

LEGEND

-  Oak Ridge Reservation
-  Counties most influenced by the ORR
-  Additional influenced Counties
-  County Seat
-  National Park Boundary

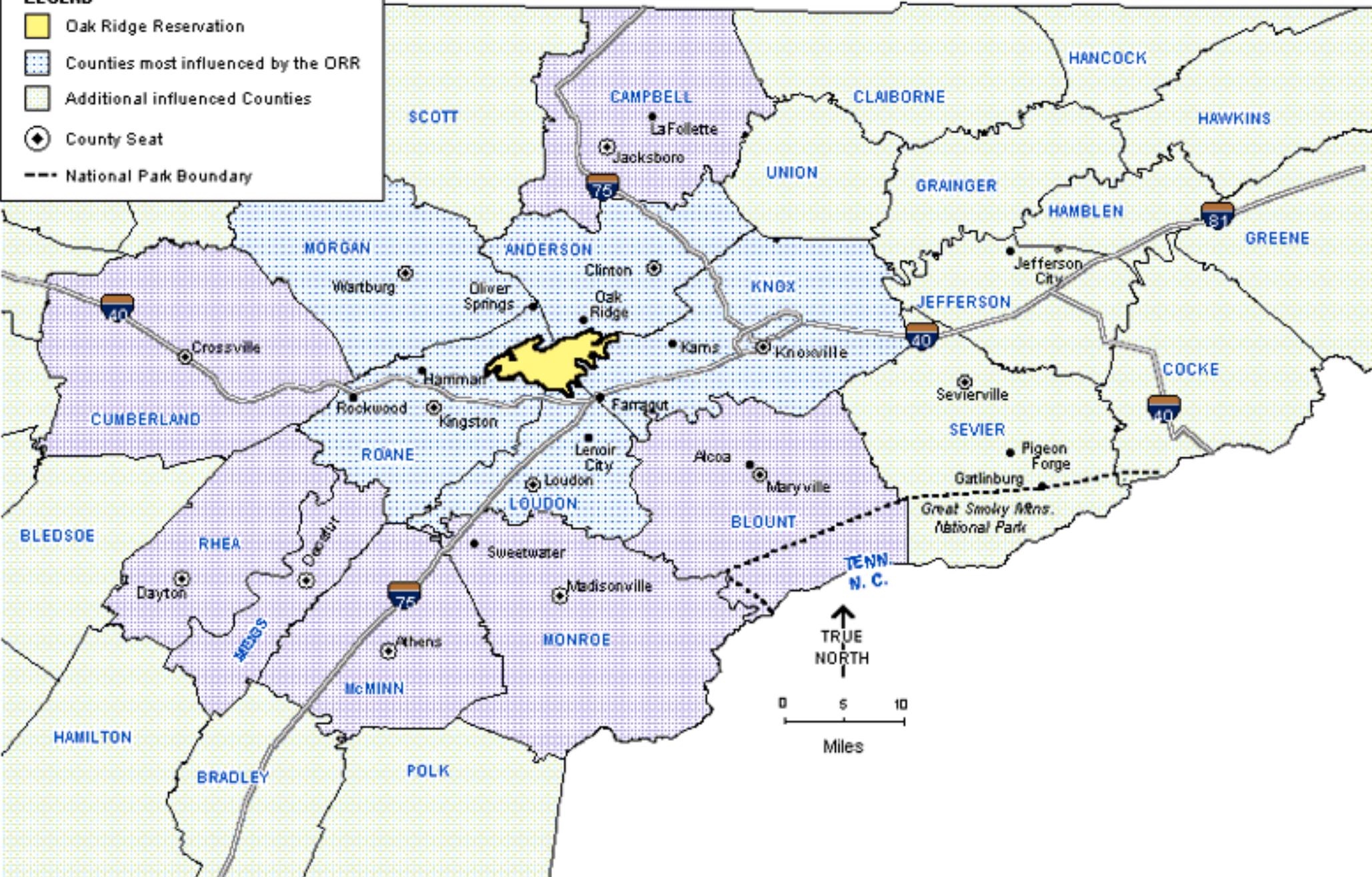
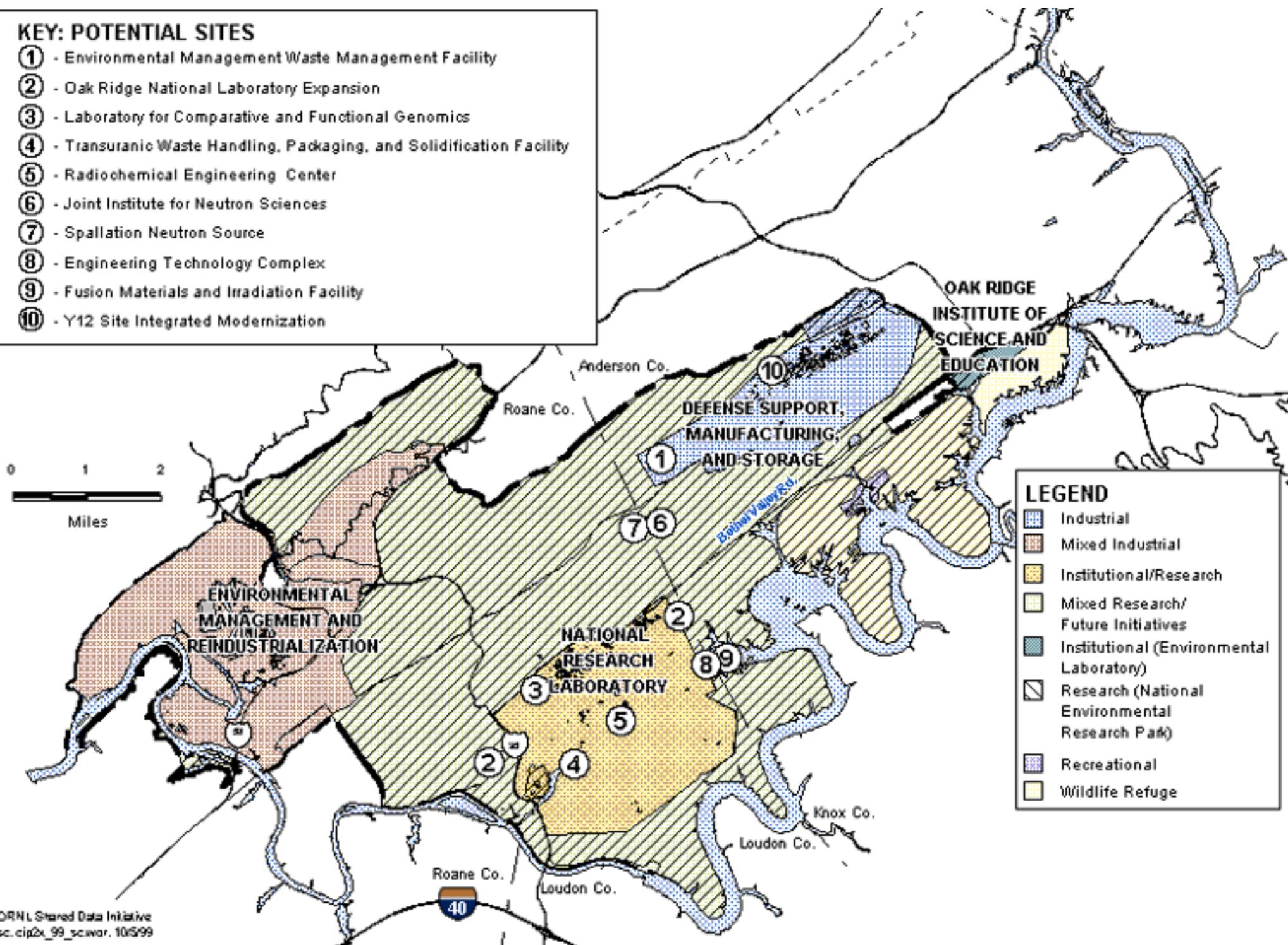


