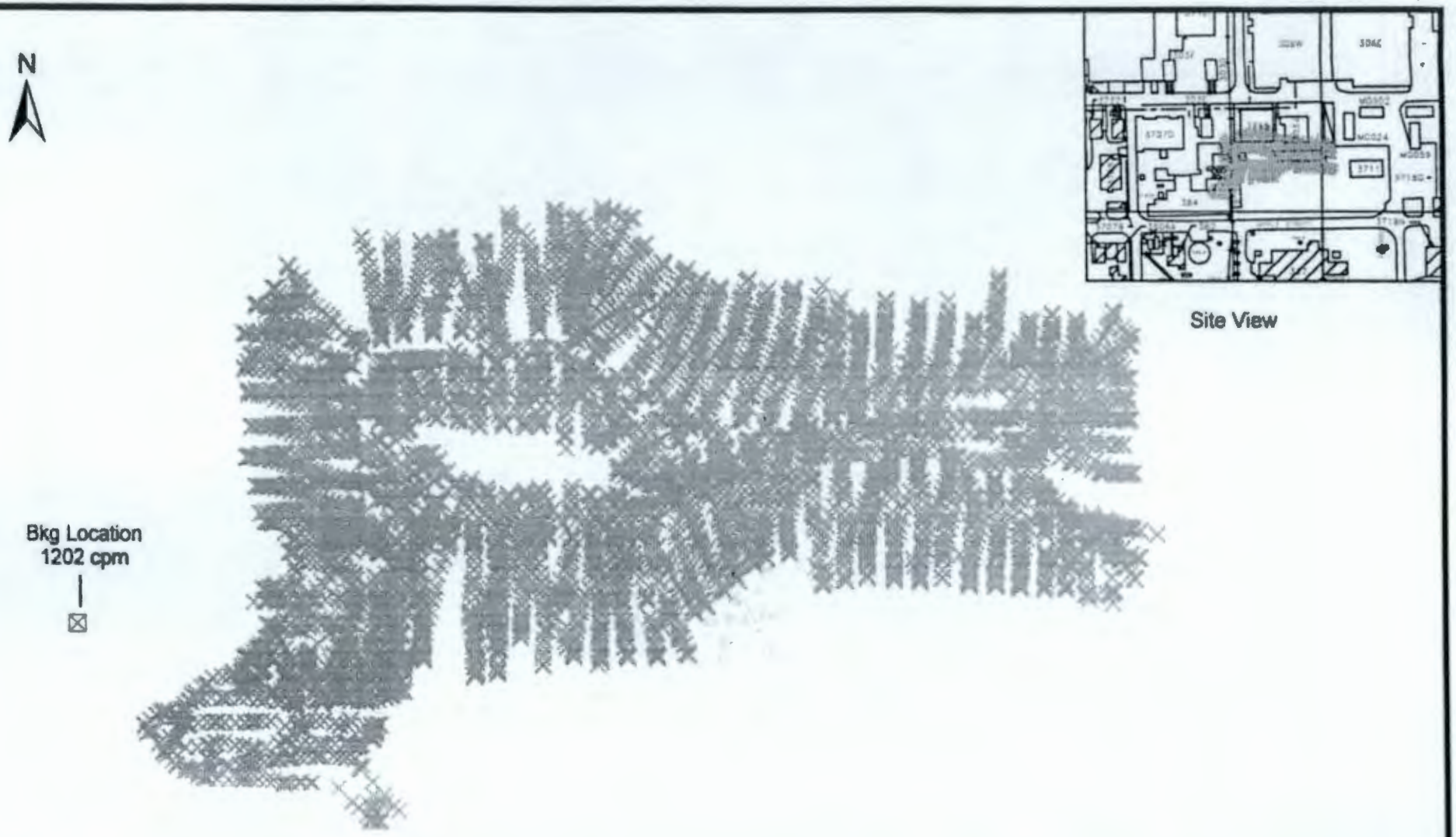
REMAINING 300 AREA WASTE SITES NORTH OF APPLE
3715 BUILDING POST EXCAVATION CIVIL SURVEY

WCH JOB NO.	DOE CONTRACT NO.	CADD FILENAME
14855	DE-AC06-05RL-14855	3XDC0627.DWG

TYPE	DRAWING NO.	REV. NO.
FT-2	0300X-DD-C0627	0

Dedicated To Safety Excellence

Attachment 4: GPERS Survey



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Legend

NET CPM

- < 2404
- 2404 - 5000
- 5000 - 10000
- 10000 - 25000
- > 25000

Summary Statistics

Coverage File: FF362_
Number of Data Pnts: 9646
Type of Survey: 'Gamma'
Max GCPM: 3805
Avg Bkg CPM: 1202
Survey Date: 12/28/2010
Area Surveyed: 3481 m^2
Project File: FF362_
Pdf File: ESRFRM100156C

300FF2 Field Remediation
300-6 Site
GPERS Radiological Survey
Gamma Track Map

0 5 10 15 20 25 Meters

HANFORD

EBERLINE SERVICES
HANFORD, INC.

Survey Map Prepared By Bruce Coomer, ESI