

# Quarterly Environmental Radiological Survey Summary

## First Quarter 1995 100, 200, 300, and 600 Areas

S. M. McKinney

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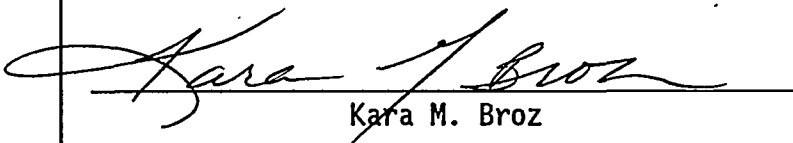
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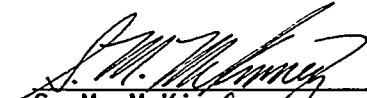
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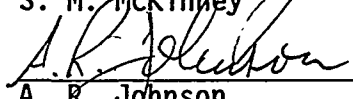
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QUARTERLY  
ENVIRONMENTAL RADIOLOGICAL SURVEY SUMMARY  
100, 200, 300, 400, and 600 Areas

1st Quarter 1995

S. M. McKinney

ENVIRONMENTAL MONITORING AND INVESTIGATIONS  
NEAR-FIELD MONITORING

EXECUTIVE SUMMARY

This report provides a summary of the radiological surveys performed in support of the operational environmental monitoring program at the Hanford Site. The First Quarter 1995 survey results and the status of actions required from current and past reports are summarized below:

- All the routine environmental radiological surveys scheduled during January, February, and March 1995 were completed with the exception of the french drains within the PFP exclusion fence and the 600 area road surveys.
- One hundred twenty six environmental radiological surveys were performed during this period, thirty four at the active waste sites and 92 at the inactive waste sites. Contamination above background levels was found at eleven of the active waste sites and four of the inactive waste sites. Contamination levels as high as 1,000,000 disintegrations per minute (dpm) were reported. Of these contaminated surveys four were in Surface Contamination (SC) areas and eleven were in Underground Radioactive Material (URM) areas or unposted. The contamination found within the URM areas was immediately cleaned up and no further action was required with the exception of a contaminated wooden drain cover at 216-B-51 and a contaminated marker post found at UN-216-E-10 which were marked as surface contamination. Radiation Problem Reports (RPR's) were issued and the sites were turned over to the landlord for further action if required.
- No Compliance Assessment Reports (CARs) were issued for sites found out of compliance with standards identified in WHC-CM-7-5, Environmental Compliance.
- Three Surveillance Compliance/Inspection Reports (SCIRs) were closed during the First Quarter of 1995.
- Eight open SCIRs had not been resolved.

Responsibilities for the unresolved SCIRs are as follows:

<u>LANDLORD</u>	<u>OPEN SCIR/CAR</u>
Environmental Restoration Contractor (ERC)	0
B Plant	1
PUREX	1
Tank Farm Operations (TFO)	6

TOP TEN PRIORITY RANKING

Below is a listing of the top ten waste sites in order of highest priority ranking for contamination control. The waste site may have an open SCIR or CAR identifying the contamination. An explanation of the prioritization system is on page 12 of this report. Priority rankings of the open SCIRs and CARs are listed in Table 1.

	<u>SITE</u>	<u>CUSTODIAN</u>	<u>SCIR/CAR</u>
1.	241-C Tank Farm Perimeters	TFO	9008EP200-095
2.	241-B Tank Farm Perimeters	TFO	8909EP200-036
3.	241-BX-BY Tank Farm Perimeters	TFO	9007EP200-056
4.	UN-216-E-36 216-B-64 Basin Area	B-Plant	9110ERI-001
5.	241-S, SX, SY Tank Farm Perimeters	TFO	9208ERI-006
6.	UN-216-E-5 241-B-154	TFO	8910EP200-043
7.	UN-216-E-16 TC-4 R.R. Spur	PUREX	8901EP200-001
8.	241-U Tank Farm Perimeters	TFO	9203ERI-002
9.	UN-216-E-6 241-BX-155 DIVERSION BOX	TFO	None
10.	UN-216-W-35 207-U RETENTION BASIN	TFO	None

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## 1.0 INTRODUCTION

Routine radiological surveys are part of the near-facility environmental monitoring program which monitors and helps direct the reduction of the radiologically controlled areas at the Hanford Site. The routine radiological surveys are performed by the Southern Area Remediation Support Group and the Site Surveillance Radiological Control Group as directed by Near-Field Monitoring. The surveys included in this program consist of inactive waste sites; outdoor radiological control areas; tank farm perimeters and associated diversion boxes, lift stations, and vent stations; perimeters of active or uncovered waste sites such as burial grounds, retention basins, ponds, process trenches, and ditches; and road and rail surfaces (Figures 1 through 10). This report provides a summary of the radiological surveys performed during the First Quarter of 1995. The status of corrective actions required from current and past reports are also discussed.

A waste site survey schedule, WHC-SP-0098-6, is developed by Near-Field Monitoring and approved by the Southern Area Remediation Support Group and the Site Surveillance Radiological Control Group. Near-Field Monitoring reviews the radiological survey reports and files a copy for historical purposes and reference. Radiological conditions are tracked and trends noted. All sites are surveyed at least once each year. The survey frequencies for particular sites are based on site history, radiological conditions, and general maintenance. Special surveys may be conducted at irregular frequencies if conditions warrant (e.g., growth of deep-rooted vegetation is noted at a waste site). Radiological surveys are conducted to detect surface contamination and document changes in vegetation growth, biological intrusion, erosion, and general site maintenance conditions. Survey data are compared with standards identified in WHC-CM-7-5, Environmental Compliance, as well as previous surveys to recognize possible trends, assess environmental impacts, and help determine where corrective actions are needed.

Landlords of the sites found out of compliance may be issued a Radiological Problem Report (RPR) from the Environmental Restoration Site Investigative Survey and Site Surveillance Radiological Control Groups. Should the landlord fail to respond to the identified problem in a timely manner, or if the corrective action will require a long-term commitment, Near-Field Monitoring will issue a Compliance Assessment Report (CAR). The Compliance Assessment Report, formerly called Surveillance Compliance Inspection Report (SCIR), is tracked to completion by Near-Field Monitoring. Open SCIRs and CARs are listed in Table 1 of this report.

The surveys scheduled for this program consist of inactive waste sites; outdoor radiological control areas; tank farm perimeters and associated diversion boxes, lift stations, and vent stations; perimeters of active or uncovered waste sites such as burial grounds, retention basins, ponds, process trenches, and ditches; and road and rail surfaces. Surveillance of the active nuclear facilities and inside the tank farms is the responsibility of the facility. These radiological surveys are to determine surface radiological conditions and do not constitute a release survey. Therefore, surveys that detect no contamination in radiologically controlled areas do not release the site from control but may result in a posting status change.

