Control #: D4-300-092

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FACILITY STATUS CHANGE FORM

1222304

Date Submitted:	Area:	Control #:
November 6, 2013	300 Area	D4-300-092
Originator:	**Facility ID:**	
Chris Strand	3760, 323BA	
Phone:	**Action Memorandum:**	
554-2720	Action Memorandum #3	

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 completed on both facilities prior to demolition.

Decontamination and Decommissioning: Hazardous materials were removed prior to demolition and included oils, grease, mercury, and asbestos. Asbestos was removed by certified asbestos workers.

Demolition of the 3760 and 323BA above and below-grade structures completed in October of 2013. The debris was removed and disposed of at ERDF.

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:
The excavation was backfilled with clean material following GPERS surveys. No radiological or Industrial Hygiene postings remain.

Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):
300-15; process sewer segments remain in the area.

Section 3: List of Attachments

1. Facility Information (building history and characterization).
2. Project photographs.
3. GPERS surveys.

DOE-RL	Date 11/6/13
N/A Larry Gadbow	Date Nov 19, 2013
Lead Regulator ☒ EPA ☐ Ecology	Date

300.FF-2

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FACILITY STATUS CHANGE FORM

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FR Engineering: Eric Ison, L1-13
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Attachment 1: Facility Information

Building Histories

3760 Technical Library

The 3760 building was a rectangular, partial two-story structure with no basement that was constructed in 1952. The building was constructed of a steel framework, with fluted steel exterior wall panels. The parapeted roof was slightly sloped steel deck topped with a tar and gravel finish. The first floor was reinforced concrete, while the second floor was steel deck topped with concrete.

The first floor contained library stacks, reference rooms, a reading room, administrative offices, restrooms, a classified storage vault, and a duplicating room. The partial second floor contained drafting and design offices, drawing and vendor files, a conference room, equipment room and a lunch room. The second floor could be accessed with stairways both inside and outside the facility, or with an elevator that was near the center of the building. Utilities serving the building included sanitary water and sewer.

The 3760 building was located south of the 321 building at the intersection of Alger Street and Wisconsin Avenue and housed the Hanford Technical Library. By 1984, the records collection had grown to 50,000 volumes, 60,000 bound periodicals, 450,000 unclassified documents, and 50,000 classified documents. In the 1990s, the number of unclassified reports had grown to 800,000.

323 Boiler Annex

The 323 Boiler Annex was a pre-engineered metal building on a concrete slab and contained a single package boiler. The 300 Area boiler annexes were installed between August 1997 and March 1998 to provide steam to various buildings in the 300 Area. They were constructed to replace the steam provided by the 384 Powerhouse as part of the Energy Savings Performance Contract Project (ESPC) in 1997. All of the boilers were natural gas fired steam boilers. The buildings have natural gas, water and process sewer connections. The interior of the buildings are single rooms sized to hold either one or two package boiler systems. The inside floor drain(s) and intermittent blowdown separators all drain to a sump in each annex, which were tied into the process sewer line.

The 323-BA building was located just west of the 3760 Library, south of the 323 building and supplied steam to the 321, 323, and 3760 Buildings.

3760 Building Characterization:

Table 1. Summary of Characterization Surveys at 3760

Type	Date	Documented In	Results Summary
Asbestos	3/15/10 3/29/10 2/22/11 9/13/11 12/3/12	CCN# 149530 CCN# 150122 CCN# 156469 CCN# 161253 CCN# 168910	Friable, Category I and II materials present in the form of TSI, transite, gaskets, putty, mastic and asphaltic roofing.
IH Surveys and Beryllium Characterization	3/11/09 6/3/10	CCN# 143660 CCN# 151716	Building determined to be Be free prior to demolition. Elevated lead and cadmium detected in electrical panels.
Radiological Surveys	2/26/12 10/1/12	RSR-300PS-12-0665 RSR-300PS-12-3552	No radiological contamination identified.

323BA Building Characterization:

Table 2. Summary of Characterization Surveys at 323BA

Type	Date	Documented In	Results Summary
Asbestos	4/26/12	CCN# 166144	No ACM identified through inspection and testing.
IH Surveys and Beryllium Characterization	3/21/13	BFA-323-13-001	Building determined to be Be free prior to demolition.
Radiological Surveys	12/26/12	RSR-300PS-12-4622	No radiological contamination identified.

