

6.0 RADIOLOGICAL SURVEYS

In 2002, there were approximately 3,643 ha (9,002 acres) of posted outdoor contamination areas and 665 ha (1,643 acres) of posted underground radioactive materials areas at the Hanford Site. Survey locations are illustrated in Figures 6-1 through 6-10. These areas were typically associated with cribs, trenches, burial grounds, tank farms, and covered ponds and ditches.

The posted contamination areas vary in number and size between years because of an ongoing effort to clean, stabilize, and remediate areas of known contamination. During this time, new areas of contamination are also being identified. Approximately 4 ha (10 acres) were reclassified from contamination/soil contamination areas to underground radioactive materials areas. During 2002, two small contaminated sites totaling less than 0.1 ha (0.25 acre) were added to the 200 West Area total and one small contaminated area site totaling less than 50 m² (500 ft²) were added to the 100-K Area total.

It was estimated that the external dose rate at 80% of the identified outdoor contamination areas was less than 1 mrem/hr, although direct dose rate readings from isolated radioactive specks (a diameter less than 0.6 cm [0.25 in.]) could have been considerably higher. Contamination levels of this magnitude did not significantly add to dose rates for the public or Hanford Site workers in 2002.

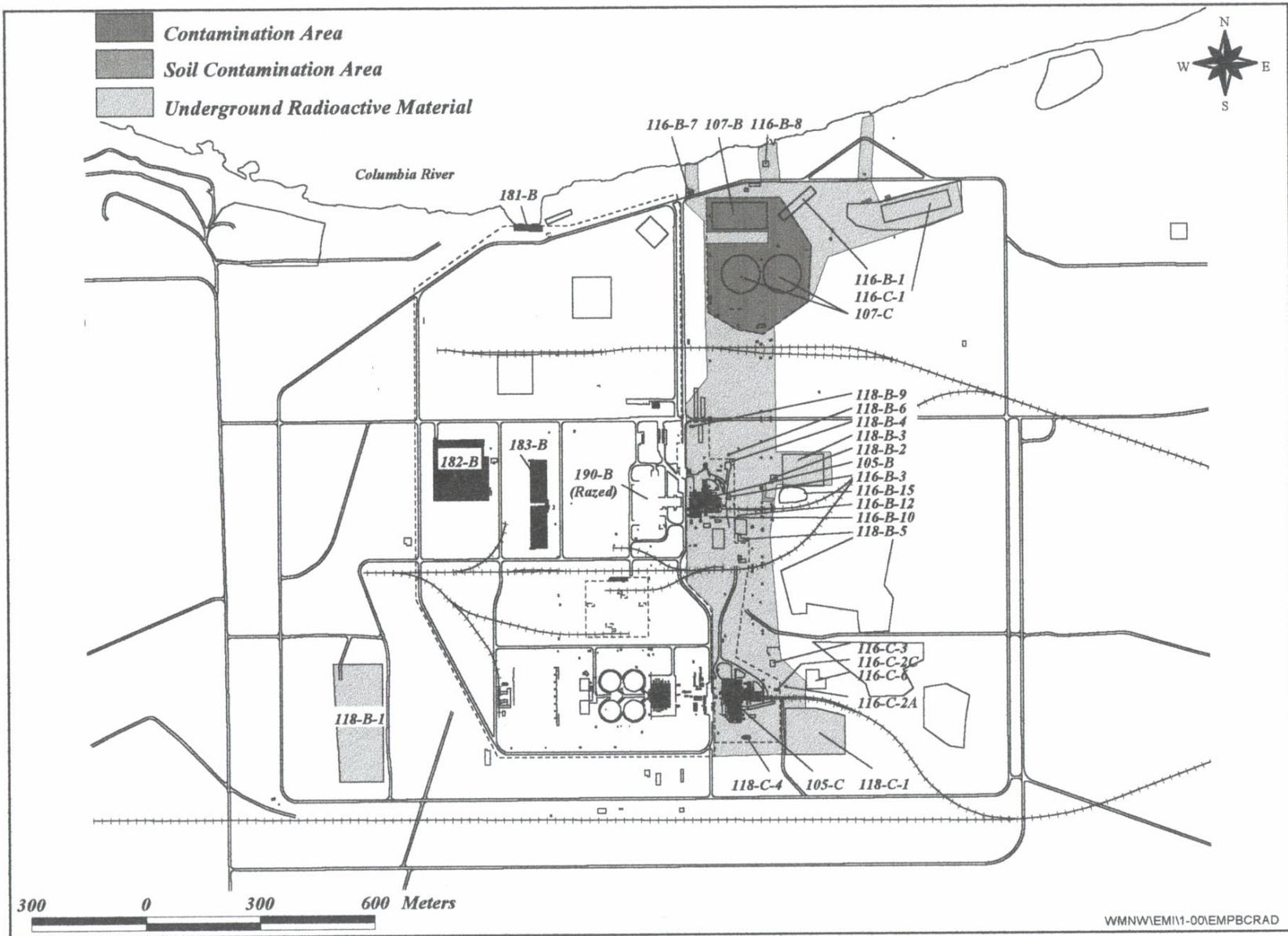


Figure 6-1. 2002 Radiological Survey Locations, 100-B/C Area.