Figure 1. Location of the Oak Ridge Reservation and Surrounding Region

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KEY: POTENTIAL SITES

- ① - Environmental Management Waste Management Facility
- ② - Oak Ridge National Laboratory Expansion
- ③ - Laboratory for Comparative and Functional Genomics
- ④ - Transuranic Waste Handling, Packaging, and Solidification Facility
- ⑤ - Radiochemical Engineering Center
- ⑥ - Joint Institute for Neutron Sciences
- ⑦ - Spallation Neutron Source
- ⑧ - Engineering Technology Complex
- ⑨ - Fusion Materials and Irradiation Facility
- ⑩ - Y12 Site Integrated Modernization



LEGEND

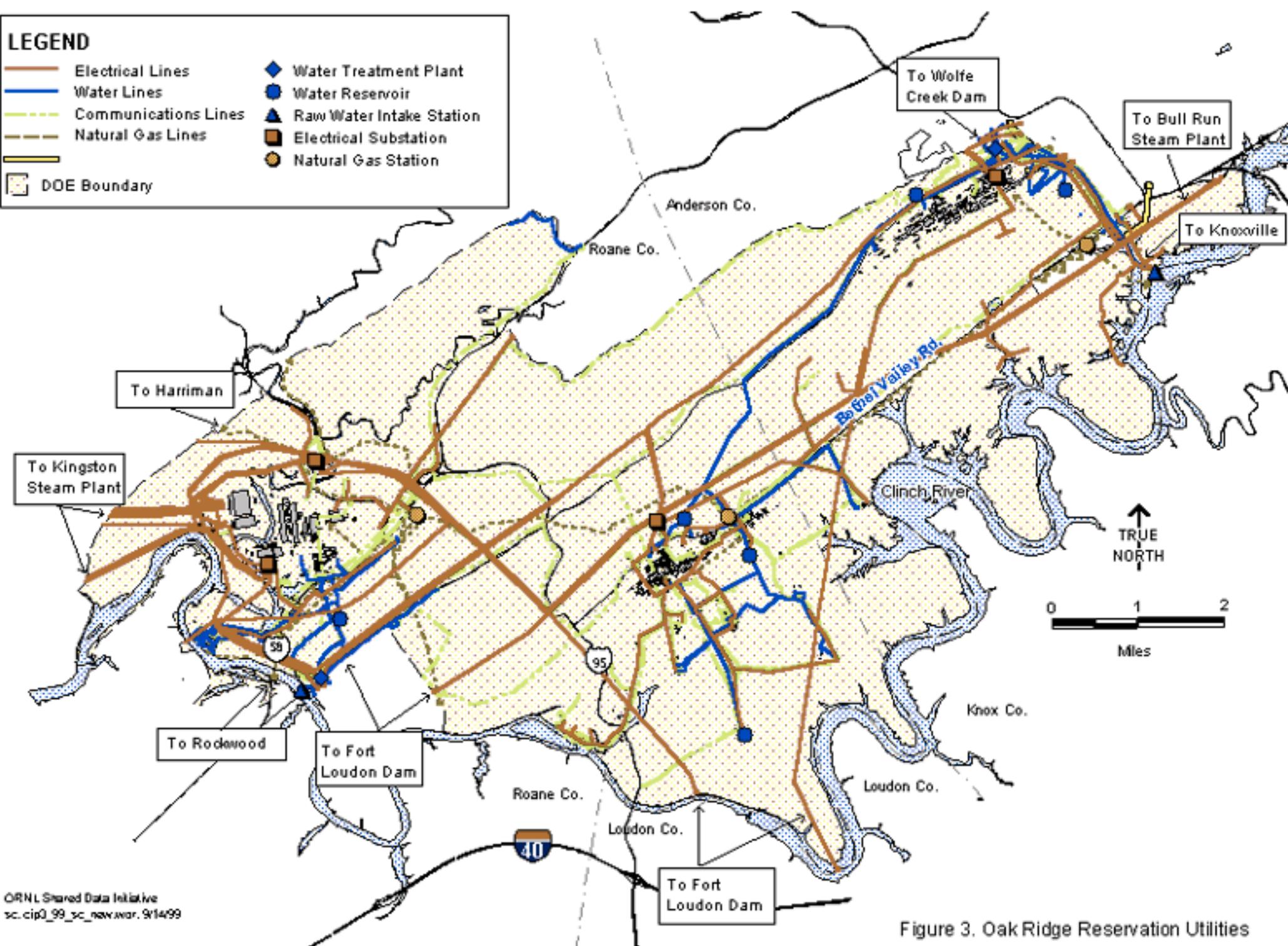
- Industrial
- Mixed Industrial
- Institutional/Research
- Mixed Research/Future Initiatives
- Institutional (Environmental Laboratory)
- Research (National Environmental Research Park)
- Recreational
- Wildlife Refuge

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Figure 2. Current and Potential Future Land Uses on the Oak Ridge Reservation

LEGEND

- Electrical Lines
- Water Lines
- Communications Lines
- Natural Gas Lines
- DOE Boundary
- Water Treatment Plant
- Water Reservoir
- Raw Water Intake Station
- Electrical Substation
- Natural Gas Station



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Figure 3. Oak Ridge Reservation Utilities

LEGEND

-  Upper East Fork Poplar Creek Watershed
-  Bear Creek Valley Watershed
-  East Tennessee Technology Park Watershed
-  Bethel Valley Watershed
-  Melton Valley Watershed
-  Potential Release Sites
-  DOE Boundary

Note: Designated Watershed boundaries are for remediation planning purposes only.