Identification of Document Waste Sites:

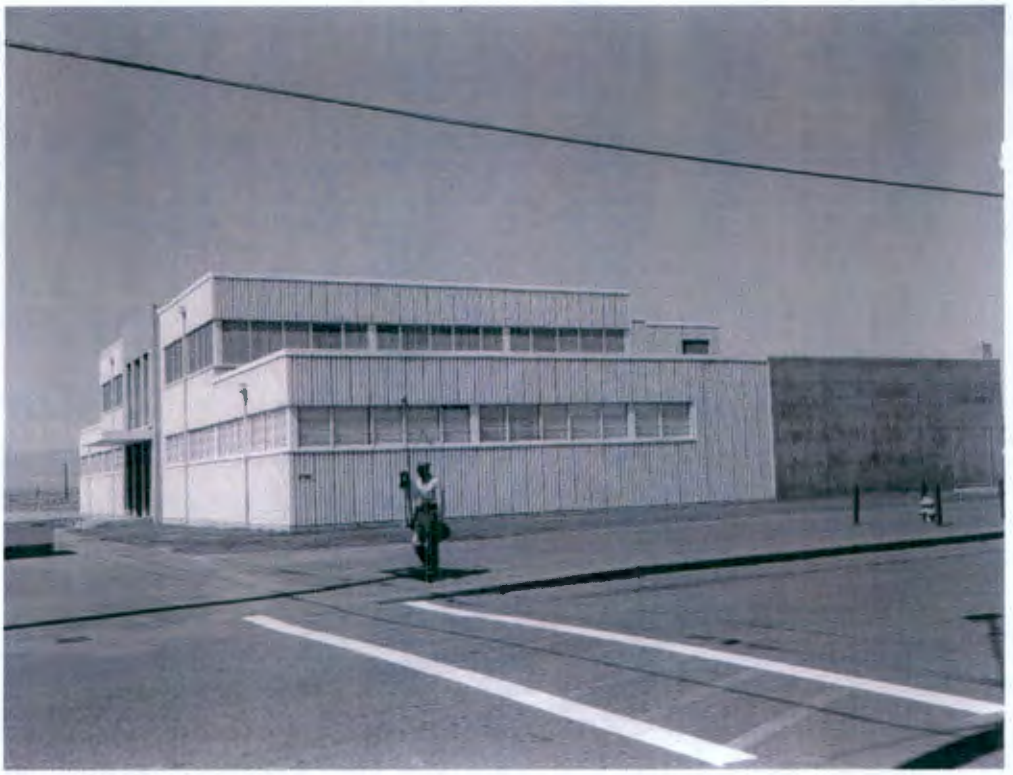
300-15 (process sewer) piping serviced the 323 Boiler Annex.

Anomalies Discovered During Demolition:

No anomalies were discovered during the below-grade removal of both the 3760 and 323BA foundations. A visual inspection conducted on 10/30/13 identified no soil staining within the excavation. GPERS surveys (Attachment 3) identified no radiological contamination. The common excavation was backfilled with clean fill material.

Attachment 2: Project Photographs

Photograph 1: 3760 building, looking northwest on June 1, 1957.



Photograph 2: 3760 building, looking southeast in June 2006.