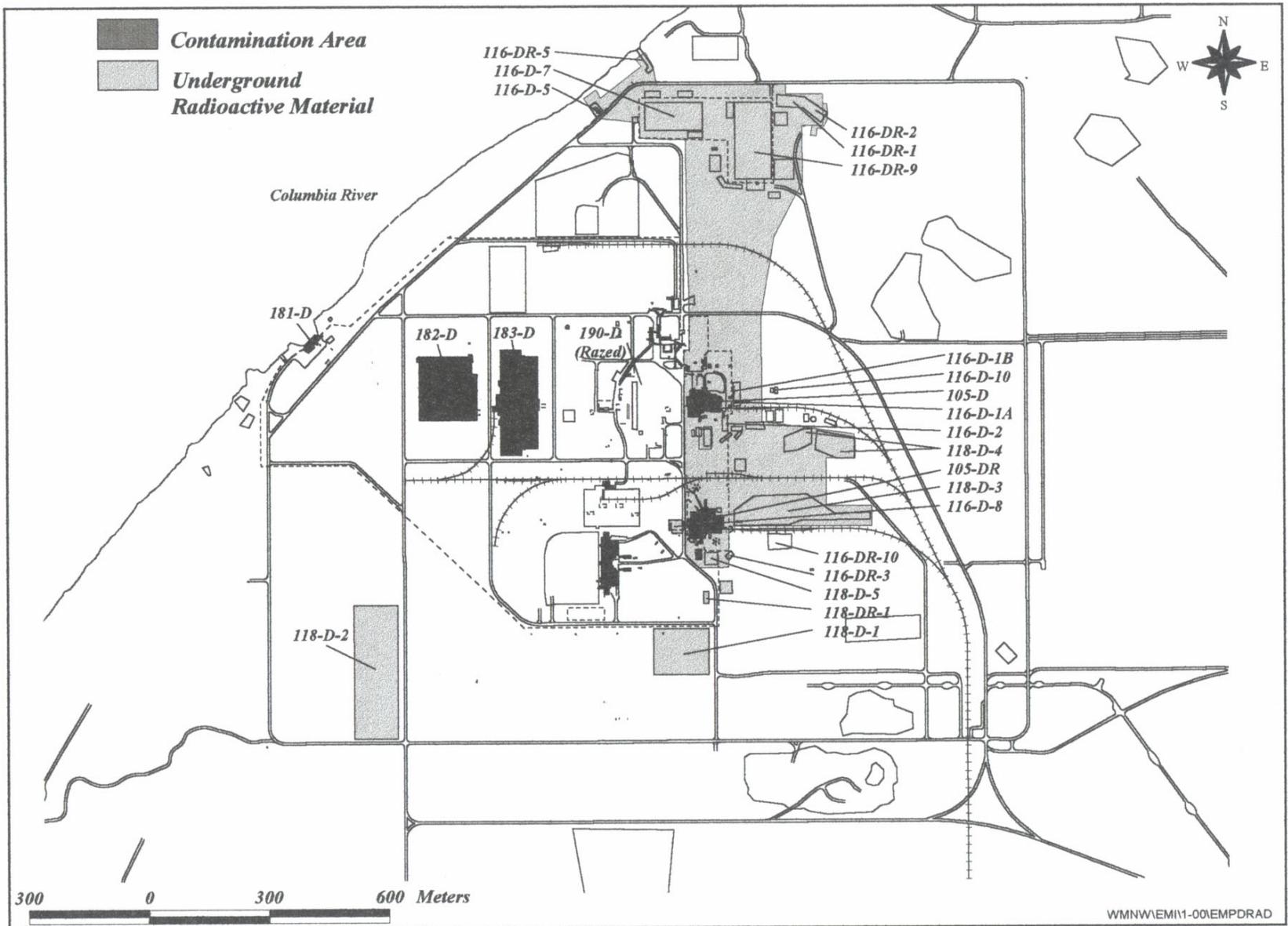


Figure 6-2. 2002 Radiological Survey Locations, 100-D/DR Area.