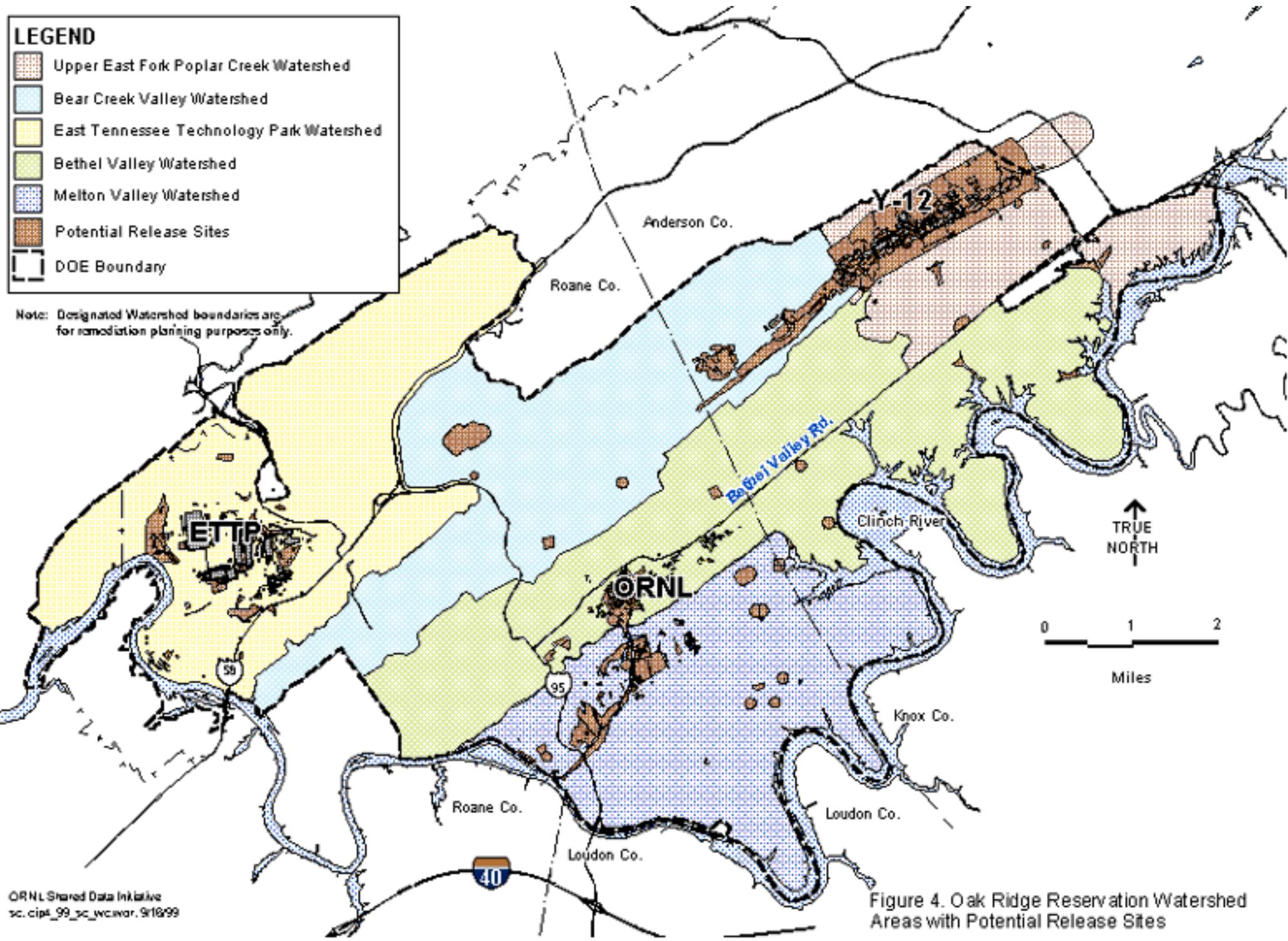


Figure 4. Oak Ridge Reservation Watershed Areas with Potential Release Sites

Land Use Approval Process for the ORR

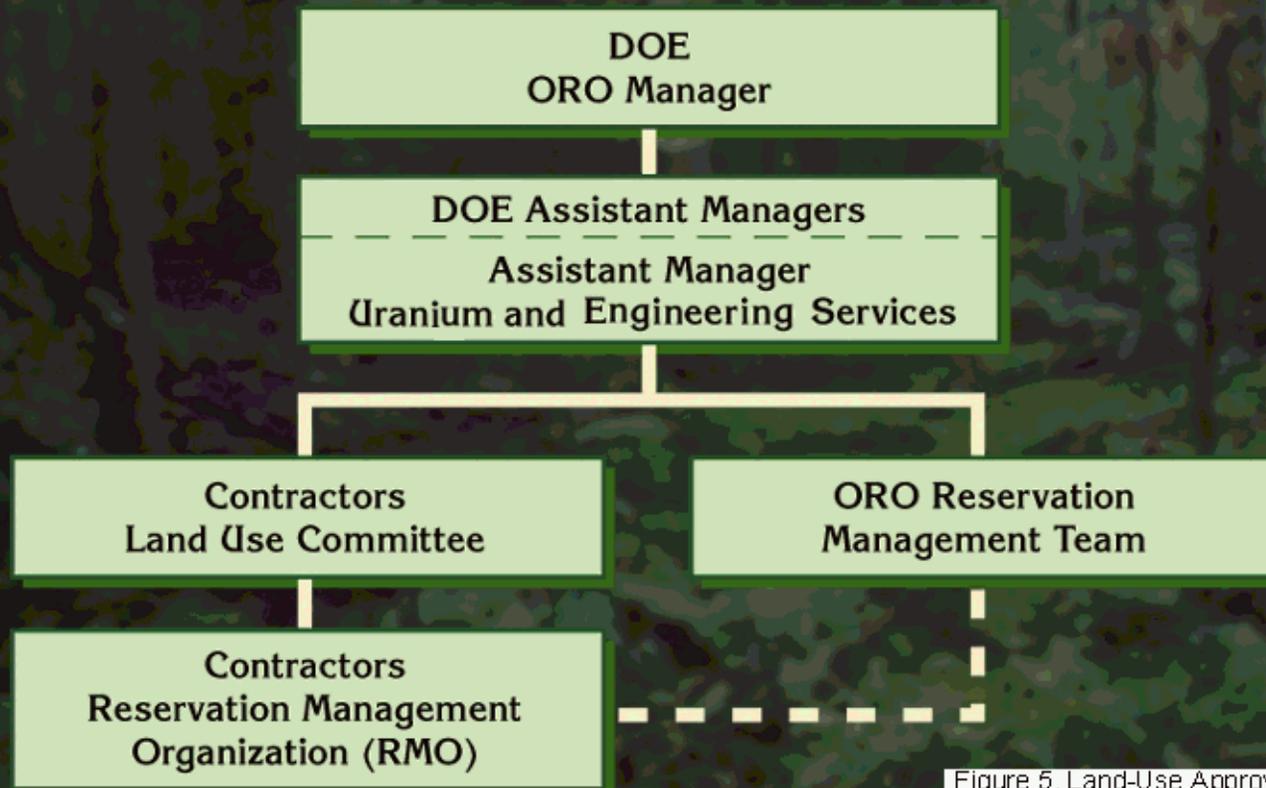


Figure 5. Land-Use Approval Process for the Oak Ridge Reservation.

Figure 6. Geographics Areas of Responsibility on the Oak Ridge Reservation

LEGEND

GEOGRAPHIC AREAS OF RESPONSIBILITY WITHIN THE U.S. DOE OAK RIDGE RESERVATION

-  Defense Program (approximately 5,428 acres)
-  Office of Science (approximately 18,076 acres)
-  Environmental Management (approximately 5,942 acres, including ED-1)
-  Community Reuse Organization of East Tennessee
 -  ED-1 (approximately 950 acres)
 -  ED-2
 -  BioNeutrics, Inc.

OTHER AREAS OF RESPONSIBILITY WITHIN AND OUTSIDE THE U.S. DOE OAK RIDGE RESERVATION

- | | | |
|---|---|--|
| <ul style="list-style-type: none">  DOE (approximately 1,593 acres) <ul style="list-style-type: none">  George Jones Memorial Church  Turnpike Checking Station (Gatehouse)  Chestnut Ridge Telecommunications Site  55 Jefferson  Midway Checking Station (Scarboro Gatehouse)  Bethel Valley Road Checking Station (Gatehouse; south side of road only)  2714H, 2714J  Federal Office Building  1916T-2  1916T-1 (OSTI) | <ul style="list-style-type: none">  ORAU (approximately 247 acres) <ul style="list-style-type: none">  ATDD-NOAA  Medical Research Facility  2714F, 2714G, 2715  ORISE Scarboro Operations Site  TSD (DOE Albuquerque Operations Office) <ul style="list-style-type: none">  Maintenance Facility  Firing Range  Office and Storage Facility  TWRA (approximately 3,000 acres) <ul style="list-style-type: none">  Three Bend Scenic and Wildlife Refuge Area | <ul style="list-style-type: none">  ORNL <ul style="list-style-type: none">  American Museum of Science and Energy  ETMC (approximately 227 acres) <ul style="list-style-type: none">  Water Treatment Plant  Water Intake Station  Defense Program (approximately 5,428 acres) <ul style="list-style-type: none">  Central Training Facility  Clark Center Park  National Environmental Research Park |
|---|---|--|

