

Control #: D4-100N-0064

FACILITY STATUS CHANGE FORM

Date Submitted: 7-28-2014 Originator: Dan Saueressig Phone: 509-521-5326	Area: 100-N Facility ID: 100-N AOC Area 7 Action Memorandum: 100-N Ancillary Facilities	Control #: D4-100N-0064
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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

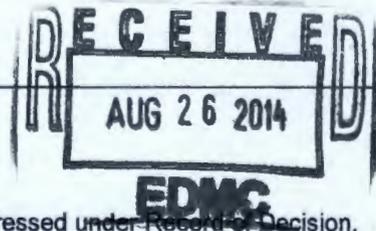
- All D4 operations required by action memo complete.
- D4 operations required by action memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:

The 100-N AOC Area 7 consists of 1 small area on the west (river) side of N Reactor that provided access to the following ancillary facilities; 181-N River Pumphouse, 1908-N Outfall, 1304-N Emergency Dump Tank, 1300-N Emergency Dump Basin and the rear entrance to the 107-N Basin Recirculation Facility. A portion of this area is currently being backfilled and contoured/sloped in preparation for revegetation.

Description of Deferral (as applicable):

N/A



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 100-N AOC Area 7 consists of 1 small area on the west (river) side of N Reactor that provided access to the following ancillary facilities; 181-N River Pumphouse, 1908-N Outfall, 1304-N Emergency Dump Tank, 1300-N Emergency Dump Basin and the rear entrance to the 107-N Basin Recirculation Facility. A portion of this area is currently being backfilled and contoured/sloped in preparation for revegetation.

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

N/A

Section 3: List of Attachments

Sample Determination Form (SDF-100N-038)

DOE-RL 	8/4/2014 Date
Lead Regulator <input type="checkbox"/> EPA <input checked="" type="checkbox"/> Ecology	8/7/14 Date

FACILITY STATUS CHANGE FORM

DISTRIBUTION:

EPA: Dennis Faulk, B1-46

Ecology: Wanda Elliott, H0-57

DOE: Rudy Guercia, A3-04

Document Control, H4-11 H0-30

Administrative Record, H6-08 100-NR-1

SIS Coordinator: Benjamin Cowen, H4-22

D4 EPL: Chris Strand, L4-45

Sample Design/Cleanup Verification: Theresa Howell, H4-23

FR Engineering: Rich Carlson, H4-22

FR EPL: Dan Saueressig, X8-02

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-038

A. INSTRUCTIONS

This form must be completed to: 1) document existing data in order to determine if current data is suitable to prove completion of 100-N Ancillary Facilities, or 2) document that site-specific sampling and analyses are needed to provide completion for 100-N Ancillary Facilities.

B. GENERAL INFORMATION

Building Name: 100-N AOC Area 7

Building Number: N/A

WIDS Sites Associated or Adjacent:

Historical information reviewed indicates AOC Area 7 functioned primarily as a road and entry area to the facilities on the west side of 100-N Reactor (181-N Intake Structure, 1908-N Outfall, 1304-N Emergency Dump Tank, 1300-N Emergency Dump Basin and the rear entrance to the 107-N Basin Recirculation Facility). In addition, the north 181-N Anchor Block was located in this area. Aerial photographs of AOC Area 7 are provided in Attachment 1. WIDS sites surrounding and within 10 feet of AOC Area 7 perimeter include:

100-N-53, 181N Building Waste Oil Tank (Storage Tank), Interim Closed Out, RSVP 2013-019, WSRF No. 2011-064

100-N-56, 181N Building Drywell (French Drain), Rejected

100-N-61:1, Water Treatment and Storage Facilities Underground Pipelines South of 109N (Process Sewer), Interim Closed Out, RSVP 2013-109, WSRF No. 2011-064

100-N-61:4, Water Treatment and Storage Facilities Underground Pipelines South of 182N (Process Sewer), Interim Closed Out, RSVP 3013-051, WSRF No. 2013-051

100-N-73, 107N Building West Area Stormwater Runoff, Miscellaneous Stream #395 (Injection/Reverse Well), Not Accepted

100-N-76, 181N Pumphouse French Drains (French Drain), Rejected

100-N-77, 100-N River Effluent Pipeline, River Line From 1908N Outfall (Radioactive Process), Accepted. To be addressed in final ROD

100-N-79, 1908N Spillway, 1908N Outfall Structure, 100-N-77:1 Flume (Outfall), Interim Closed Out, RSVP-2013-130, WSRF No. 2013-130