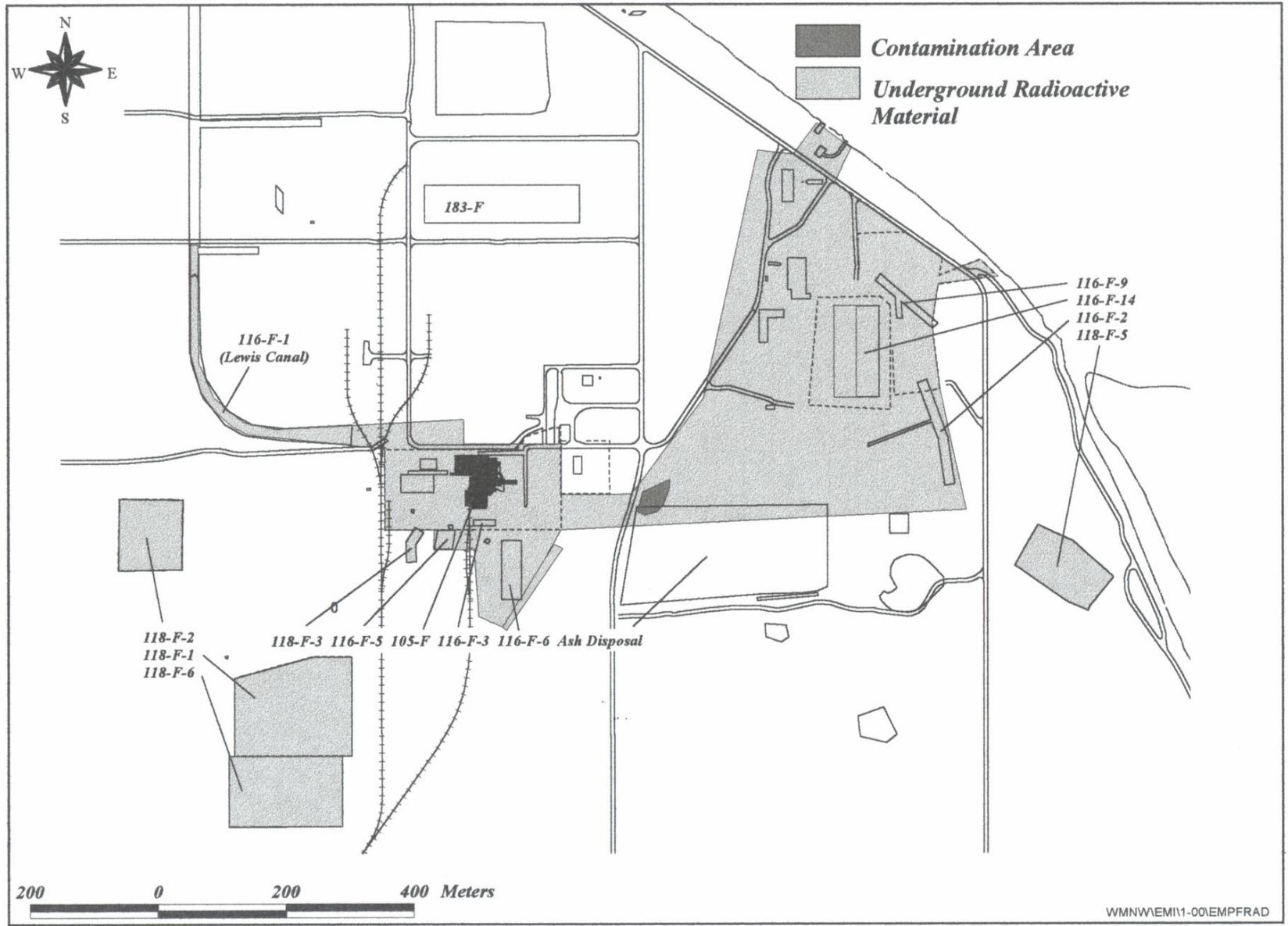


Figure 6-3. 2002 Radiological Survey Locations, 100-F Area.