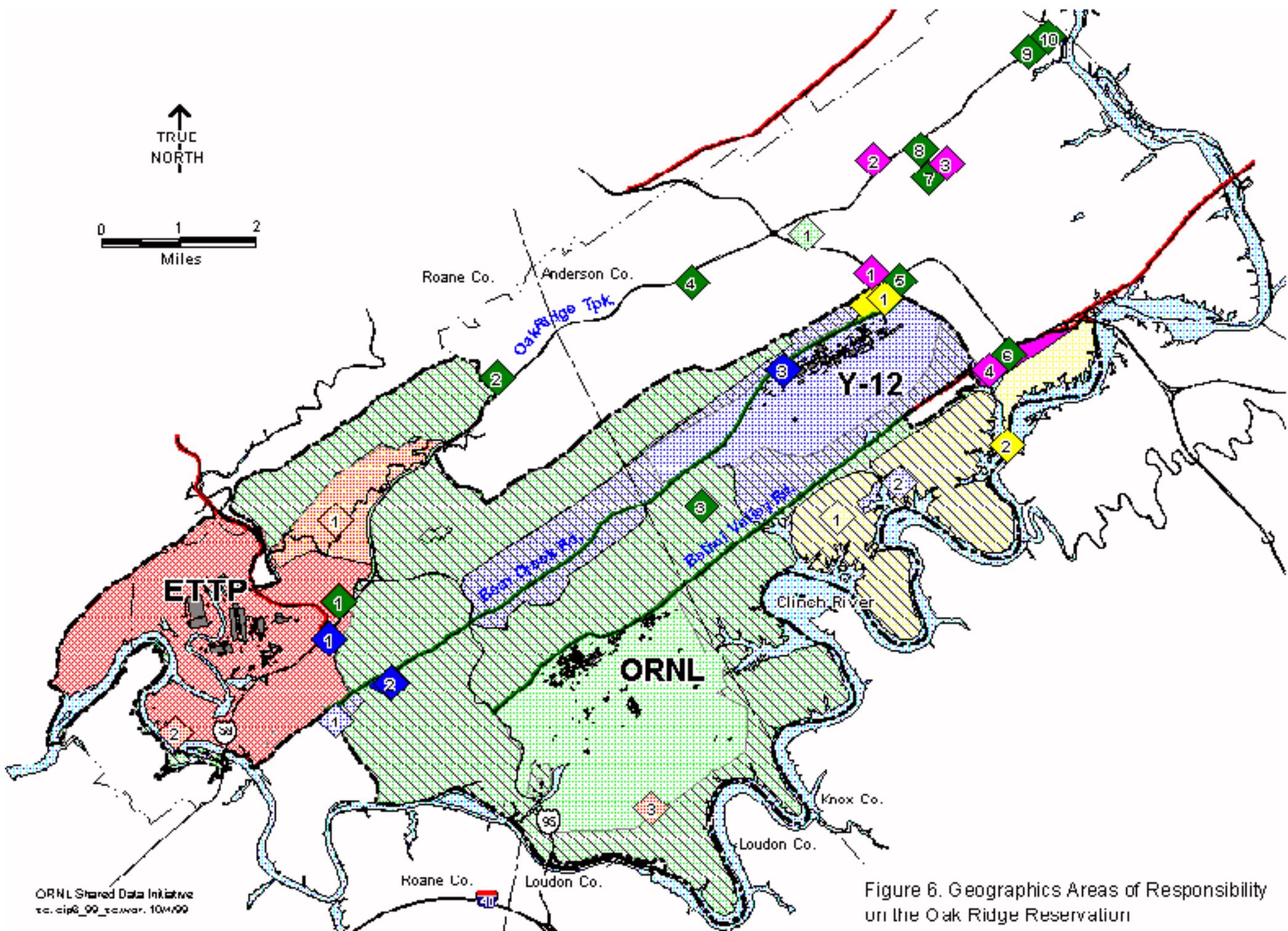


Figure 6. Geographics Areas of Responsibility on the Oak Ridge Reservation

- ACTIVE FACILITIES**
- Administration and Support
 - Advanced Materials Synthesis, Characterization and Processing
 - Biological and Environmental Sciences and Technology
 - Computational Science and Advanced Computing
 - Energy Production and End-Use Technologies
 - Instrumentation and Measurement Science
 - Multi-Program Use
 - Neutron-Based Science and Technology
 - Waste Operations
- SURPLUS FACILITIES**
- Currently in EM D&D Program
 - Currently in Surplus Program (not EM)
 - Projected for Surplus by 2005 (not EM)