100-N-84:1, 100-N Area Raw Water Pipelines (Product Piping), No Action

100-N-84:2, 100-N Area Fuel and Foam Pipelines (Product Piping), Closure documentation currently being finalized

100-N-84:3, 100-N Area Filtered and Potable Water Pipelines (Product Piping), No Action

100-N-84:5, 100-N Area Sanitary Sewer (Product Piping), Closure documentation currently being finalized

100-N-84:6, 100-N Chemical and Process Sewer Pipelines (Product Piping), Closure documentation currently being finalized

100-N-84:7, 100-N Area Unidentified and Other Miscellaneous Pipelines (Product Piping), No Action

1908-N, 1908N Outfall, Interim Closed Out, WSRF No. 2012-068, FSCF No. D4-100N-0038

Other:

Buildings adjacent to the western portion of AOC Area 7 include the 181-N River Pumphouse, 181-NA River Pumphouse Guard Tower, 181-Nb Diesel Pumphouse and the 181-NE HGP River Pumphouse. the 1908-N Outfall Structure was to the north of AOC Area 7. All wells within 10 feet from AOC Area 7 have been decommissioned and removed.

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-038

C. INFORMATION SOURCES

Available information (list document number for each if applicable):

Historical Site Assessment: <u>N/A</u>	Site Walkdown: <u>See Attachment 3</u>
IH Characterization Report: <u>N/A</u>	Radiological Survey: <u>See Attachment 4</u>
IHC/FHC Document: <u>N/A</u>	WIDS/SIS: <u>See Section B above.</u>
PDSR: <u>NA</u>	Facility Inspection: <u>Visual Inspection (Attachment 3)</u>
Waste Characterization Checklist: <u>N/A</u>	Summary Report: <u>N/A</u>

Other:

D. HAZARDOUS SUBSTANCES

Check all that apply:

- None
 Asbestos containing material
 Lead
 PCBs/PCB Articles
 Oils/Greases
 Chemicals List: _____
 Radiological Contamination Mercury/Mercury Devices
 Other: _____

References/Comments:

Liquids: Yes No

If yes, describe source and nature of liquids:

Were the hazardous substances removed from the facility prior to demolition? Yes No

As verified by what documentation:

The AOC is not a facility. Surrounding facilities have their own FSCFs.

Was there potential for hazardous substances to be introduced into the soils during facility operations or demolition? Yes No N/A

References/Comments:

Visual inspection performed (Attachment 3) confirming no staining or other anomalous conditions observed.

List any hazardous materials left in the building for demolition:

N/A

Does review of historical records and process knowledge indicate a potential for radiological or chemical contamination to be present in the facility?

No

Comments:

E. FIELD OBSERVATIONS

Visual Inspection

Were any stained soils/anomalies discovered during or after demolition of the facility? Yes No

References/Comments:

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-038

Were samples taken of the stained soils/anomalies?

Yes No N/A

References/Comments:

Do results of the samples indicate that chemical contamination exists?

Yes No N/A

References/Comments:

Is the area potentially a discovery site?

Yes No

References/Comments:

Radiological Surveys

Did radiological surveys (GPERS or equivalent) identify contamination?

Yes No

References/Comments:

Radiological surveys of AOC Area 7 for beta and gamma contamination using GPERS identified no contamination greater than 1.5 x background. Composite diagrams of the surveys are presented in Attachment 4. The entire area was not surveyed due to inaccessible areas (fall hazards or unstable, steep vegetated terrain directly adjacent to shoreline); however, these areas were not used for management of radiological waste and during high river flows many areas were under water. In addition, hundreds of in-process hand held surveys never indicated that radiological contamination was discovered south of the reactor or within the Field Remediation waste sites in AOC Area 7.

Were samples taken of the radiologically contaminated soils?

Yes No N/A

References/Comments:

Is the area potentially a discovery site?

Yes No

References/Comments:

Were the contaminated materials removed?

Yes No N/A

References/Comments:

F. WIDS SITES

Were there any WIDS sites affected by D4 activities? Yes No

If yes, list the WIDS sites:

Were the WIDS site(s) completely removed?

Yes No

References/Comments:

WIDS sites adjacent of AOC Area 7 were removed. See Section B for list of WIDS sites.

Will the Ancillary Facility Footprint be deferred to FR to be closed out with a co-located Waste Site? Yes No

References/Comments:

G. COPCs FOR SOILS AND STRUCTURES REMAINING AFTER DEMOLITION

What are the potential contaminants of concern for the remaining below-grade soil?