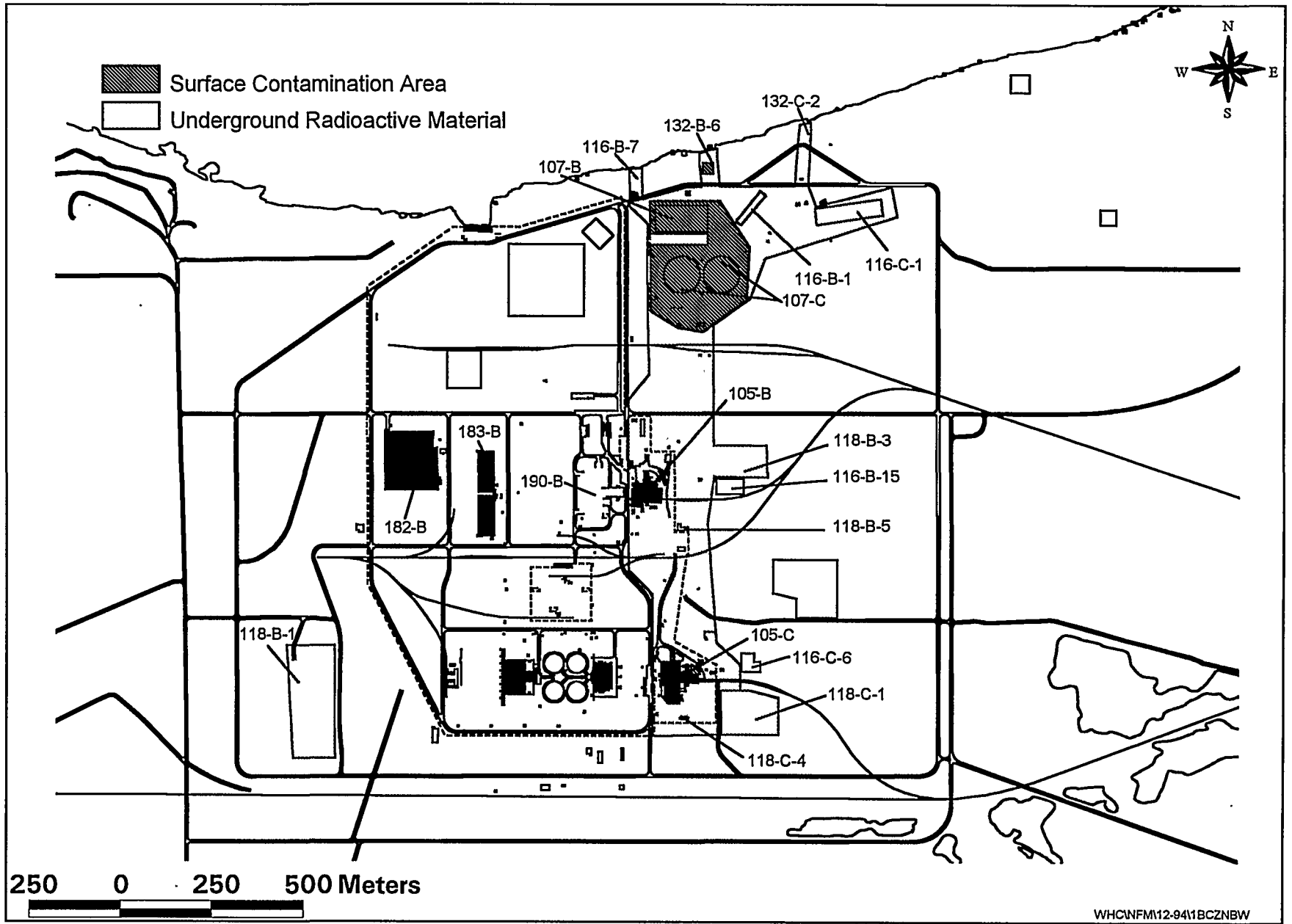
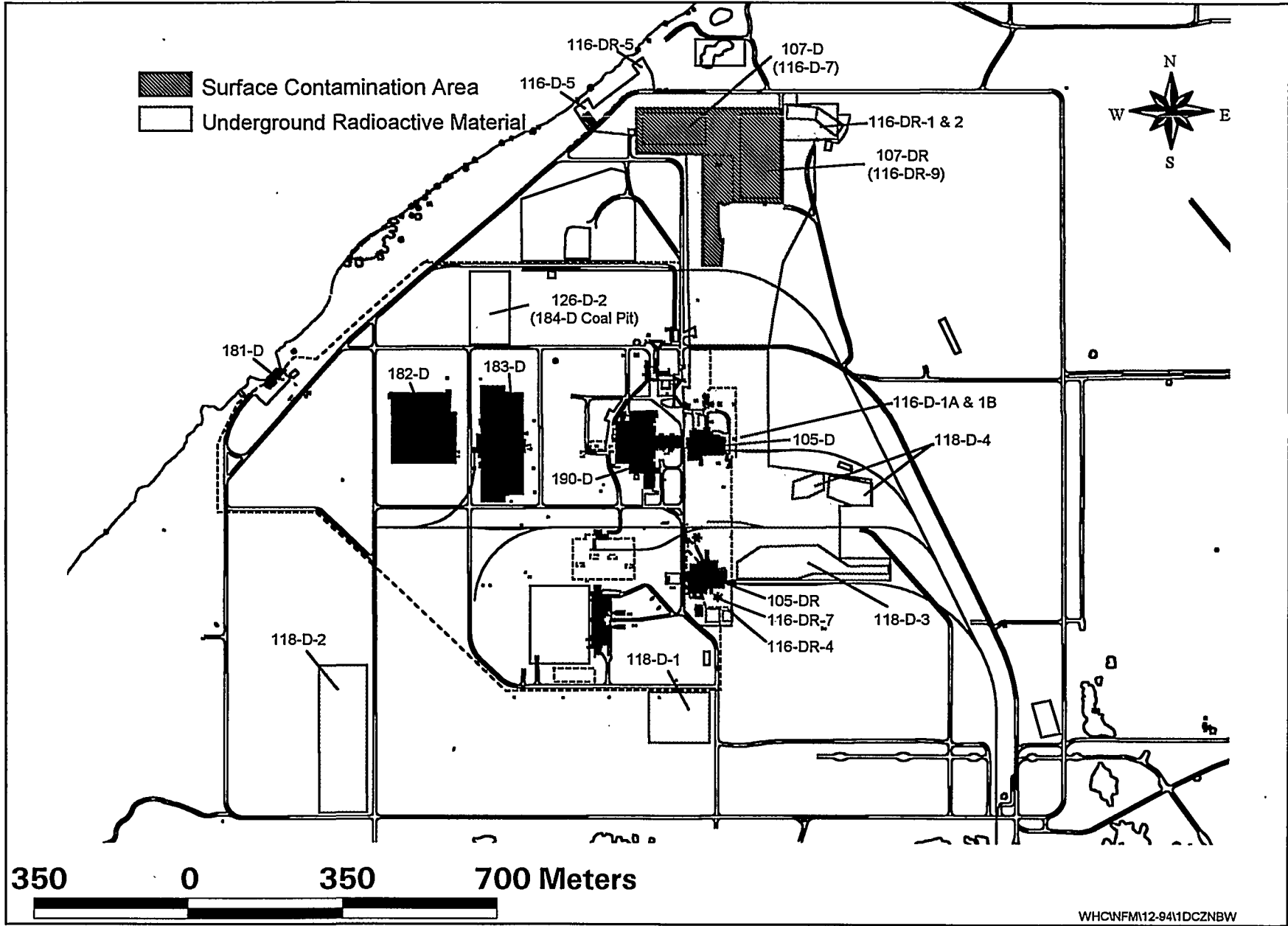
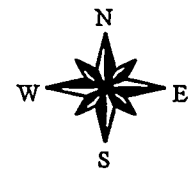