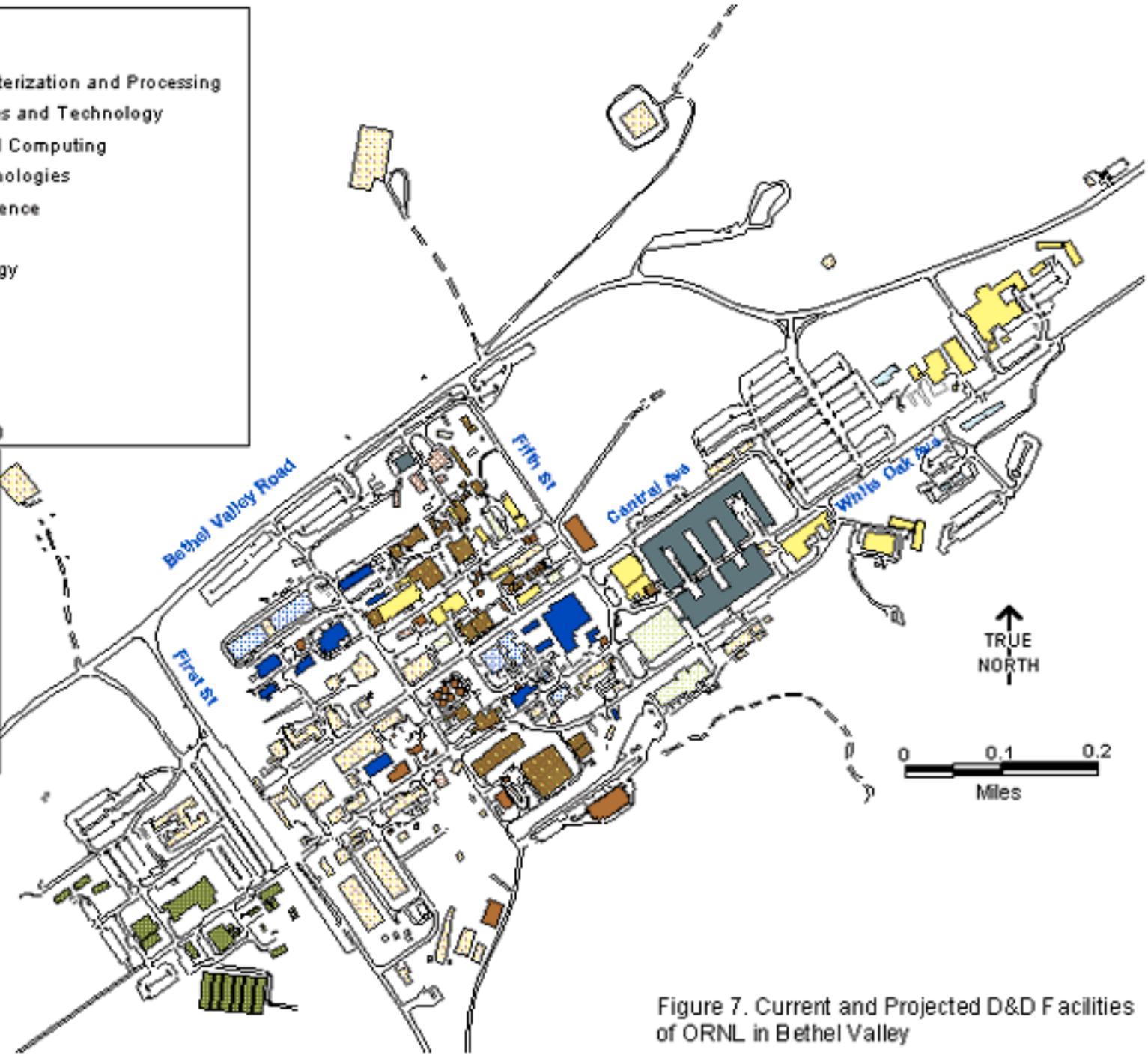


Figure 7. Current and Projected D&D Facilities of ORNL in Bethel Valley

ACTIVE FACILITIES

-  Administration and Support
-  Neutron-Based Science and Technology
-  Computational Science and Advanced Computing
-  Waste Operations
-  EM Areas of Responsibility

SURPLUS FACILITIES

-  Currently in EM D&D Program
-  Currently in Surplus Program (not EM)
-  Projected for Surplus by 2005 (not EM)

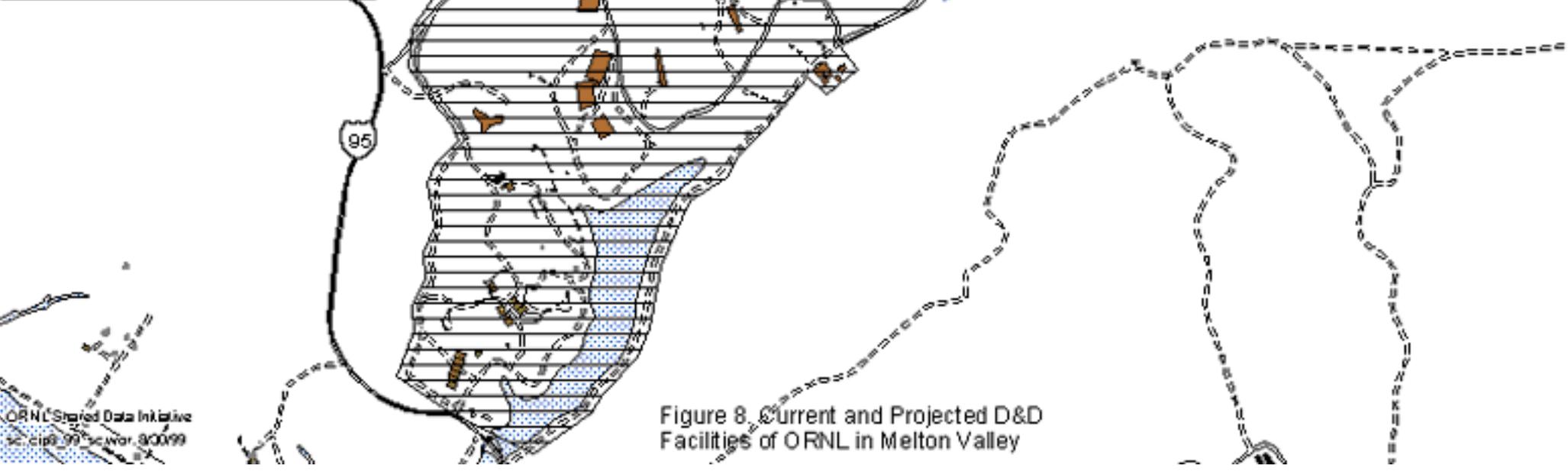
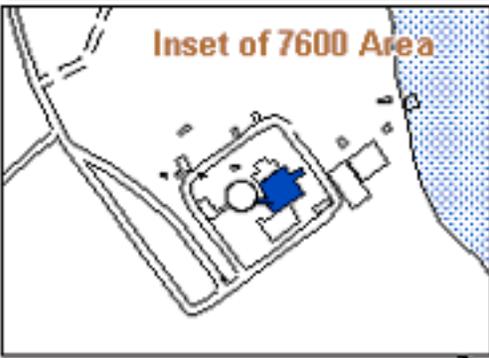
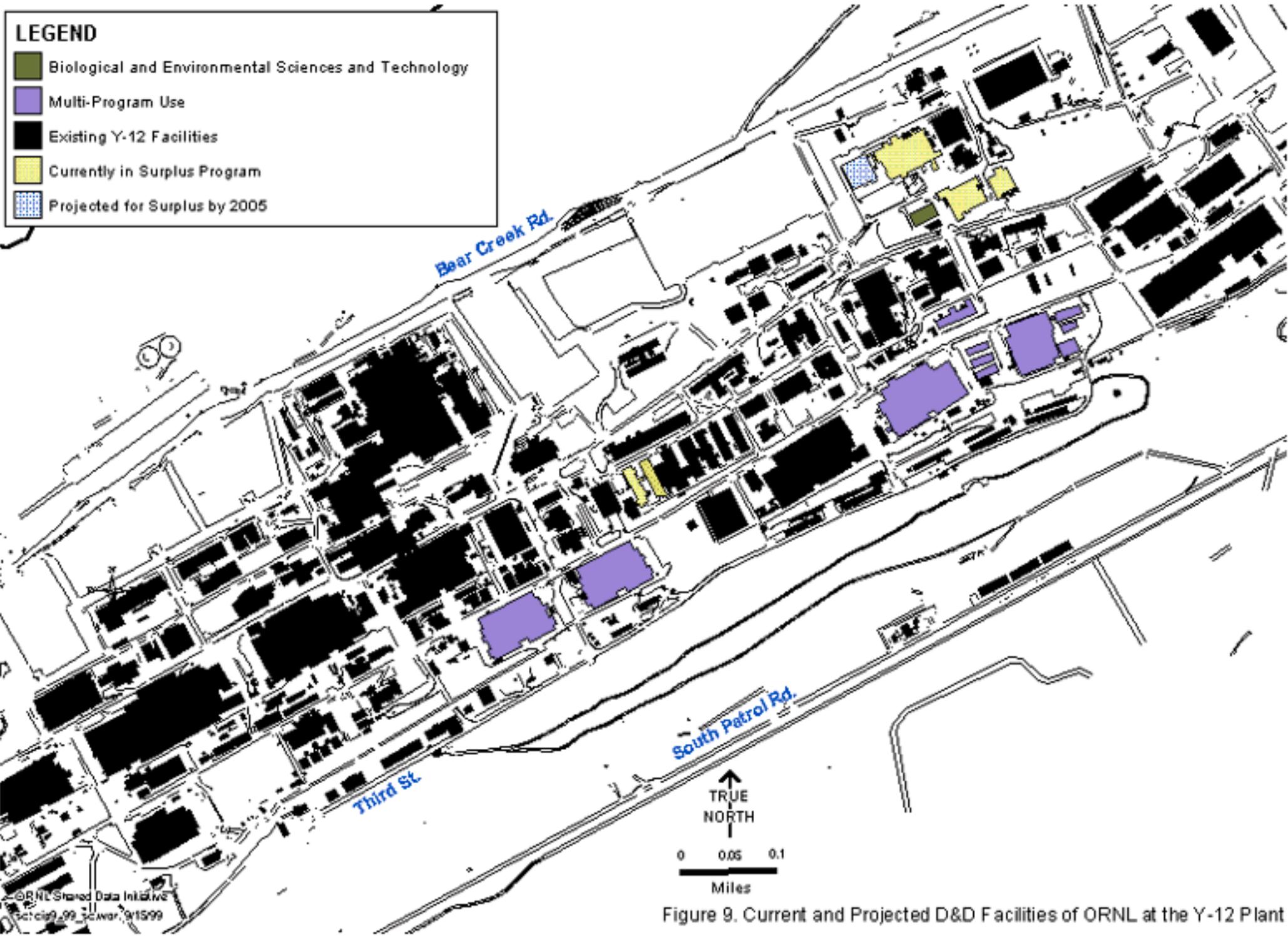