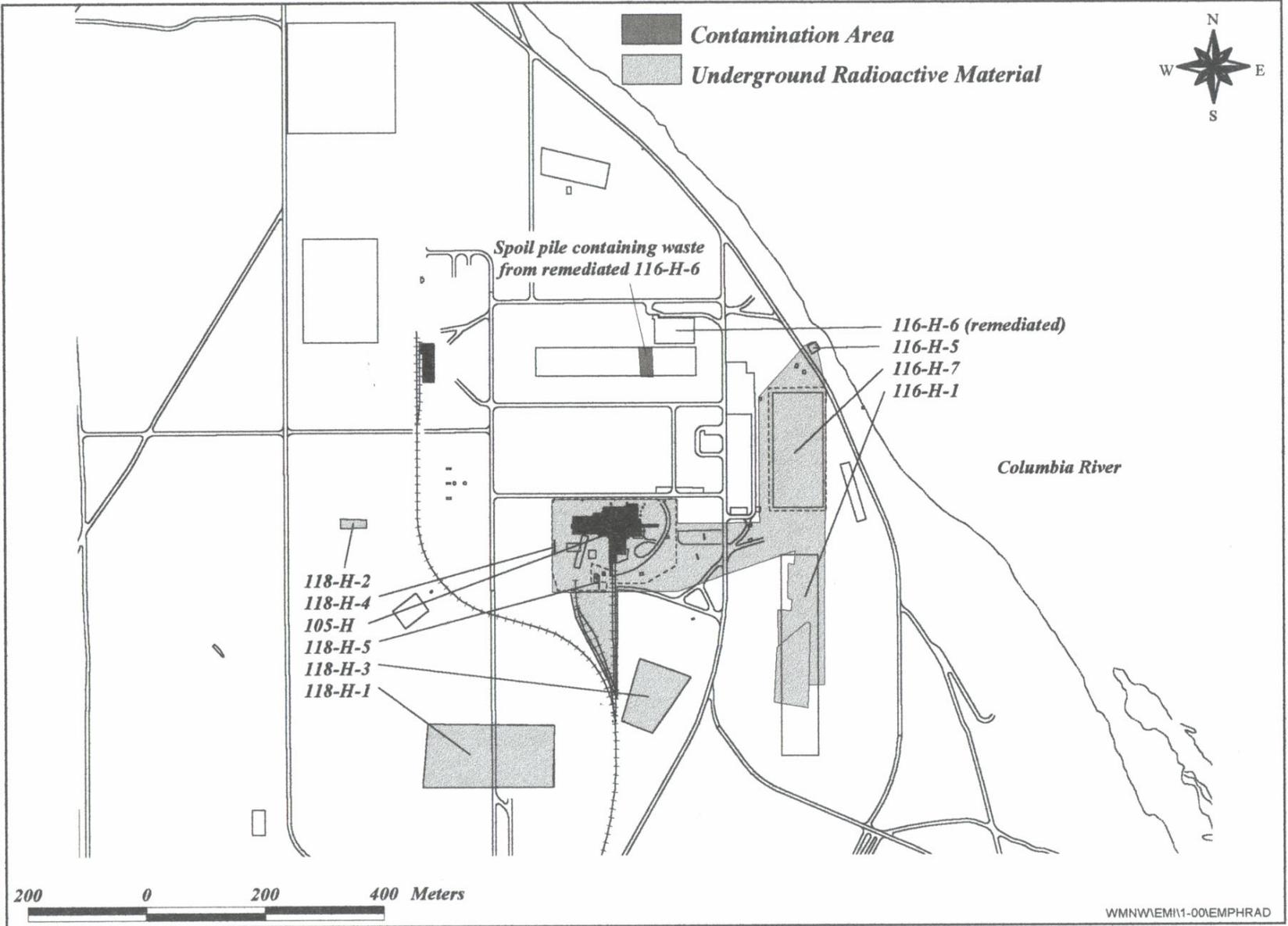


Figure 6-4. 2002 Radiological Survey Locations, 100-H Area.

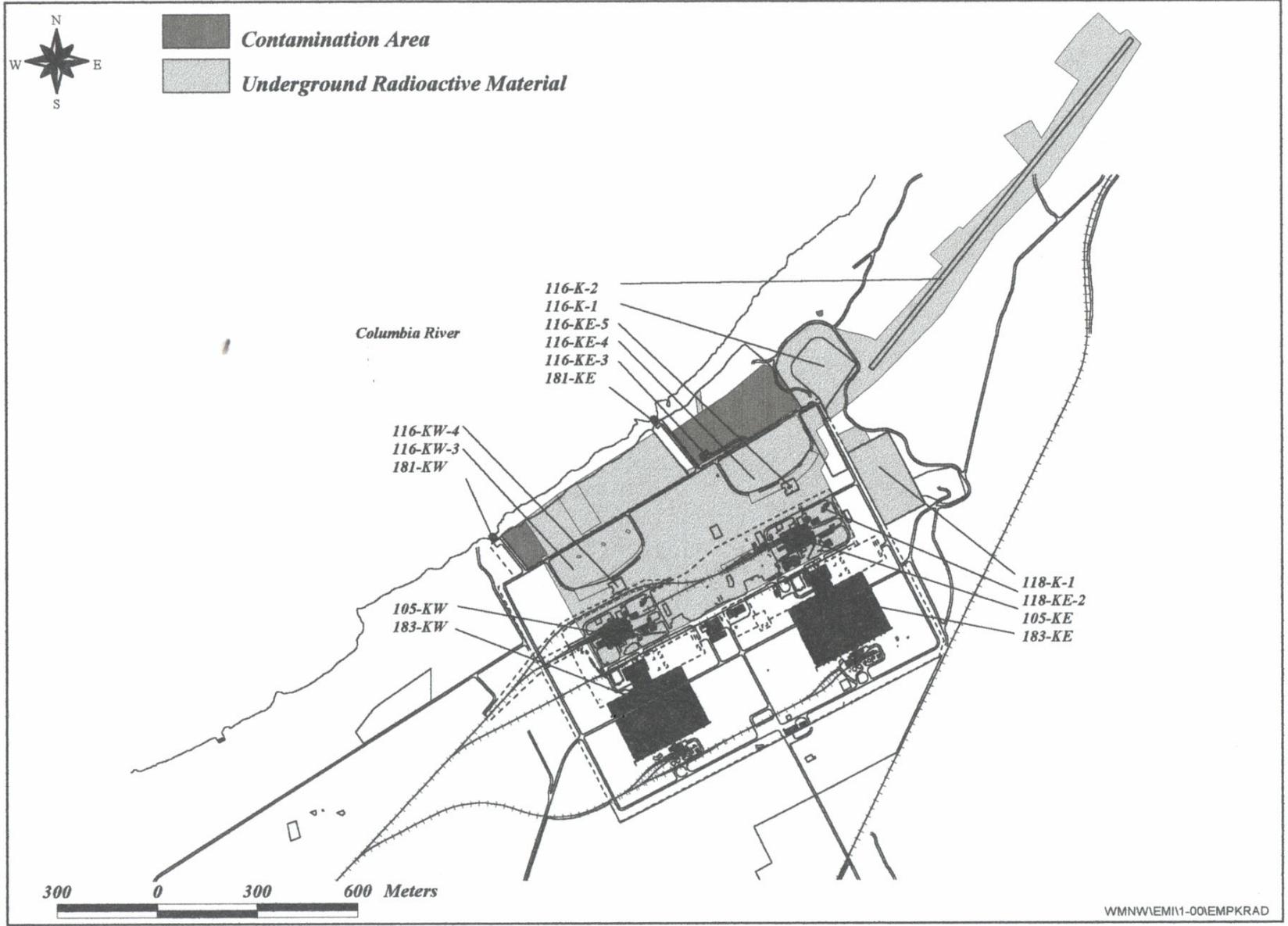


Figure 6-5. 2002 Radiological Survey Locations, 100-K Area.