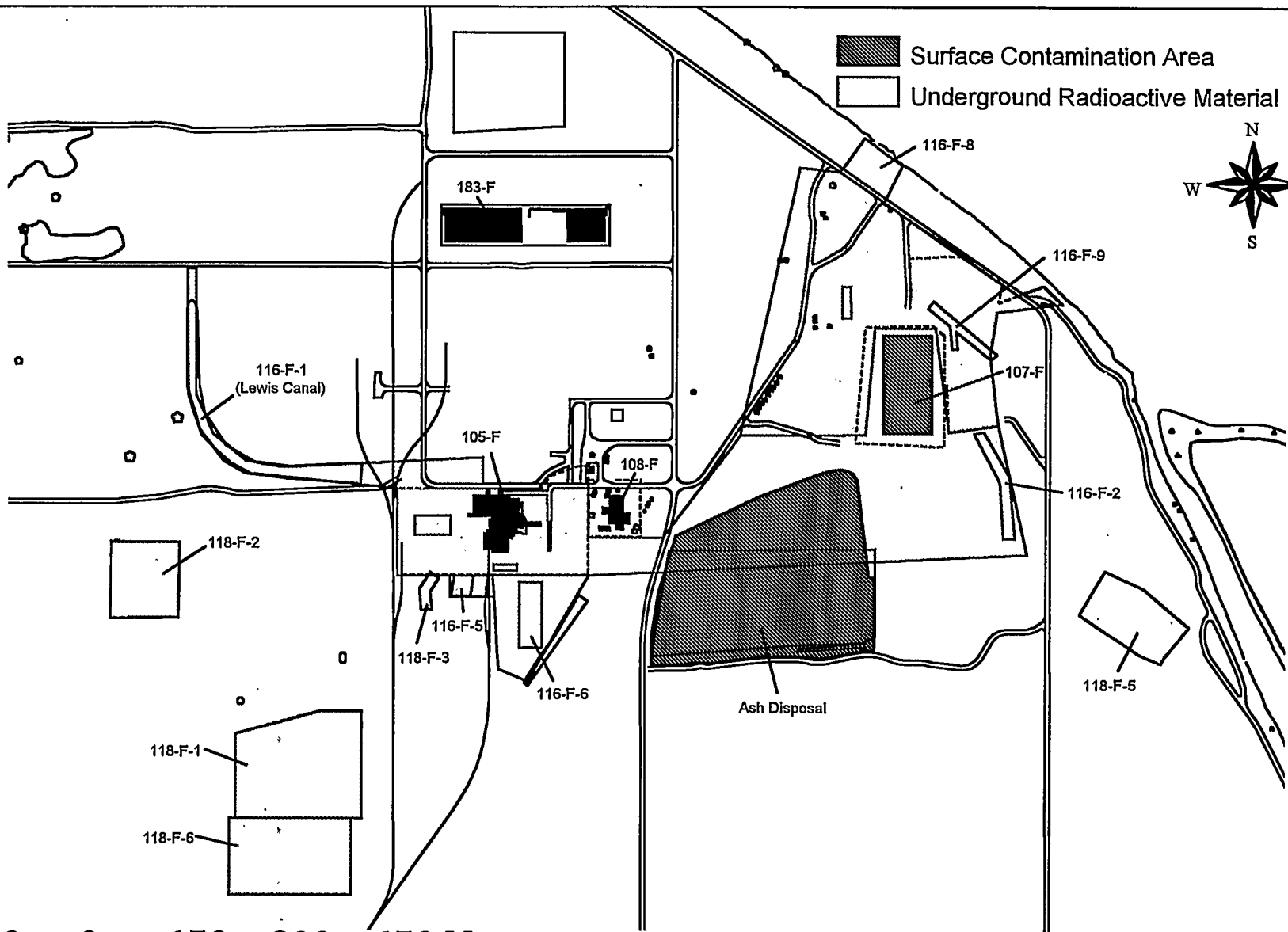
Figure 1

Figure 2





■ Surface Contamination Area  
□ Underground Radioactive Material



150 0 150 300 450 Meters

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4  
Figure 3

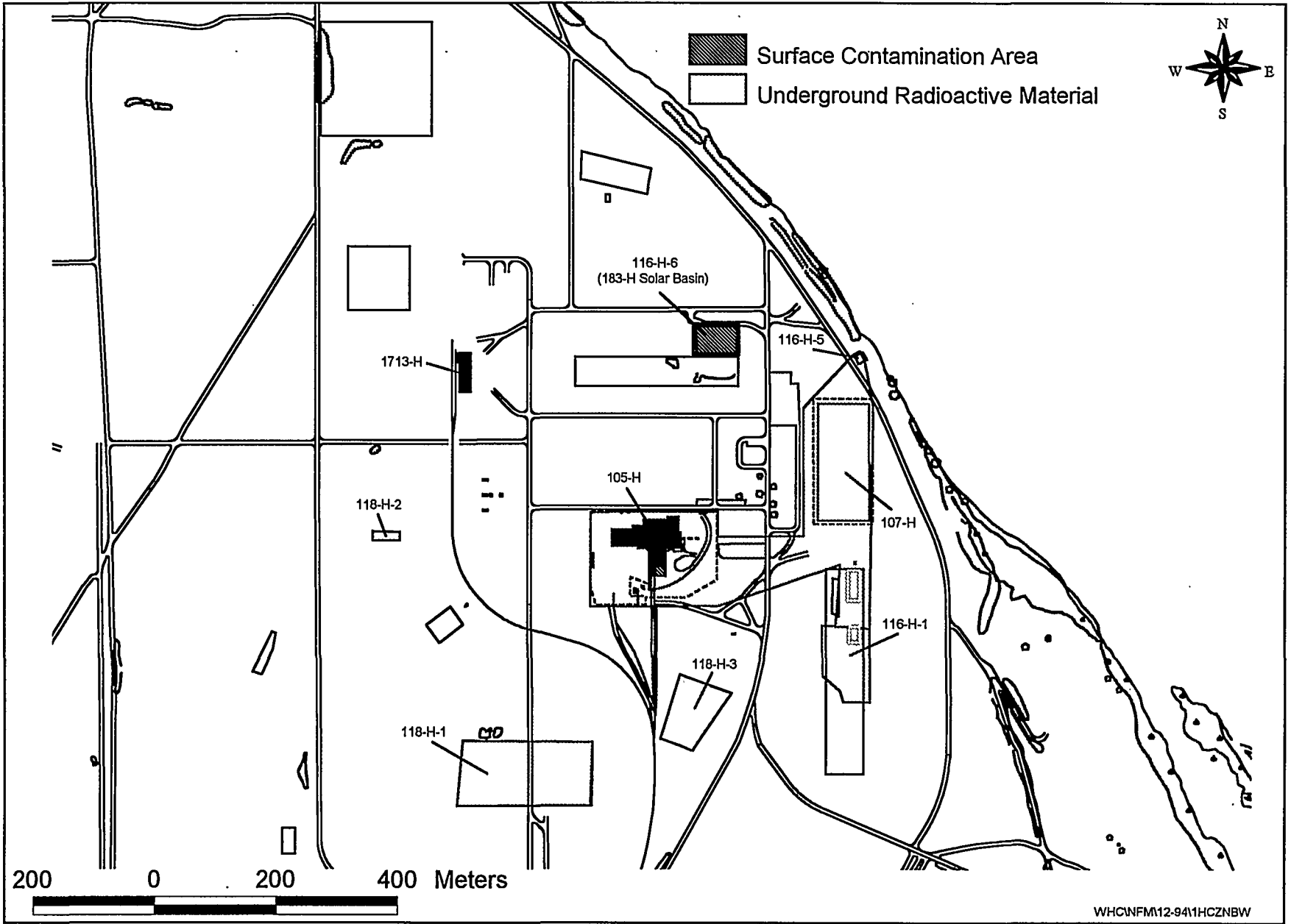
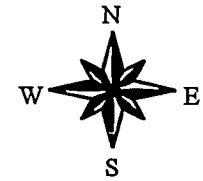