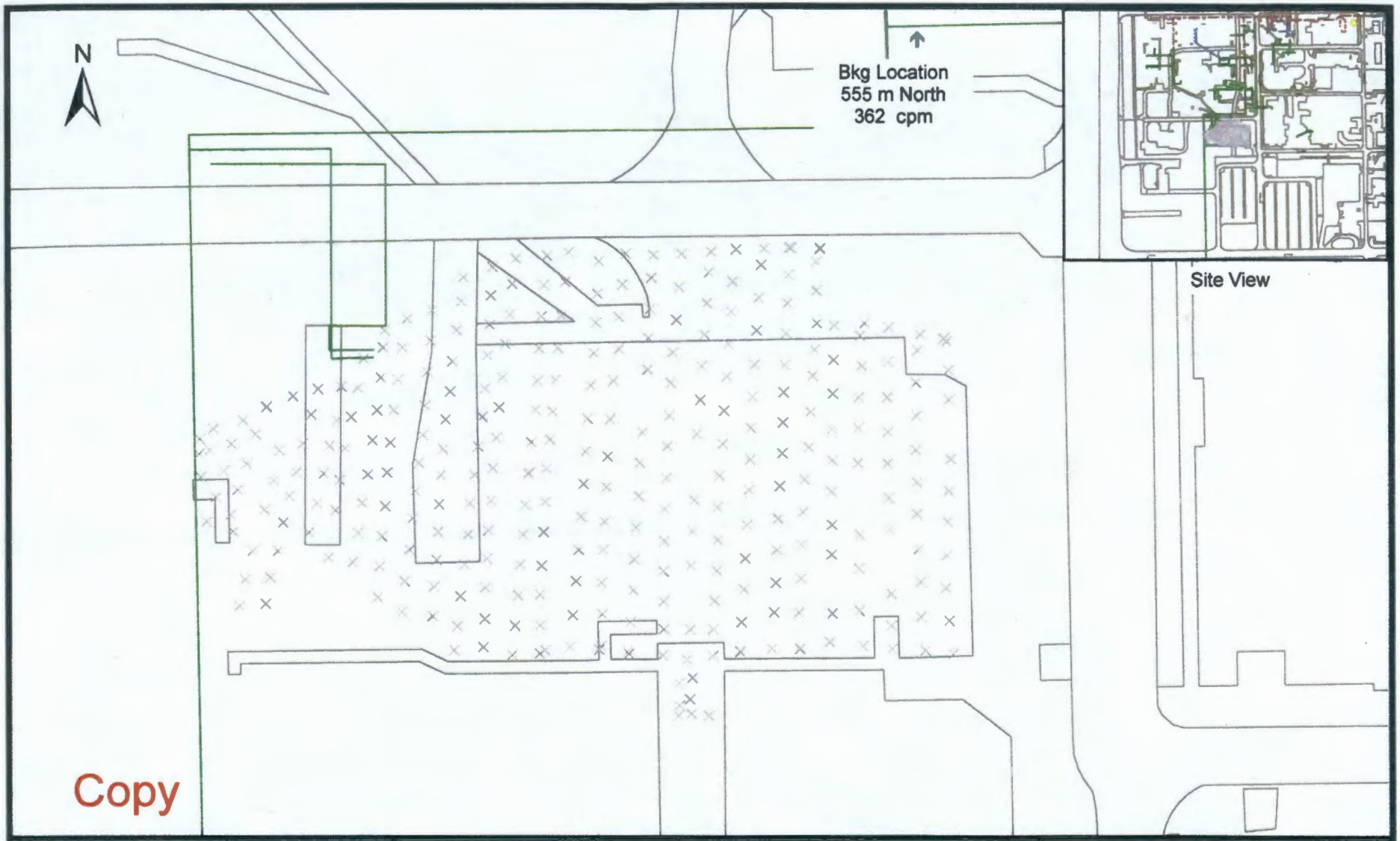
Photograph 3: 323 Boiler Annex, looking southeast on March 28, 2006.

Photograph 4: 3760 Vault during demolition, looking west on September 16, 2013

Photograph 5: 3760/323BA Excavation following below-grade demolition and load-out, looking south east on October 30, 2013

Photograph 6: 3760/323BA Excavation following backfill, looking southwest on November 5, 2013

Attachment 3: GPERS Surveys of the Common 3760/323BA Excavation Footprint (Beta and Gamma Tracks)



Legend

NET CPM

- × <543
- 543 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4_303A
Number of Data Pnts: 362
Type of Survey: beta
Max GCPM: 622
Avg Bkg CPM: 362
Survey Date: 10/30/2013
Area Surveyed: 3,080 m^2
Project File: ESRFRM130065B
Pdf File: ESRFRM130065BC