WMNW1EM11-00EMPGRAD

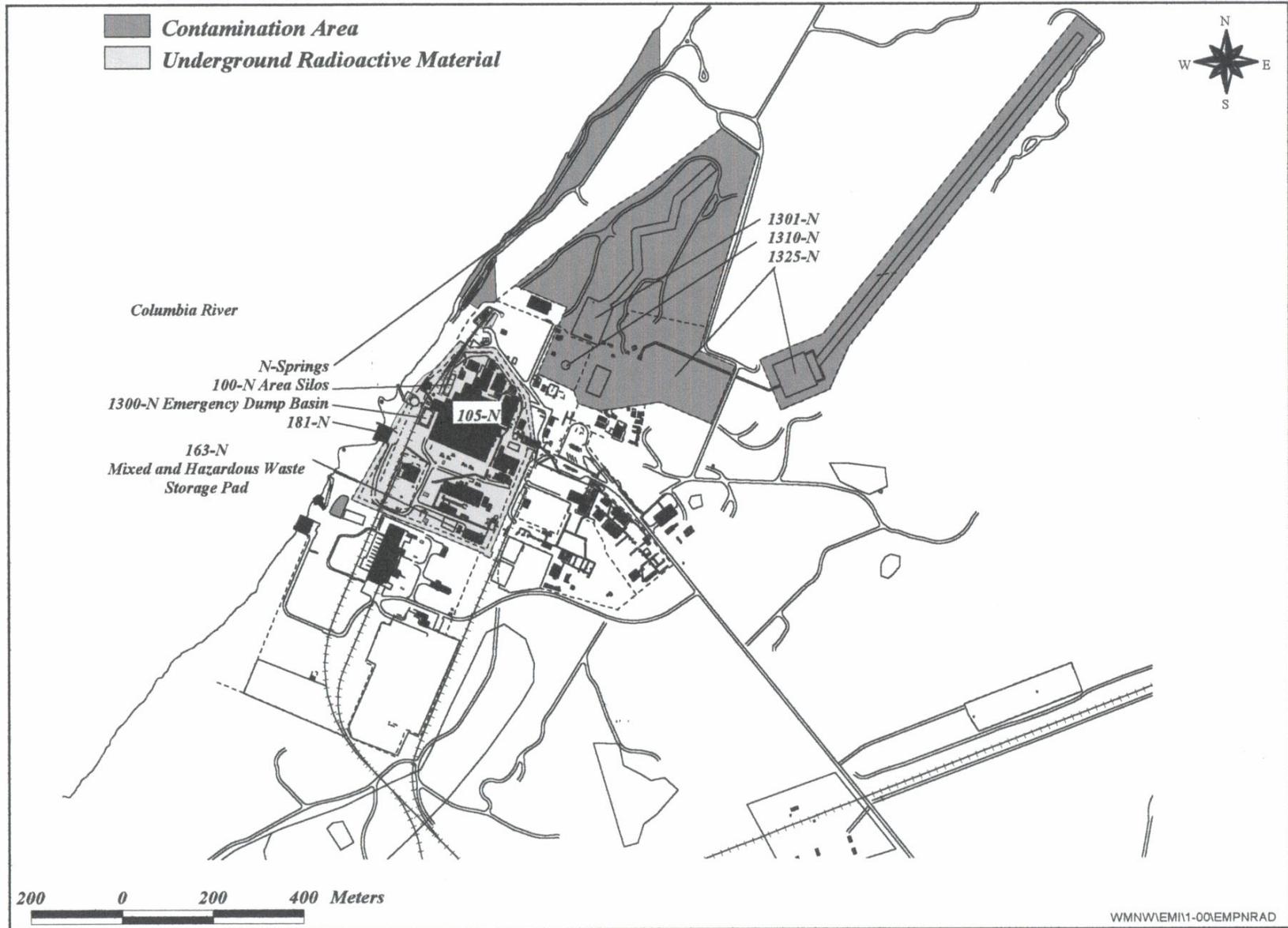


Figure 6-6. 2002 Radiological Survey Locations, 100-N Area.