None SVOC VOC Metals TPH Rad PCBs

Other (Specify): _____

Comments:

100-N ANCILLARY FACILITIES REMOVAL ACTION SAMPLING DETERMINATION FORM

Determination Number
SDF-100N-038

Summary of in-process soil sampling requirements:

N/A

Constituents detected / concentrations / rationale

N/A

Sample Collection Summary

N/A

H. NOTES / ADDITIONAL INFORMATION

Check here if additional information / data / maps / sketches are attached to this form.

If checked, list the attachment(s):

Attachment 1. Photographs of AOC Area 7

Attachment 2. WIDS Sites around AOC Area 7

Attachment 3. Visual Inspection of 100-N AOC Area 7

Attachment 4. Global Positioning Environmental Radiological Surveyor (GPERS) Surveys of AOC Area 7

I. SAMPLING

Are soil samples required to demonstrate that remaining structure or below-grade soils meet cleanup standards?

Yes No

Based on the above information it was determined that sampling: will will not be required in order to demonstrate that cleanup criteria have been met.

The individual below acknowledges that the review of this facility has been completed. He or she also commits to provide to the Department of Energy (DOE) and the Washington State Department of Ecology (Ecology) any available information that could alter the sampling decision established in this form.

Information Reviewer Signature



Printed Name

Dan Saueressig

Date

7/28/2014

The regulatory representative below agrees with the decision outlined in section I of this form for the indicated facility and supports implementation of that decision based on the information currently available.

DOE Signature



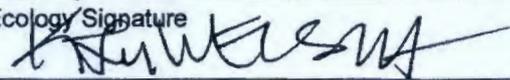
Printed Name

Rudy Guercia

Date

8/7/14

Ecology Signature



Printed Name

KIM WELSCH

Date

8/7/14

Attachment 1

Photographs of AOC Area 7

Photo 1. Location of AOC Area 7 Relative to Other Structures at 100-N



Photo 2. AOC Area 7 at 100-N



General Location of AOC Area 7 (date unknown)

Photo 3. AOC Area 7 in January 2007



AOC Area 7 in January 2007

Photo 4. AOC Area 7 in June 2011



Photo 5. AOC Area 7 in May 2014



Attachment 2

WIDS Sites and Wells Around AOC Area 7

Attachment 3

Visual Inspection of 100-N AOC Area 7

176310

^WCH Document Control

From: McCurley, Clay D
Sent: Monday, June 16, 2014 8:59 AM
To: ^WCH Document Control
Subject: Visual Inspection of 100-N AOC Area 7
Attachments: Visual Inspection Photographs.doc

Folks. Please print the attachment (below) in color and chron with this email as documentation that 100-N AOC Area 7 was visually inspected. Let me know which number was assigned. Thanks. Clay

From: McCurley, Clay D
Sent: Thursday, June 12, 2014 12:35 PM
To: Allen, Mark E
Subject: Visual Inspection of 100-N AOC Area 7

Mark. I went out to 100-N on Tuesday, inspected AOC Area 7, and took photographs (attached). I didn't see any stains or anomalies. The area looks good. Contact me if you have any questions. Clay



Visual Inspection
Photographs....

Visual Inspection Photographs of 100-N AOC Area 7
June 10, 2014

Photo 1. Road Down to AOC Area 7 (facing north)



Photo 2. AOC Area 7 (facing north)



Visual Inspection Photographs of 100-N AOC Area 7
June 10, 2014

Photo 3. Northern Portion of AOC Area 7 (facing north)



Photo 4. AOC Area 7 (facing northwest)



Visual Inspection Photographs of 100-N AOC Area 7
June 10, 2014

Photo 5. AOC Area 7 (facing south)