300 D4
3760 and 323-BA
GPERS Radiological Survey
Beta Track Map

0 5 10 15 20 25 Meters

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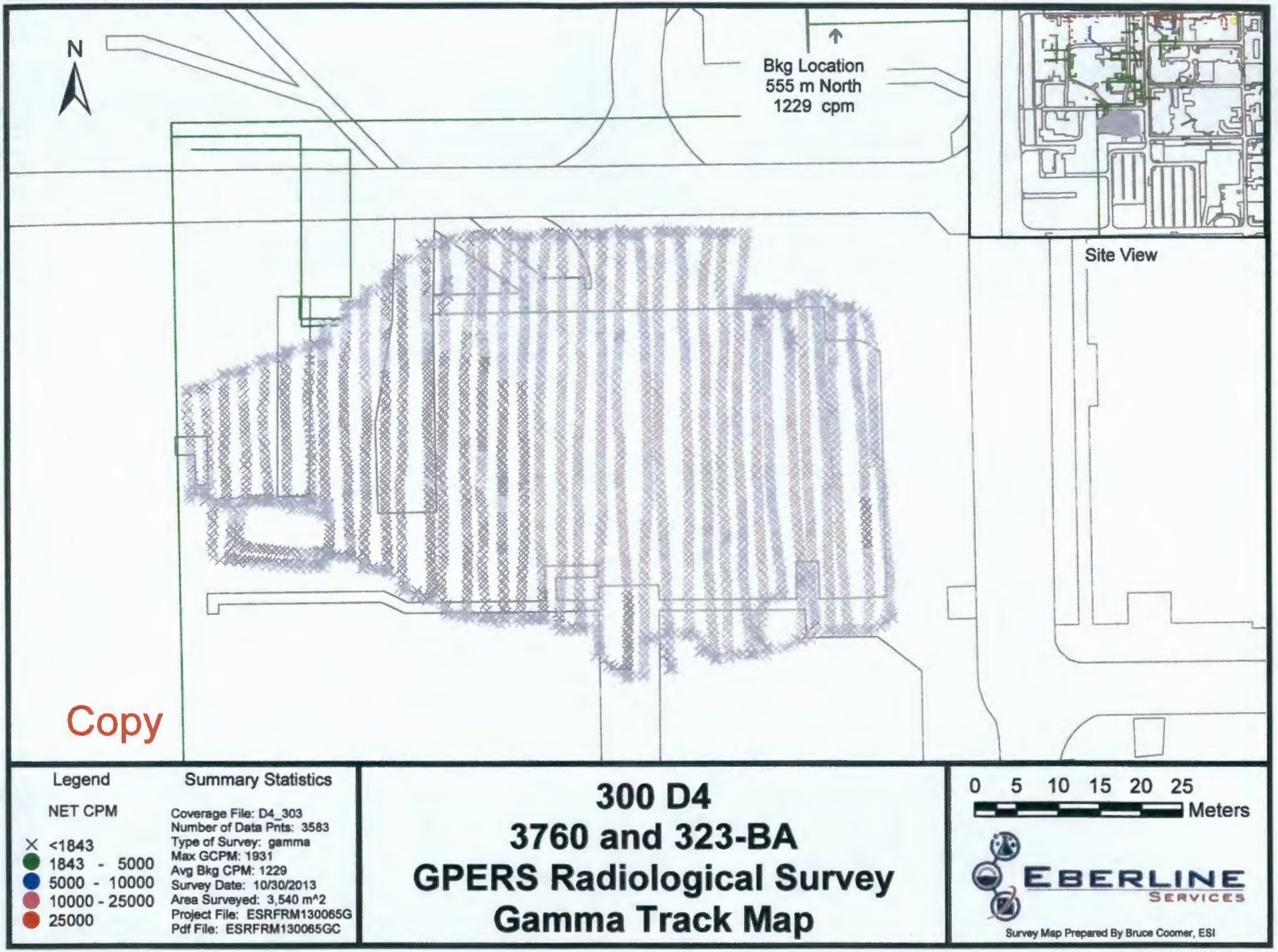
Survey Map Prepared By Bruce Coomer, ESI



Legend

NET CPM

- X <1843
- 1843 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4_303
Number of Data Pnts: 3583
Type of Survey: gamma
Max GCPM: 1931
Avg Bkg CPM: 1229
Survey Date: 10/30/2013
Area Surveyed: 3,540 m^2
Project File: ESRFRM130065G
Pdf File: ESRFRM130065GC

300 D4
3760 and 323-BA
GPERS Radiological Survey
Gamma Track Map

0 5 10 15 20 25 Meters

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Survey Map Prepared By Bruce Coomer, ESI