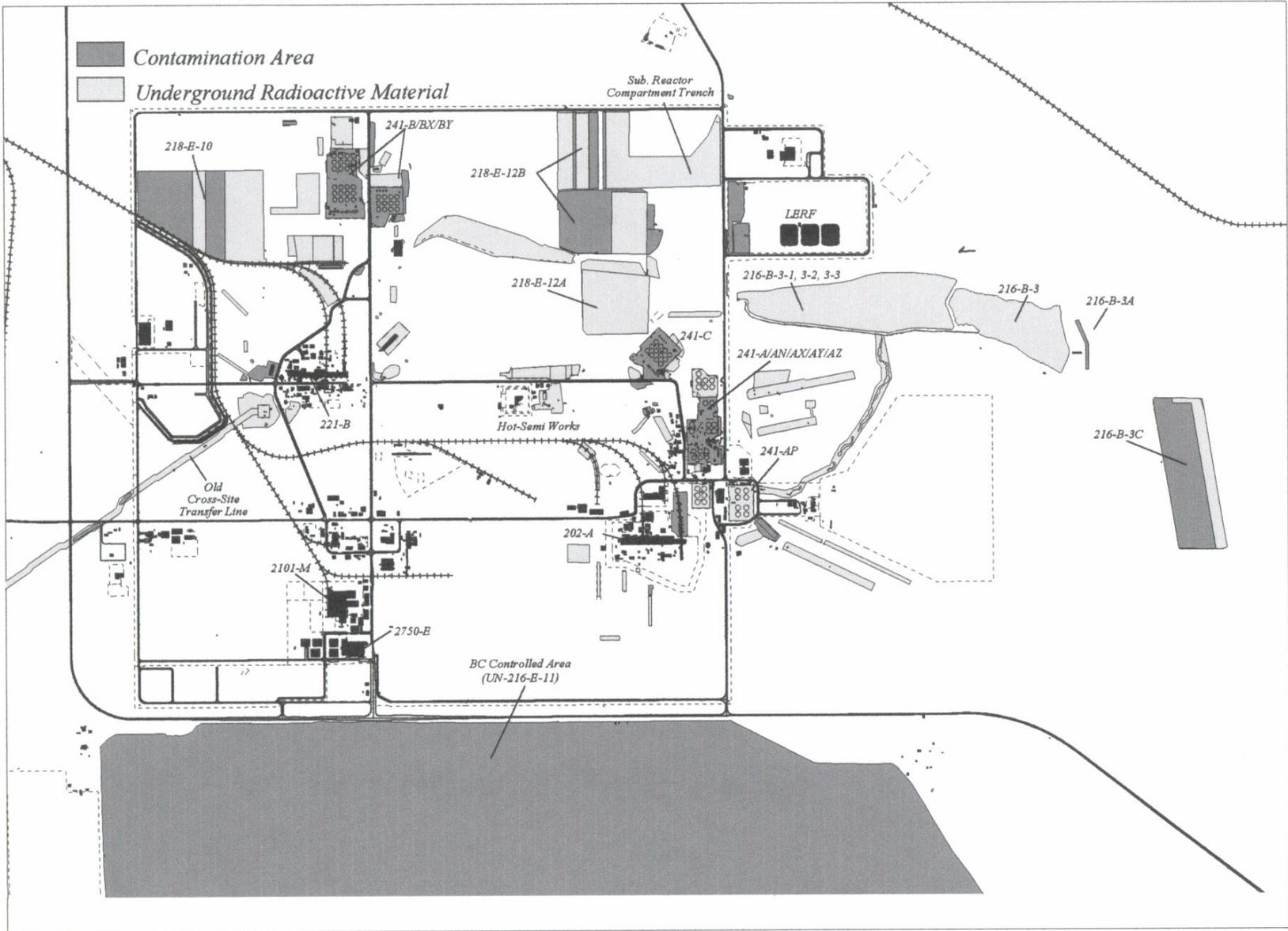


Figure 6-7. 2002 Radiological Survey Locations, 200 East Area.