Figure 8. Current and Projected D&D Facilities of ORNL in Melton Valley

LEGEND

- Biological and Environmental Sciences and Technology
- Multi-Program Use
- Existing Y-12 Facilities
- Currently in Surplus Program
- Projected for Surplus by 2005



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Figure 9. Current and Projected D&D Facilities of ORNL at the Y-12 Plant

KEY

- 1 Center for Biological Sciences
- 2 Environmental and Life Sciences Laboratory
- 3 Laboratory for Comparative and Functional Genomics
- 4 Seismic Upgrades, 1506
- 5 Support Services Building
- 6 Steam Plant Upgrades
- 7 Nanoscience Metrology and Instrumentation Lab
- 8 Process Waste Treatment System Relocation, 3608
- 9 Advanced Materials Characterization Laboratory
- 10 Building 4509 Maintenance Shop
- 11 Replace Cooling Tower 4511
- 12 Mailroom Facility
- 13 Building 3144 Addition
- 14 Eyewash and Safety Shower Upgrades
- 15 Center for Computational Sciences and 40-Teraflops Computer Facilities
- 16 Central Services and Conference Center Facility
- 17 Computer Facility Upgrades
- 18 New 1.5-Million-Gallon Water Reservoir
- 19 Technical Support Building Addition, 4512
- 20 Addition to Building 6012
- 21 Radioactive Ion Beam Upgrade, ORIC
- 22 Isotope Separator On-line (ISOL) Facility
- 23 Demolish and Replace Building 6003
- 24 Transportation and Packaging Management Facility
- 25 Sanitary Waste Transfer Station
- 26 Heavy Equipment Shed
- 27 Lambert Quarry Signage and Fencing
- 28 Joint Institute for Neutron Science
- 29 Spallation Neutron Source

GENERAL UPGRADES

- * Fire Protection Upgrades
- * HVAC Upgrades
- * Electrical Upgrades
- * Security Perimeter Reconfiguration

LEGEND

- Existing Facilities
- Planned Development
- Modifications to Existing Buildings

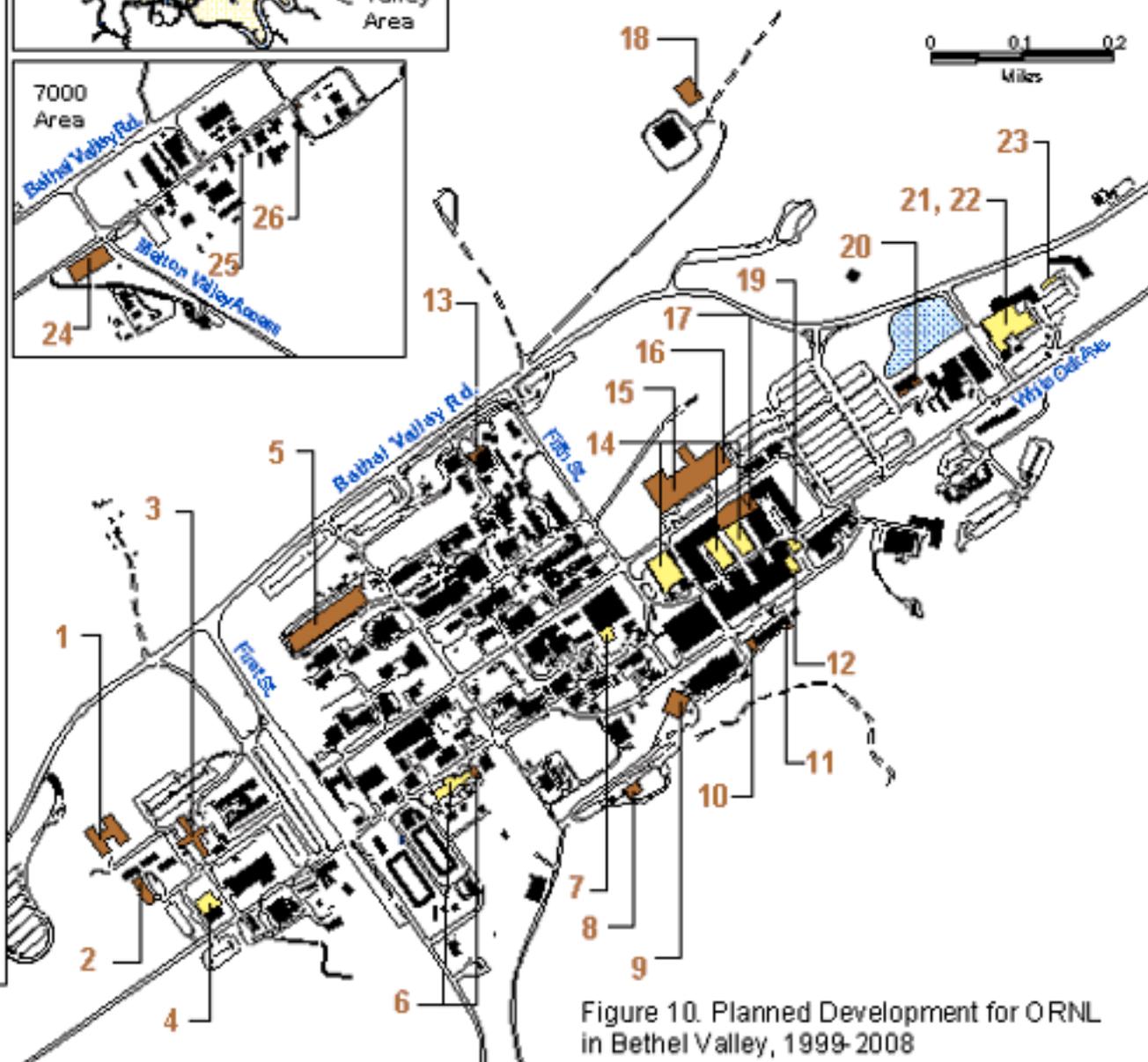
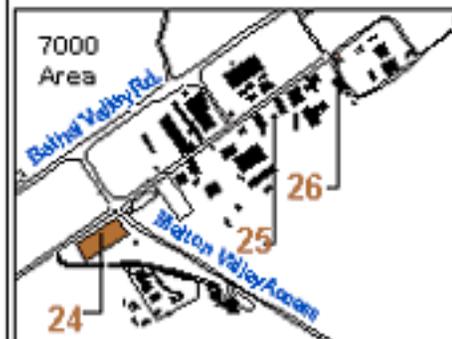
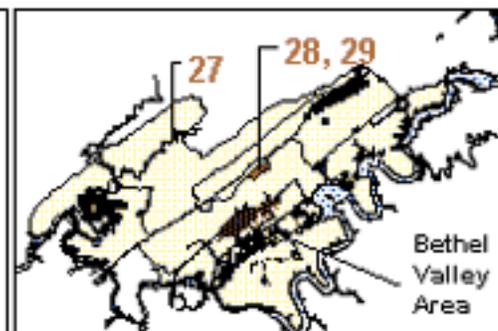