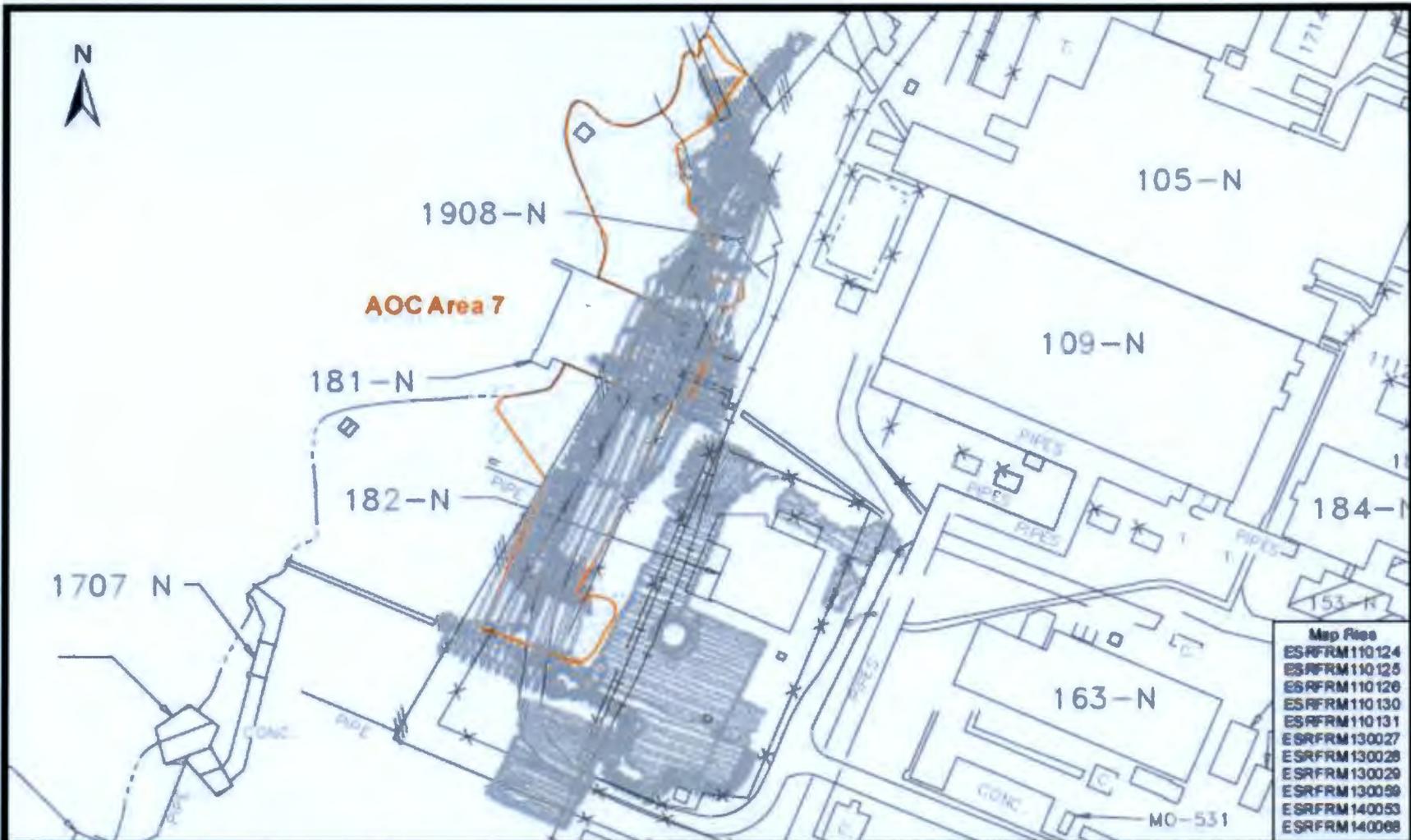


Photo 6. AOC Area 7 (facing south)



Attachment 4

Global Positioning Environmental Radiological Surveyor (GPERS) Surveys of AOC
Area 7



- Map Files
- ESRFRM110124
 - ESRFRM110125
 - ESRFRM110126
 - ESRFRM110130
 - ESRFRM110131
 - ESRFRM130027
 - ESRFRM130028
 - ESRFRM130029
 - ESRFRM130099
 - ESRFRM140053
 - ESRFRM140068