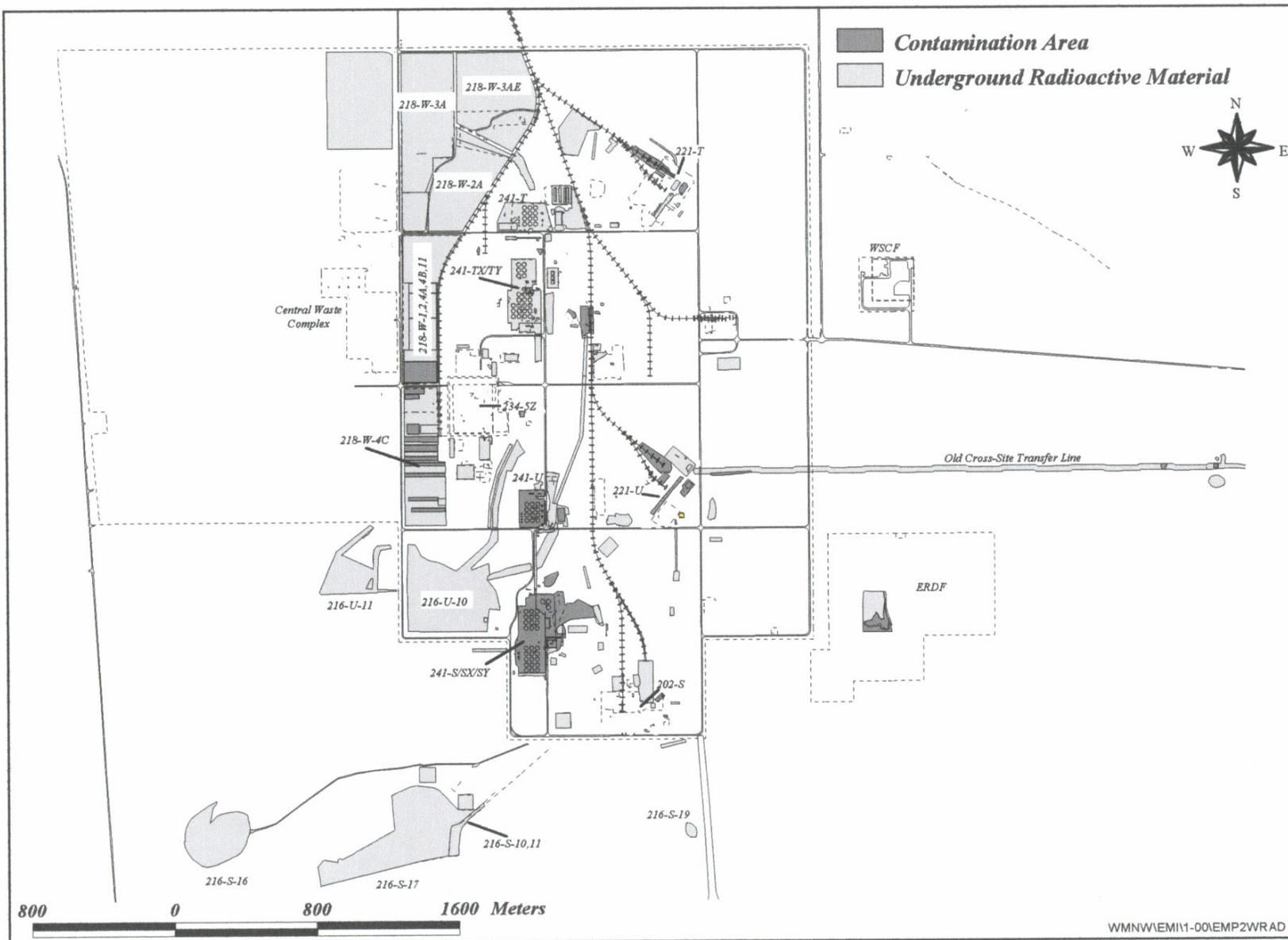


Figure 6-8. 2002 Radiological Survey Locations, 200 West Area.