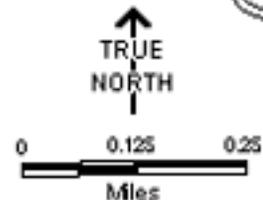
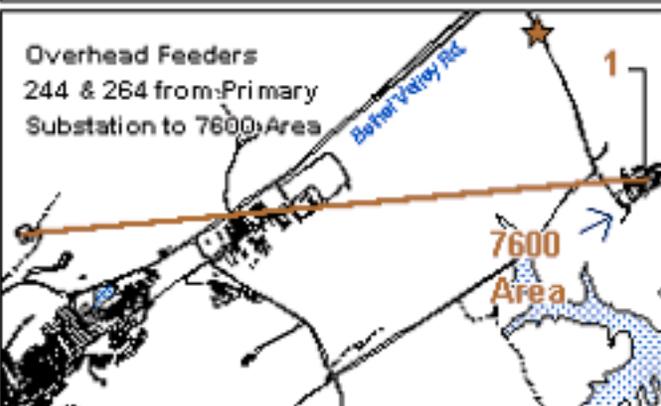
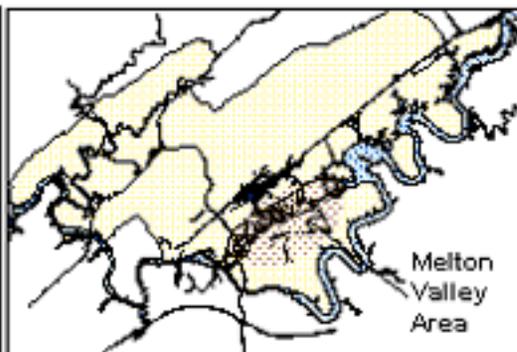
Figure 10. Planned Development for ORNL in Bethel Valley, 1999-2008

KEY

- 1 7602 High Bay Upgrade
- 2 Transuranic Waste Packaging Facility
- 3 Neutron Sciences Support Building
- 4 HFIR HB4 Beamline
- 5 HFIR Entrance Addition/Expansion
- 6 Neutron Sciences Support Building
- 7 HFIR Cooling Tower
- 8 HFIR Cold Source
- 9 HFIR Accelerator/Reactor Improvement Modifications
- 10 Melton Valley Rd. Upgrade
- 11 7930 Upgrade
- 12 7920 Expansion
- 13 HFIR Remote Handling Facility
- ★ Security Perimeter Reconfiguration

LEGEND

- Existing Facilities
- ORNL Planned Development
- Modifications to Existing Buildings
- EM/EF Planned Development
- EM Areas of Responsibility



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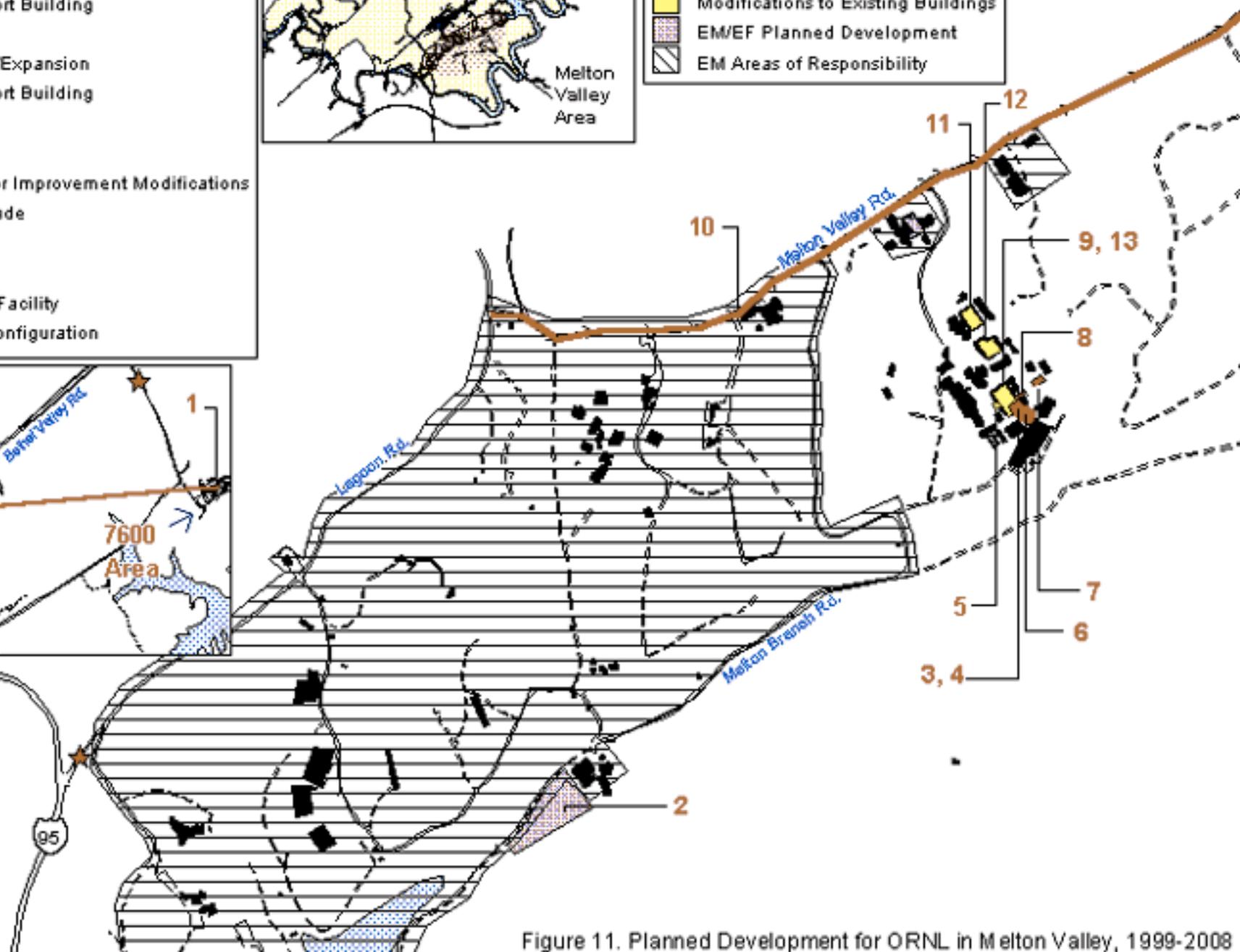


Figure 11. Planned Development for ORNL in Melton Valley, 1999-2008

LEGEND

-  Facilities that are now surplus* or will be surplus within 10 years**
-  Candidate Surplus Facilities
-  Existing Facilities

* Surplus refers to facilities that are surplus to DP.

** Approximately 45 additional small support facilities that are surplus and in the Y-12 Facility Transition Program are not shown on the map.