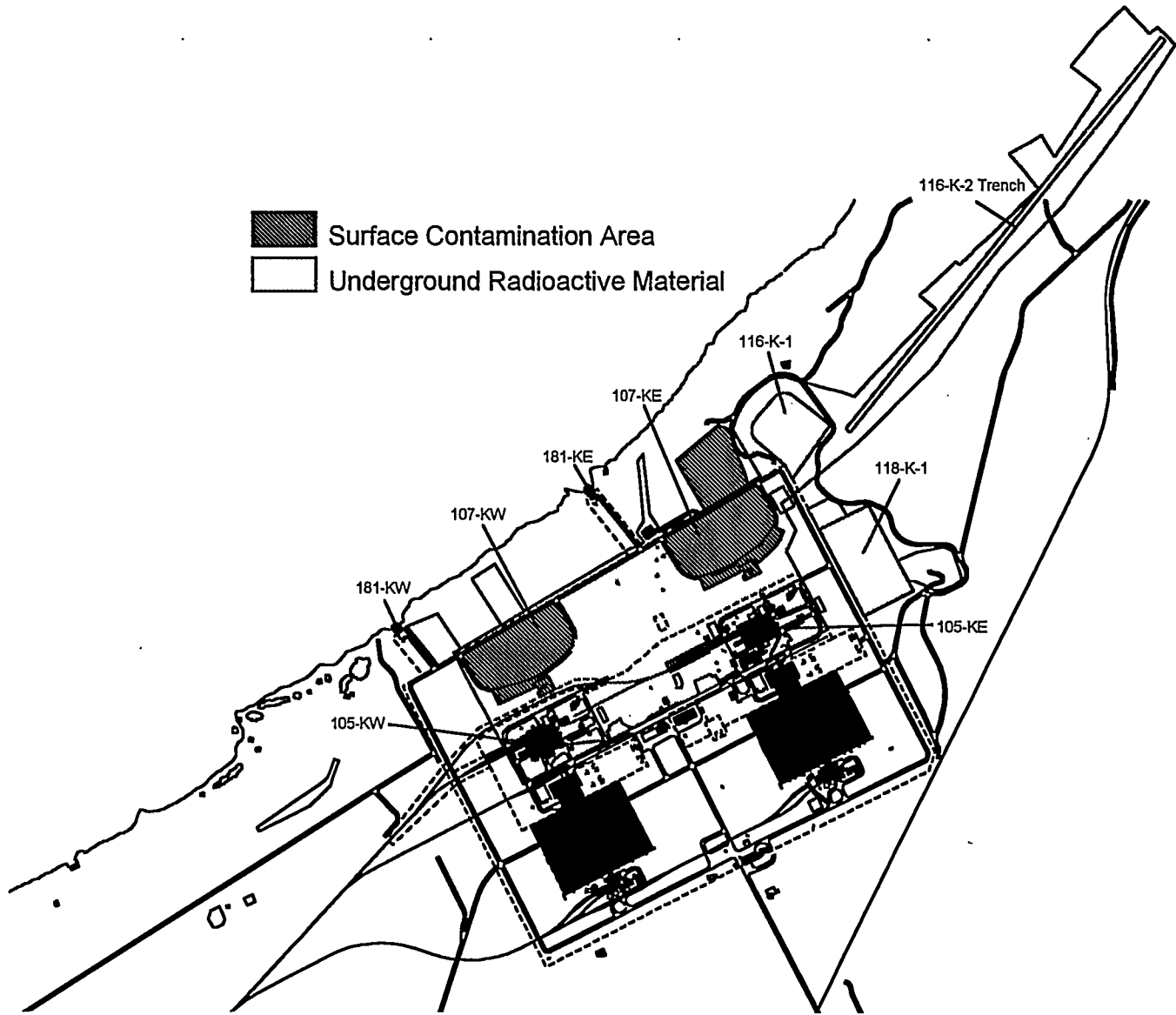


Figure 4

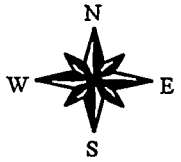




 Surface Contamination Area  
 Underground Radioactive Material



WHC-SP-0665-16

Figure 5



 Surface Contamination Area  
 Underground Radioactive Material

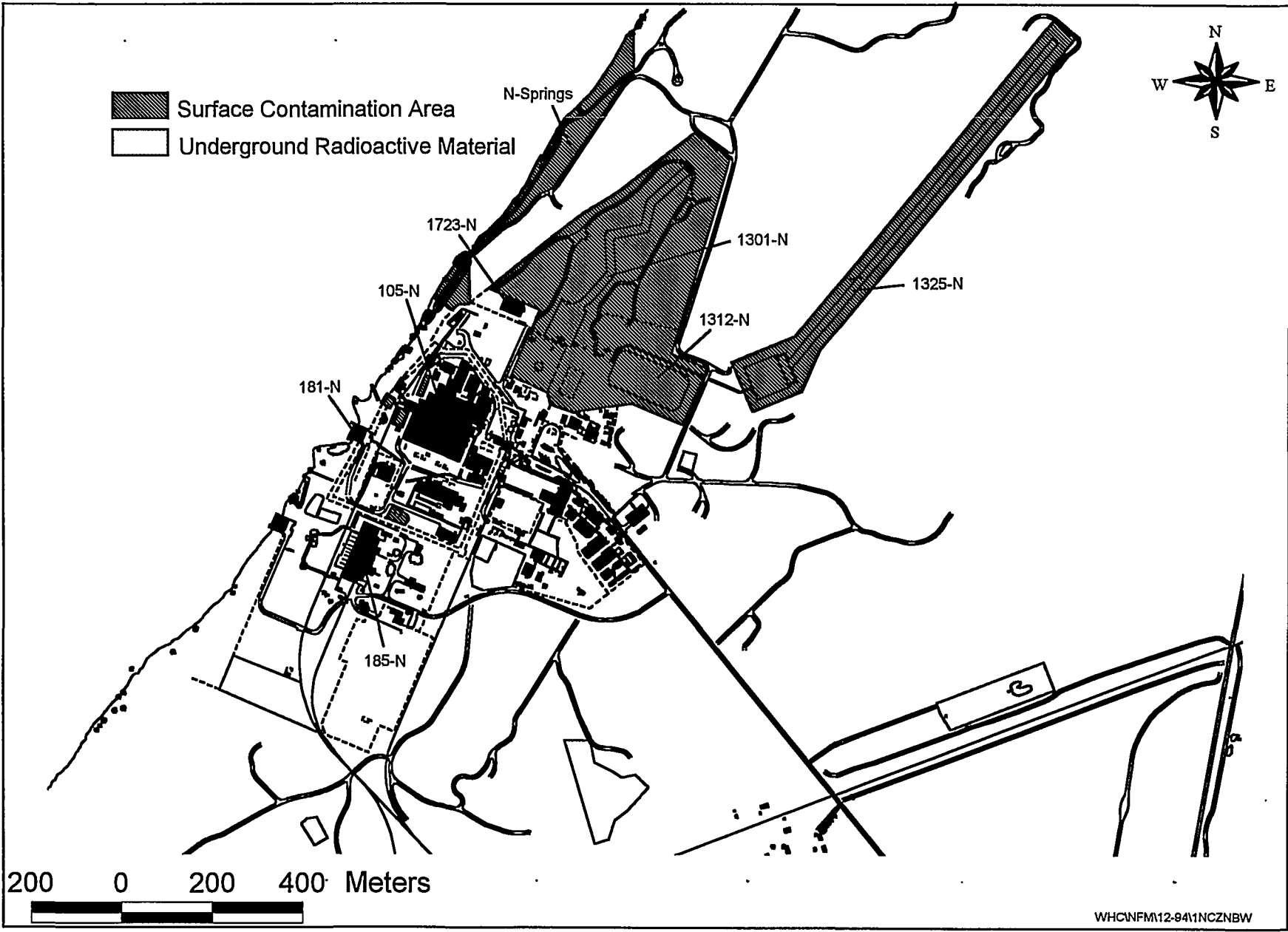
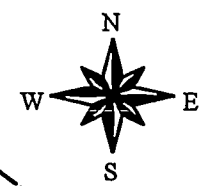
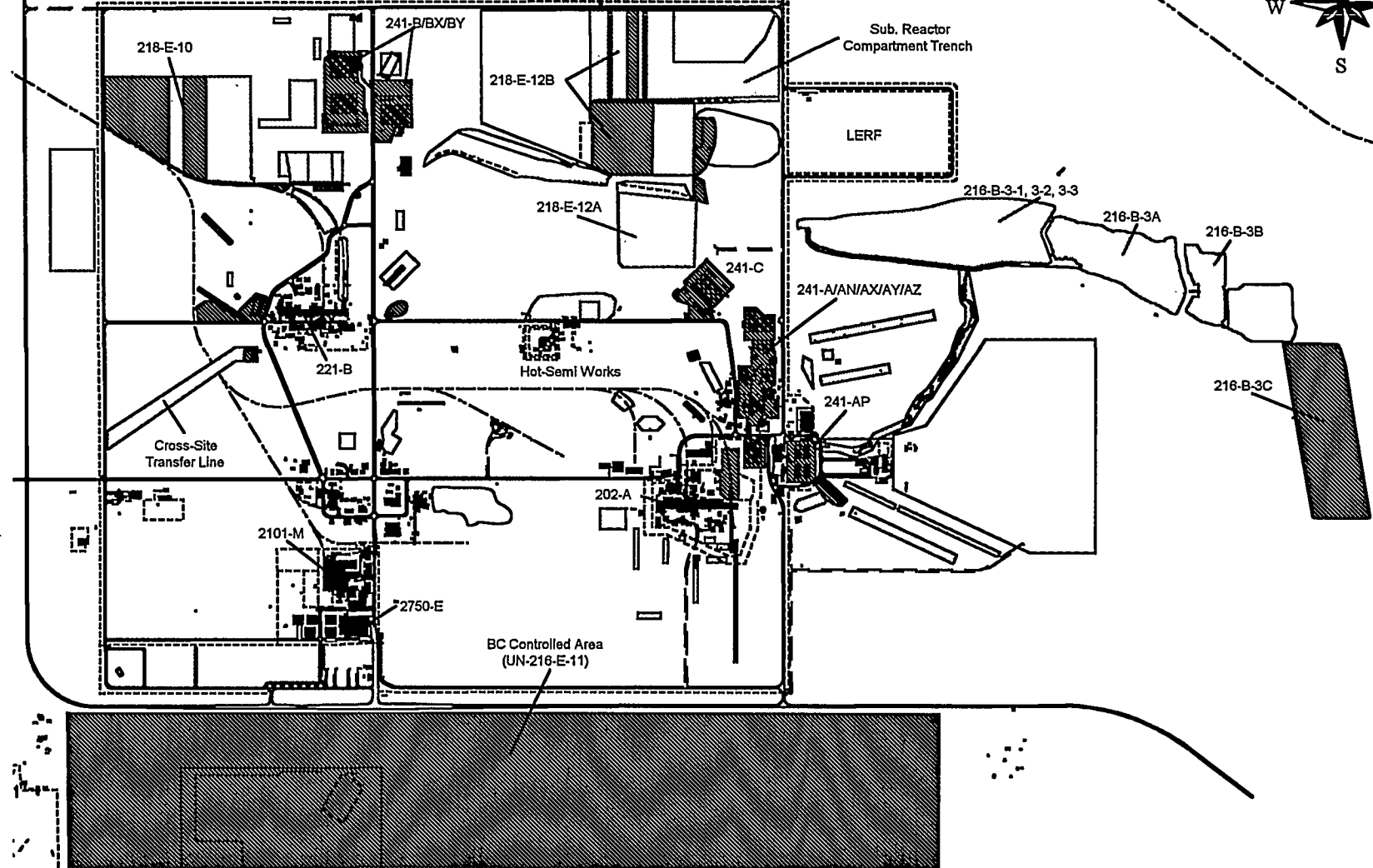