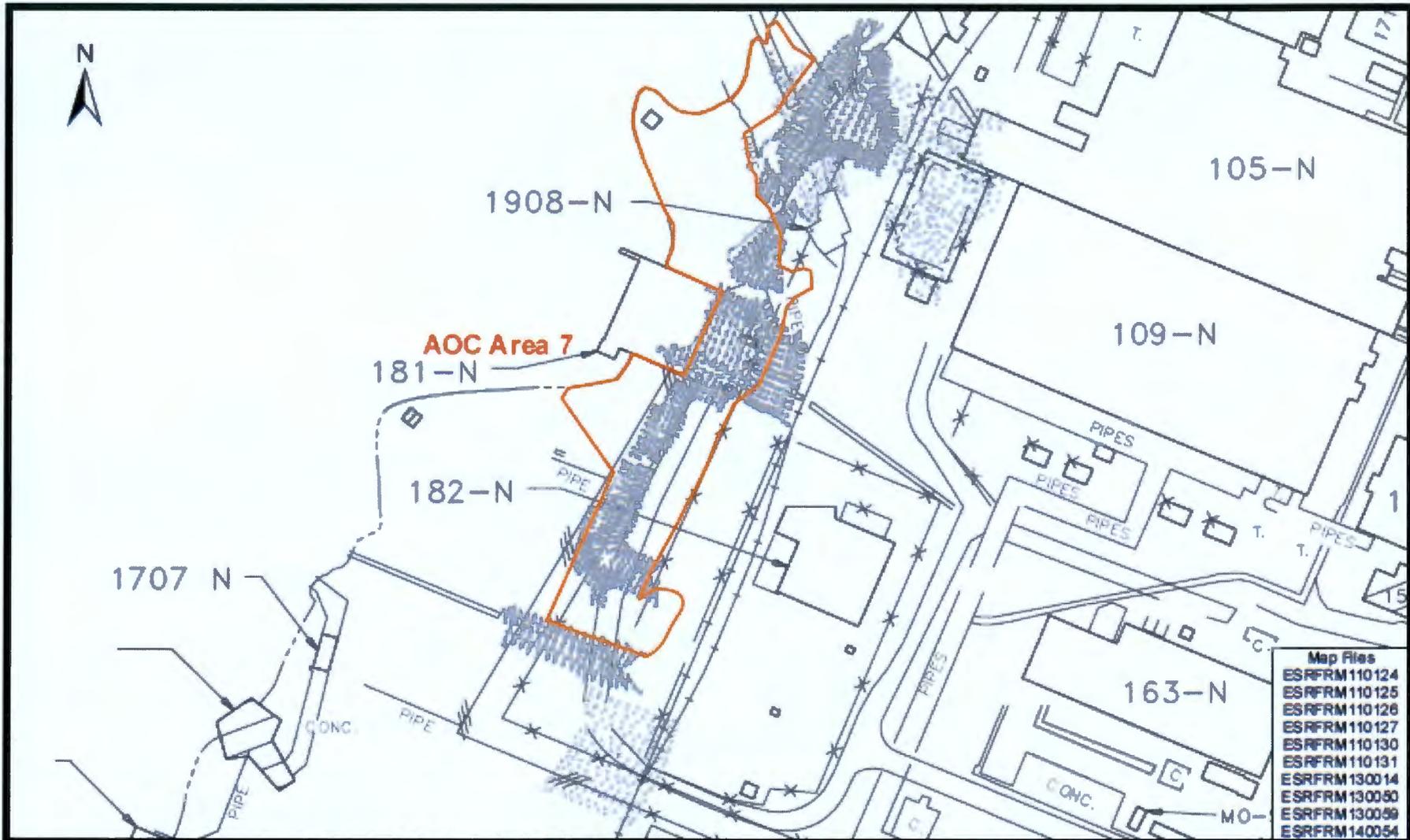
Legend		Summary Statistics	
NET CPM		Number of Data Pts: 40,062	
X	<1.5x bkg	Type of Survey: Gamma	
●	1.5x bkg - 5000	Max GCPM: 3,140	
●	5000 - 10000	Avg Bkg CPM: 1,229	
●	10000 - 25000	Survey Dates: 06/01/2011 through 07/18/2014	
●	25000	Area Surveyed: 17,496 m ²	
		Project File: 100N_AOC_70	
		Plot File: 100N_AOC_70_2	

100N
AOC Area 7
GPERS Radiological Survey
Gamma Track Map

0 1020304050

 Meters

Survey Map Prepared By: Steve Carter, ESI



- Map Files**
- ESRFRM110124
 - ESRFRM110125
 - ESRFRM110126
 - ESRFRM110127
 - ESRFRM110130
 - ESRFRM110131
 - ESRFRM130014
 - ESRFRM130080
 - ESRFRM130099
 - ESRFRM140054

Legend	Summary Statistics
NET CPM	Number of Data Pnts: 25,653
X <1.5 x bkg	Type of Survey: Beta
● 1.5x bkg - 5000	Max GCPM: 1,167
● 5000 - 10000	Avg Bkg CPM: 394
● 10000 - 25000	Survey Dates: 06/01/2011
● 25000	through 06/03/2014
	Area Surveyed: 8,823 m ²
	Project File: 100N_AOC_7B
	Pdf File: 100N_AOC_7B_1

100N
AOC Area 7
GPERS Radiological Survey
Beta Track Map

0 10 20 30 40 50
 Meters

Survey Map Prepared By Bruce Coover, ESR