WMNW1EM11-001EMP2WRAD

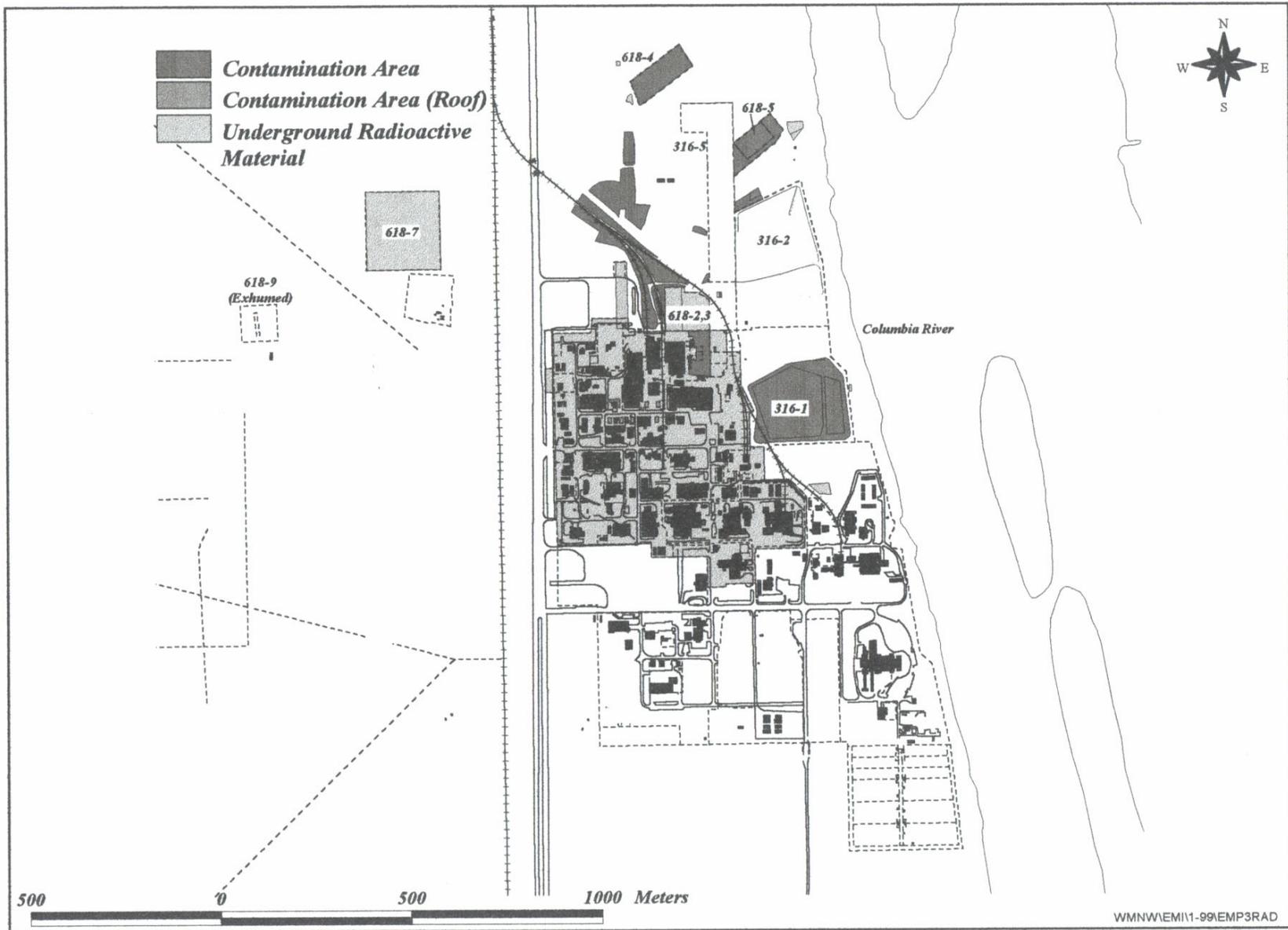


Figure 6-9. 2002 Radiological Survey Locations, 300 Area.

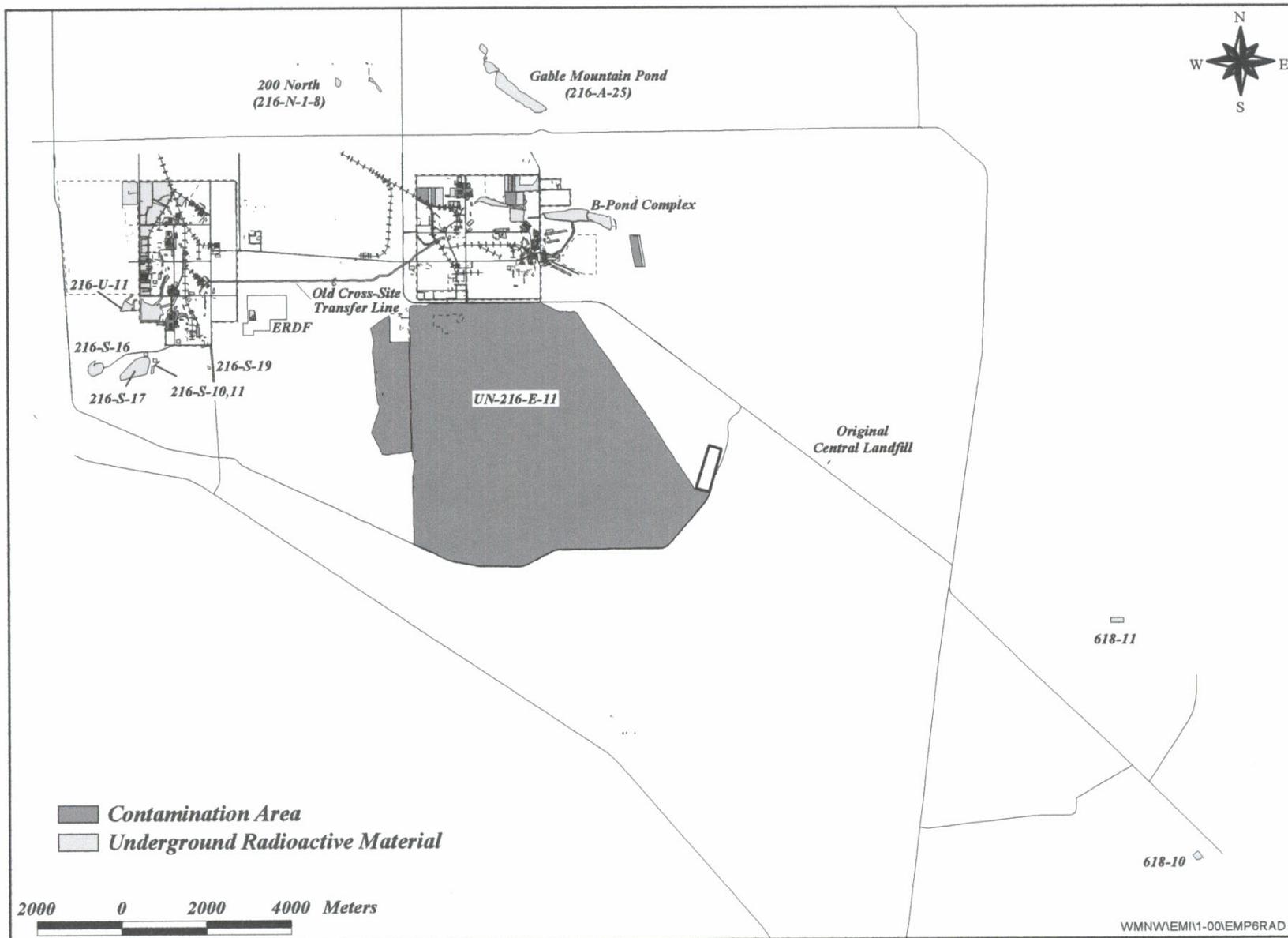


Figure 6-10. 2001 Radiological Survey Locations, 600 Area.

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