Figure 6



Surface Contamination Area  
Underground Radioactive Material



500 0 500 1000 Meters

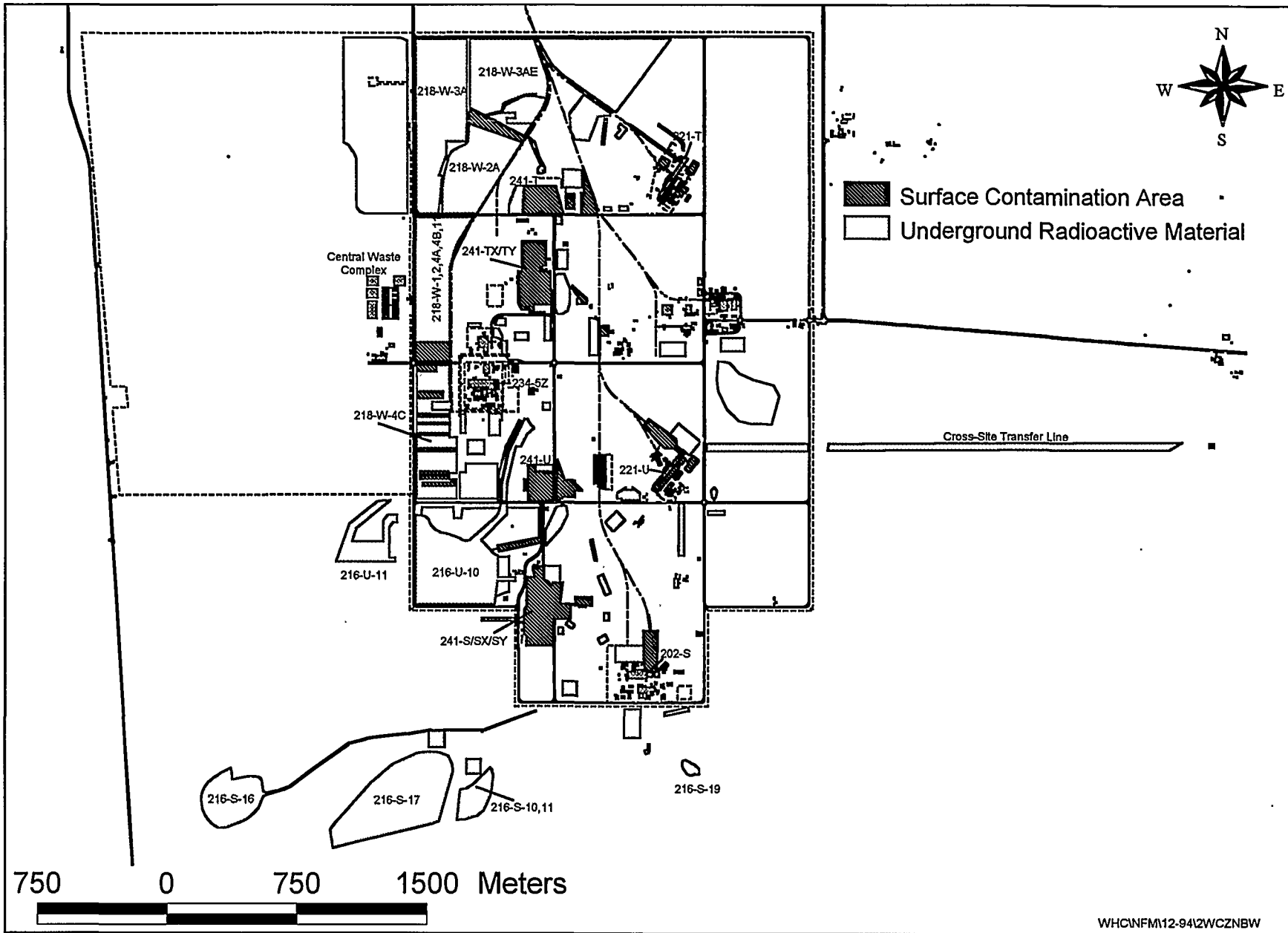
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Figure 7



Figure 8



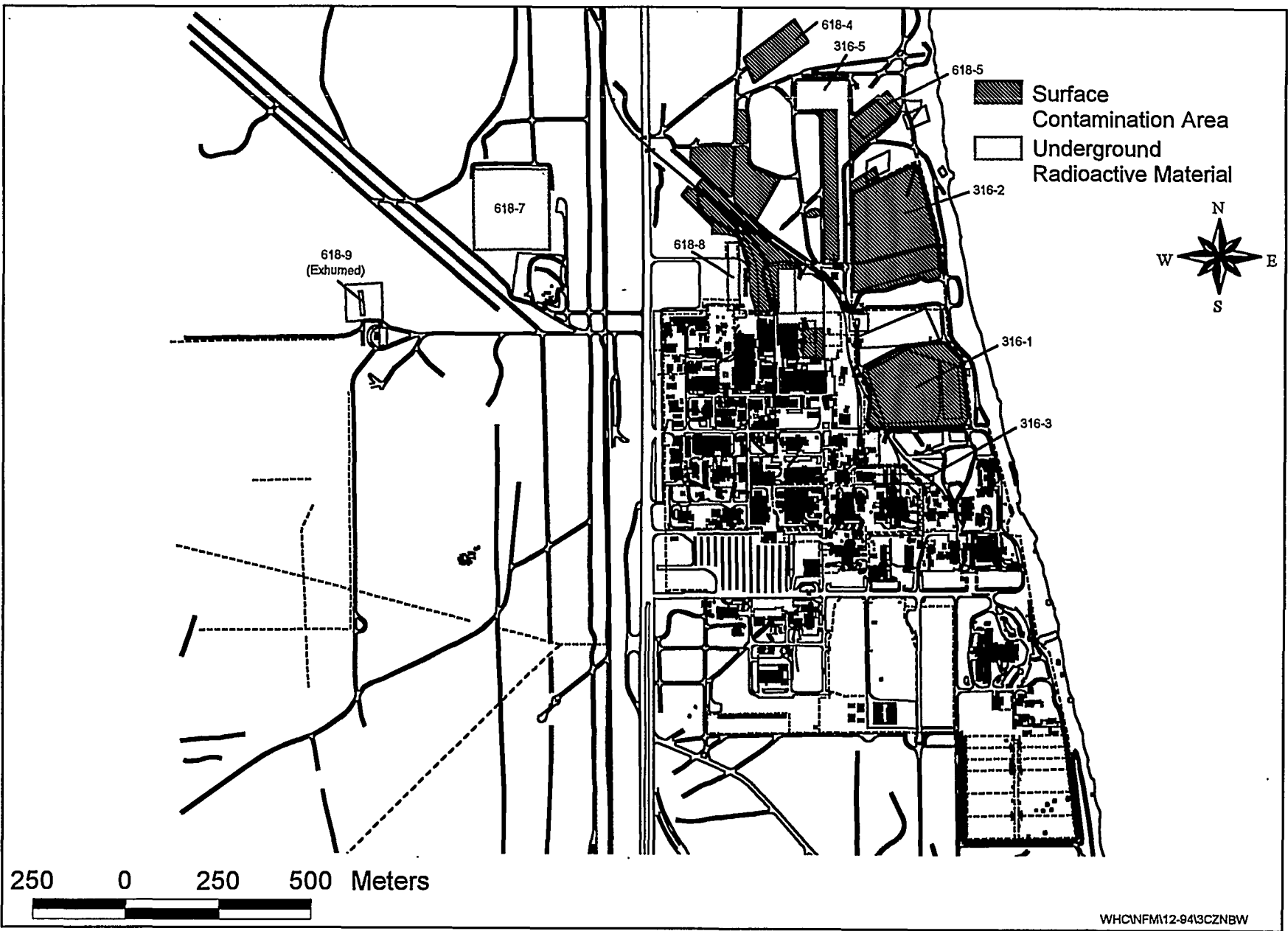
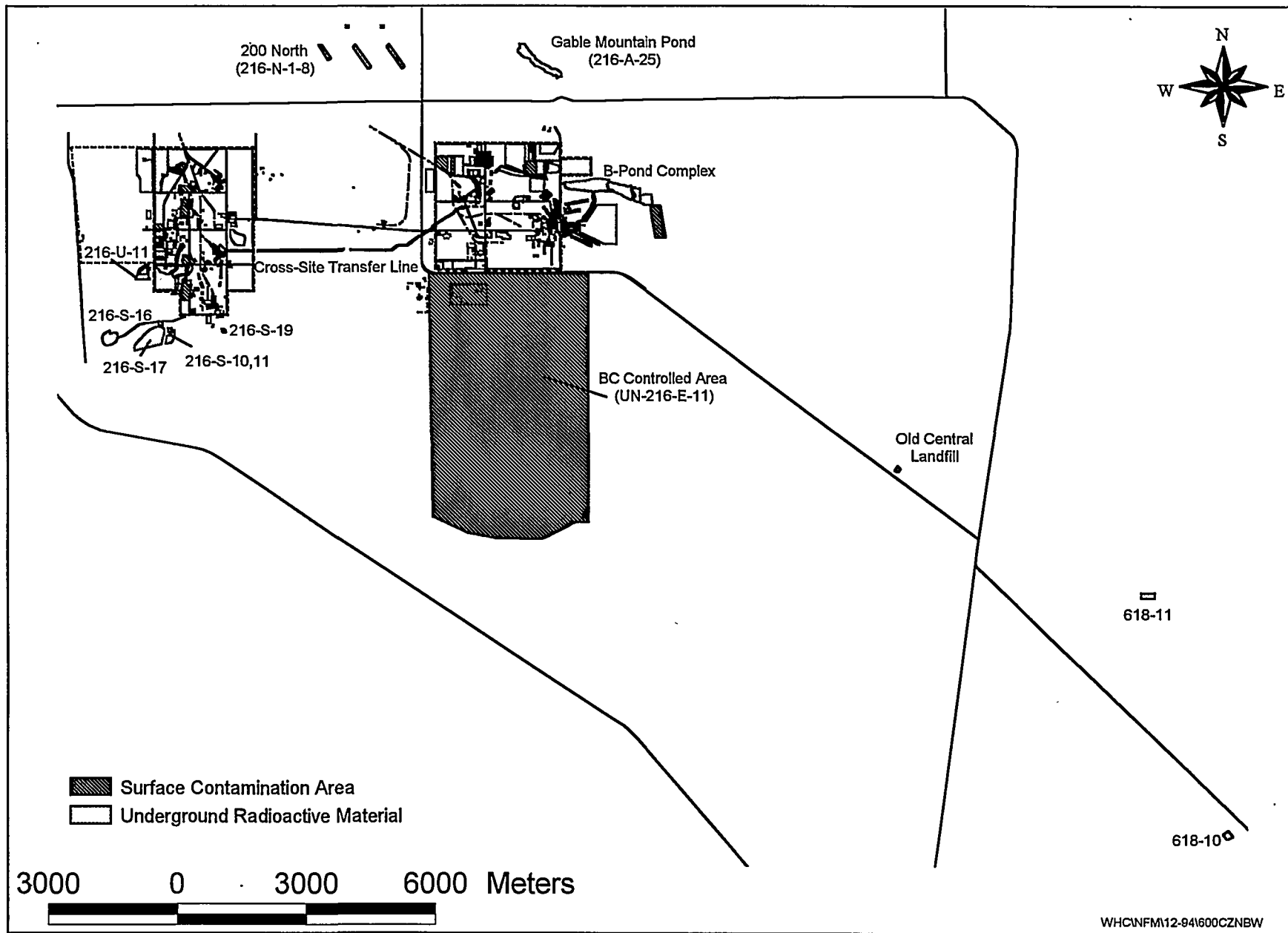


Figure 9

Figure 10  
11



WHC-SP-0665-16

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## 2.0 PROGRAM DESCRIPTION

### 2.1 ENVIRONMENTAL RADIOLOGICAL SURVEY PROGRAM OBJECTIVES

Environmental radiological surveys are performed to:

- Identify priorities for environmental cleanup or stabilization of surface contamination.
- Determine compliance with Department of Energy requirements and applicable policies and standards regarding operational control and environmental and radiological protection.
- Identify trends in radioactive contamination levels and radioactive migration at waste sites and other radiation areas.
- Assess the surface integrity of solid and liquid waste disposal sites.
- Monitor for unplanned releases of radioactivity to the operations area environment.

### 2.2 PRIORITY RANKING SYSTEM

A numerical ranking system is used for sorting open SCIRs and CARs relative to environmental radiological concerns. This system provides a priority guideline to responsible landlords for clean-up or stabilization of surface-contaminated areas.

A numerical value is assigned based on the level of contamination, site accessibility, and contamination mobility. Site histories are examined by reviewing past and present radiological surveys. Contamination levels from 1,000 counts per minute (cpm) to greater than 10 mrad/hr (as measured on Radiological Control's field survey instruments) are considered and assigned a numerical value of 1 (lowest value) to 5 (greatest value). Any removable alpha contamination will be considered a high priority and will receive a contamination value of 5. Location is evaluated for accessibility. A restricted area would receive the lowest point value of 1 progressing up to a value of 5 where the public could have access. Mobility refers to contamination that can be or has a history of being transported from where it was originally identified to places outside of the radiologically posted area. Fixed contamination would receive a value of 1 progressing to contamination that is blown by the wind or the result of biological uptake receiving a value of 5. The rankings (a maximum of 15 points is possible) are noted on Table 1.

It should be noted that this system is not intended to be a total risk assessment, but rather a way of communicating environmental significance to the landlords and their program offices. Other elements of the site clean-up process are considered such as costs, location, political emphasis and engineering strategies before a site is actually remediated.

### 2.3 ENVIRONMENTAL STANDARDS

Radiation survey data are used to determine compliance of Radioactive Waste Sites with WHC-CM-7-5, Environmental Compliance, Section 6.0 (Rev. 1) and BHI-EE-02, Environmental Requirements, Section 7.0 (Rev. 0), requirements.

Applicable requirements include the following:

1. Engineered barriers shall be provided, where applicable, over the disposal site to inhibit radionuclide transport to the surface.
2. Inactive waste site boundaries shall be accurately and permanently marked with Hanford plant standard (AC-5-40) approved concrete marker posts. Sites never used and those that are no longer contaminated do not require marker posts.
3. Facility effluent lines which are potential discharge points shall be isolated, capped, or sealed off to prevent accidental releases to inactive sites. This shall be verified and documented.
4. Active and inactive waste sites shall be inspected and surveyed at least annually.
5. One or more of the following actions shall be taken when contamination of any type is detected (either new or in excess of action limits) to prevent the migration or mobilization of the contamination:
  - \* Small-scale stabilization (<5 acres)
  - \* Vegetation removal
  - \* Radioactive hot-spot removal
  - \* Fencing
  - \* Posting
  - \* Herbicide spraying
  - \* Immediate spill response
  - \* Other corrective measures
6. Information regarding all suspect waste sites or newly identified waste sites shall be provided for documentation into the Waste Identification Data System (WIDS) database.
7. Inactive waste sites shall be maintained to control deep-rooted vegetation that could provide transport of contamination to the surface through plant uptake. The application of herbicides or pesticides may be required.

Near-Field Monitoring is responsible for:

1. Establishing radiological survey schedules of active and inactive radiological waste sites.
2. Conducting compliance assessments of active and inactive waste sites to determine compliance with the physical and radiological requirements.
3. Compiling and maintaining copies of historical records, including radiological survey reports, compliance assessment reports (CARs), surveillance/compliance inspection reports (SCIRs), and other information for each active and inactive radioactive waste site.
4. Trending radiological data, and issuing reports on the status of radiological surveys and compliance assessments for active and inactive radioactive waste sites.
5. Reviewing any proposed activity, other than routine inspections, that may impact or may be impacted by any active and inactive waste site.
6. Issuing a compliance assessment report or notifying the facility manager or area landlord, as appropriate, when violations of the requirements occur.

The above mentioned requirements apply to all active and inactive radioactive waste sites which include cribs, trenches, ditches, ponds, French drains, burial grounds and other areas of concern such as tank farm perimeters and radioactive contamination due to spills or releases. Interiors of tank farms and radiation areas where operations are ongoing are not included, because monitoring and tracking is done by Tank Waste Remediation System and other requirements are applicable to these areas.

In order to compare standards [as established in WHC-CM-7-5, Section 6.0] and field instrument values, a conversion factor is necessary. This conversion factor has been established where 20,000 disintegrations per minute (dpm) (2,000 cpm) are approximately equivalent to one millirem per hour for beta-emitting radionuclides. It must be understood that converting field instrument values, which include both beta and gamma energies, is approximate and does not allow for absolute precision.

## 2.4 COMPLIANCE ASSESSMENT REPORTS

When it is determined that conditions at a site are not in compliance with the standards established in WHC-CM-7-5, the appropriate area landlord is notified. If the noncompliance is not corrected as a result of Radiological Control's Radiation Problem Report (RPR) Near-Field Monitoring may issue a Compliance Assessment Report. Resolution of a CAR is considered initiated when a formal corrective action plan is provided to and accepted by Near-Field Monitoring. However, for tracking purposes it will remain on file and appear in subsequent Environmental Radiological Survey Reports until satisfactory completion of the plan is demonstrated. A visual inspection by Near-Field Monitoring and/or a post-corrective action radiation survey by Radiological Control is required before closing a CAR. If a compliance plan is not provided to Near-Field Monitoring within one month, a second notice is issued.

A CAR may be issued for conditions which pose a probable threat of radiological contamination to uncontrolled areas. These conditions include the presence of deep-rooted vegetation, animal intrusion, or obvious migrating contamination. Once the contamination is contained on or removed from a site for which a CAR has been issued, the report will be closed after a follow-up radiation survey has indicated that no further adverse environmental impact is evident.

## 2.5 SURVEY METHODS AND PROCEDURES

Surveys documented by this report include road/railroad surfaces, cribs, stabilized burial grounds, covered ponds and ditches, tank farm perimeters, active burial ground perimeters, unplanned release sites and other radiation areas. Methods and procedures for these surveys can be found in WHC-CM-7-4, Operational Environmental Monitoring; WHC-CM-1-6, WHC Radiation Control Manual; HSRCM-1, Hanford Site Radiological Control Manual; and WHC-IP-0718, Health Physics Procedures.

### 2.5.1 ROAD/RAILROAD SURVEYS

Road Surveys are performed with a Mobile Surface Contamination Monitor (MSCM) vehicle equipped with sodium iodide detectors or plastic scintillators. Railroad Surveys are conducted with a vehicle equipped with "high railers", which allows the vehicle to travel both on the roads or railroads, and sodium iodide detectors. The detector height is adjustable in all cases and the average survey height is one foot.

The vehicles are driven at less than five miles per hour. If activity above background is detected, the vehicle is stopped and a thorough survey is made with an Eberline Model BNW-1 portable survey instrument equipped with a pancake type probe to identify the extent of the contamination. Appropriate management is notified if road/railroad contamination is identified, and corrective actions are initiated.

## 2.5.2 WASTE SITES AND OTHER RADIATION AREA SURVEYS

Surveys at waste sites and other radiation areas may be conducted with vehicles equipped with radiation detection instruments or with hand-held field instruments. Field instrument survey results are reported in disintegrations per minute (using a conversion factor of 10 dpm/cpm) as detected by using a Geiger-Mueller detector for beta/gamma radiation equipped with a pancake type probe. Alpha survey results are reported in disintegrations per minute as measured with a portable alpha meter (PAM) or a portable alpha counter (PAC-6). Surveys include the perimeter and portions of the ground surface of radiation areas. Wherever possible, smear surveys are made on the surface of exposed equipment and other hard surfaces within a radiation area. Vegetation, animal burrows, and animal feces are also monitored to detect biological transport. Detailed survey practices and procedures are described in WHC-CM-7-4, Operational Environmental Monitoring; WHC-CM-1-6, WHC Radiation Control Manual; HSRCM-1, Hanford Site Radiological Control Manual; and WHC-IP-0718, Health Physics Procedures.



### 3.0 SURVEY RESULTS

All the routine environmental radiological surveys were completed during January, February, and March 1995, with the exception of the french drains within the Plutonium Finishing Plant (PFP) exclusion fence and the 600 area road surveys. The surveys of the french drains within the PFP exclusion will be performed during the second quarter by the PFP radiological control group and the 600 area road surveys will be completed once the survey equipment is repaired. Surveys of inactive waste disposal sites included cribs, trenches, burial grounds, covered ponds and covered ditches. The survey schedule for environmental sites is outlined in WHC-CM-7-4, Section 12, and in WHC-SP-0098-5, Rev. 0.

One Hundred and twenty six environmental radiological surveys were performed during the first quarter of 1995. Contamination above background levels was found at eleven of the surveyed active waste site areas and four of the inactive waste site areas. Contamination levels ranging from a low of 2,000 dpm to a high of 1,000,000 dpm were reported. Four of the contaminated surveys were found in SC areas and eleven were found in URM or unposted areas.

Nine of the eleven contaminated sites found in URM areas and two of the contaminated sites found in SC areas were immediately cleaned up and no further action was required. Radiation Problem Reports (RPR's) were issued and the remaining sites were turned over to the landlord for further action.

### 3.1 RADIOLOGICAL SURVEY SUMMARY

This report provides a synopsis of the radiological survey results conducted in January, February and March of 1995. The stabilization efforts for the 116-H-2 Crib, 216-S-9 Crib, 216-T-4 Pond, 216-T-4-1 Ditch, 216-U-14 Ditch between Cooper Ave and 16th Street, the cross-site corridor and vent station 241-EW-151 (UN-216-E-41), and the UN-216-W-24 and 30 sites were completed during this period. The recontaminated portions of the 216-U-1 and 216-U-2 Cribs and the 216-U-10 and 216-U-11 ponds were corrective action backfilled and down posted to URM.

The placement of sealant in the tank farms is on going.

The stabilization of the cross site corridor and the vent station, a major effort, was completed during this period. It has been one of the high priority contaminated sites since it was discovered in 1988. The large surface area and the amount of funding required for stabilization of the site has prevented earlier efforts. Revegetation is scheduled to begin in the fall of 1995.

**3.2 COMPLIANCE ASSESSMENT REPORTS ISSUED**

No CARs were issued during the first quarter of 1995.

**3.3 SURVEILLANCE/COMPLIANCE REPORTS CLOSED**

SCIRs closed during the first quarter of 1995 are as follows:

<u>SCIR</u>	<u>CUSTODIAN</u>	<u>SITE</u>
ESC-85-019	B-Plant	B-Plant Rail Road Spur
ECU-86-048	ERC	UN-216-W-30 Northeast of 241-S,SX,SY
9012EP200-095	TFO	UN-216-E-41 Cross-Site Transfer Line

**3.4 STATUS OF OPEN SURVEILLANCE AND COMPLIANCE REPORTS**

Eight SCIRs, from past activities, remained open at the end of the first quarter of 1995. These reports are summarized on Table 1 to include the referenced site number, priority ranking points (maximum of 15 points based on contamination levels, location and mobility), responsible custodian, SCIR report number, and estimated completion date.

Abbreviations used on Table 1 include:

- CAR - Compliance Assessment Report
- SCIR - Surveillance/Compliance Inspection Report
- ECD - Estimated Completion Date
- ERC - Environmental Restoration Contractor
- TFO - Tank Farm Operations
- PTS - Points
- TBD - To Be Determined

**TABLE 1  
OPEN SCIRs AND CARs  
(maximum 15 points)**

SCIR/CAR	SITE	DATE INITIATED	MONTHS OPEN	ECD	SITE RANKING	CUSTODIAN
ESC-85-019	UN-216-E-23, RR Spur No. of B-Plant	11/01/85		CLOSED		B-PLANT
ECU-86-048	UN-216-W-30 NE OF 241-S, SX, SY	10/01/86		CLOSED		ERC
8901EP200-001	UN-216-E-16 TC-4 RR SPUR	01/01/89	71	04/26/93*	8	PUREX
8909EP200-036	241-B FARM PERIMETERS	09/01/89	63	09/30/95	13	TFO
8910EP200-043	UN-216-E-5 241-B-154	10/01/89	62	09/30/95	10	TFO
9007EP200-056	BX-BY TANK FARM PERIMETERS	07/20/90	51	12/30/95	13	TFO
9008EP200-068	C-TANK FARM PERIMETERS	08/13/90	50	12/30/95	13	TFO
9012EP200-095	UN-216-E-41 X-SITE TRANSFER LINE	12/05/90		CLOSED		TFO
9110ERI-001	UN-216-E-36 216-B-64 BASIN	12/25/91	32	TBD*	12	B-PLANT
9203ERI-002	241-U TANK FARM PERIMETERS	03/17/92	29	09/30/95	8	TFO
9208ERI-006	241-S, SX, SY TANK FARM PERIMETERS	08/14/92	25	09/30/95	12	TFO

\* Corrective action is delinquent

#### 4.0 SUMMARY

All the routine outdoor radioactive surveys were completed during the first quarter of 1995 in the 100, 200-East/West, 300 and 600 areas with the exception of the french drains within the PFP exclusion fence and the 600 area road surveys.

No unsatisfactory CARs were issued (Section 3.2)

Three SCIRs were closed (Section 3.3)

Eight SCIRs remained open (Table 1). Open reports have been addressed and clean-up plans with completion dates are being developed or to be provided to Near-Field Monitoring. However, the corrective actions on two of the eight SCIRs that remain open are currently delinquent.

#### RADIOLOGICAL POSTING CHANGES

During the first quarter of 1995, 25.6 hectares (63.3 acres) were radiologically down posted from SC to URM or released from posting.

Radiological posting changes, by waste site, noted during the first quarter of 1995 are as follows:

The 116-H-2 Crib was stabilized and down posted from SC to URM, 0.04 hectares (0.1 acres).

The 216-S-9 Crib was stabilized and down posted from SC to URM, 0.28 hectares (0.7 acres).

The 216-T-4 Pond was stabilized and down posted from SC to URM, 6.5 hectares (16.0 acres).

The 216-T-4-1 Ditch was stabilized and down posted from SC to URM, 0.065 hectares (0.16 acres).

The recontaminated portions of the 216-U-1 and 2 Cribs, 216-U-10 and 11 ponds were corrective action backfilled and down posted from SC to URM.

The 216-U-14 Ditch between Cooper Ave and 16th Street was backfilled and stabilized and down posted from SC to URM, 1.13 hectares (2.8 acres).

The cross-site corridor and vent station 241-EW-151 (UN-216-E-41) were stabilized and down posted from SC to URM 11.83 hectares (29.24 acres).

The UN-216-W-24 and 30 sites were stabilized and down posted from SC to URM or released, 2.6 hectares (6.5 acres) and 4.1 hectares (7.75 acres) respectively.

(SC = Surface Contamination    URM = Underground Radioactive Material)

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