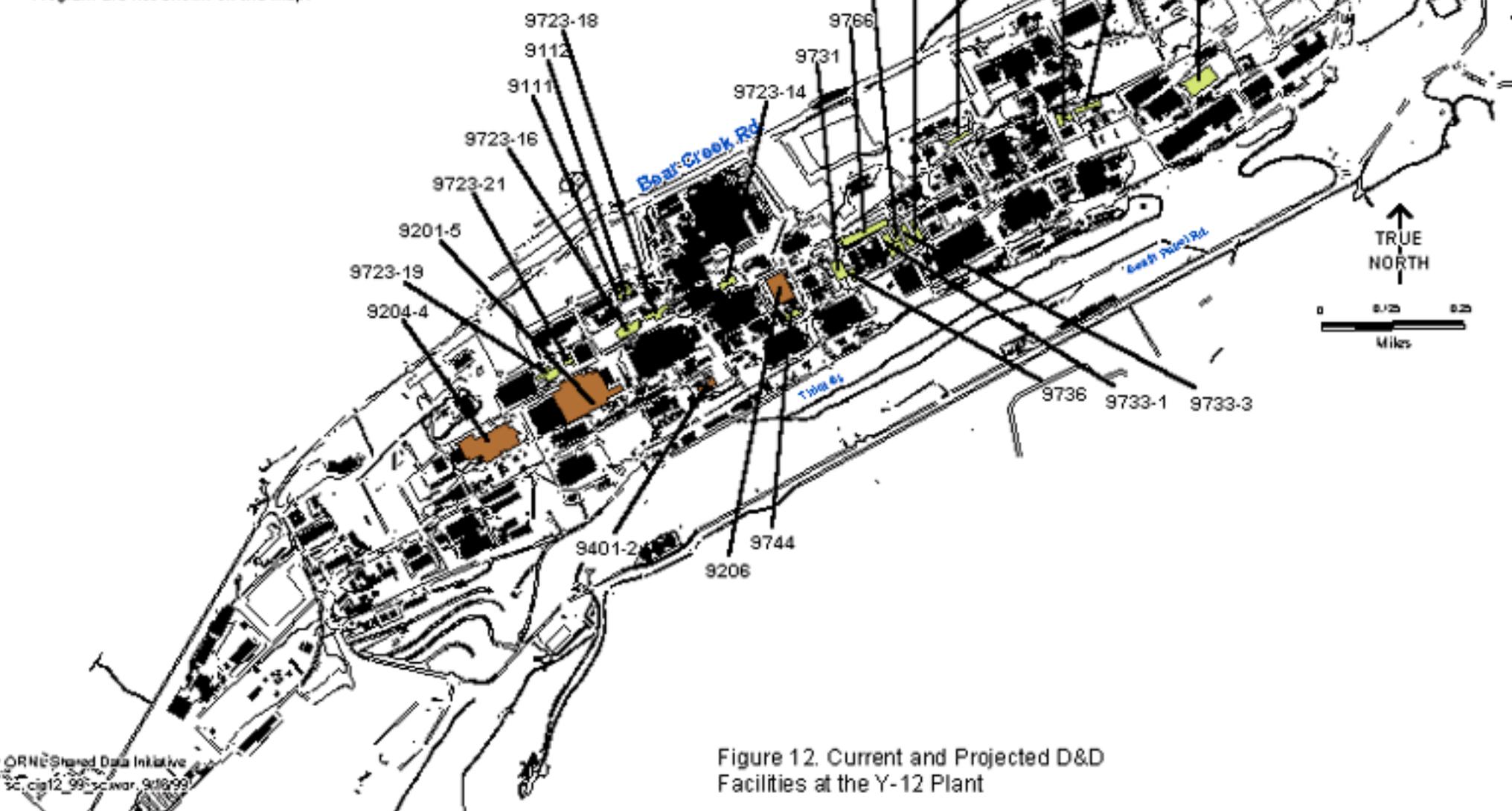
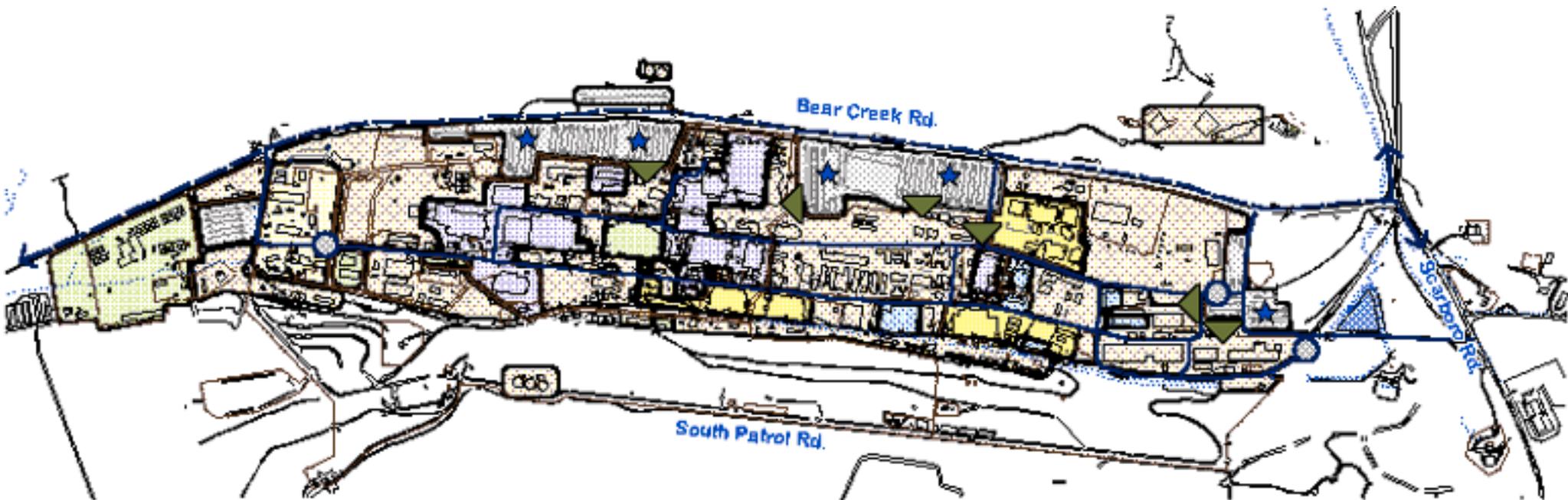


Figure 12. Current and Projected D&D Facilities at the Y-12 Plant



LEGEND

-  Defense Programs Site Services
-  Defense Programs Core Stockpile Management
-  Environmental Management
-  Defense Programs Work for Others/Technology Transfer
-  Energy Research ORNL Campus
-  Employee Parking
-  Defense Programs Construction Services (MK-F)
-  Primary Vehicular Circulation
-  Secondary Vehicular Circulation
-  Plant Vehicular Access Points
-  Pedestrian Portals
-  Primary Parking Areas


NORTH
 True Grid

0.0 0.25 0.5

 Miles

Map is in the Y-12 Plant grid system.

Figure 13. Existing Primary Land Uses at the Y-12 Plant

East Tennessee Technology Park Preliminary Master Land Use Plan

(Pre-decisional 20-Year Plan)

Prepared by

ORR REINDUSTRIALIZATION TEAM ARCHITECTURE & PLANNING

Lockheed Martin Energy Systems, Inc.

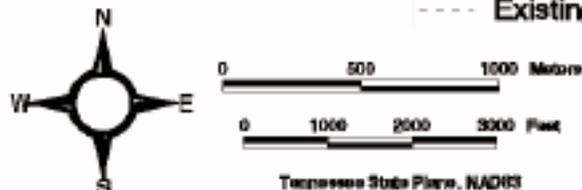
LEGEND:

LAND USES:

-  Mixed Light Industrial, R&D, Office/Lab Facilities
-  Heavy Industrial, Warehouse/Distribution, Waste Storage, Treatment, & Disposal
-  Passive Recreation - Greenway Walking/Jogging Trails
-  Conservation - Biodiversity Preserved Natural Areas
-  Conservation - Open Spaces & Forest Management Areas
-  Restricted Sites - Areas of Contamination

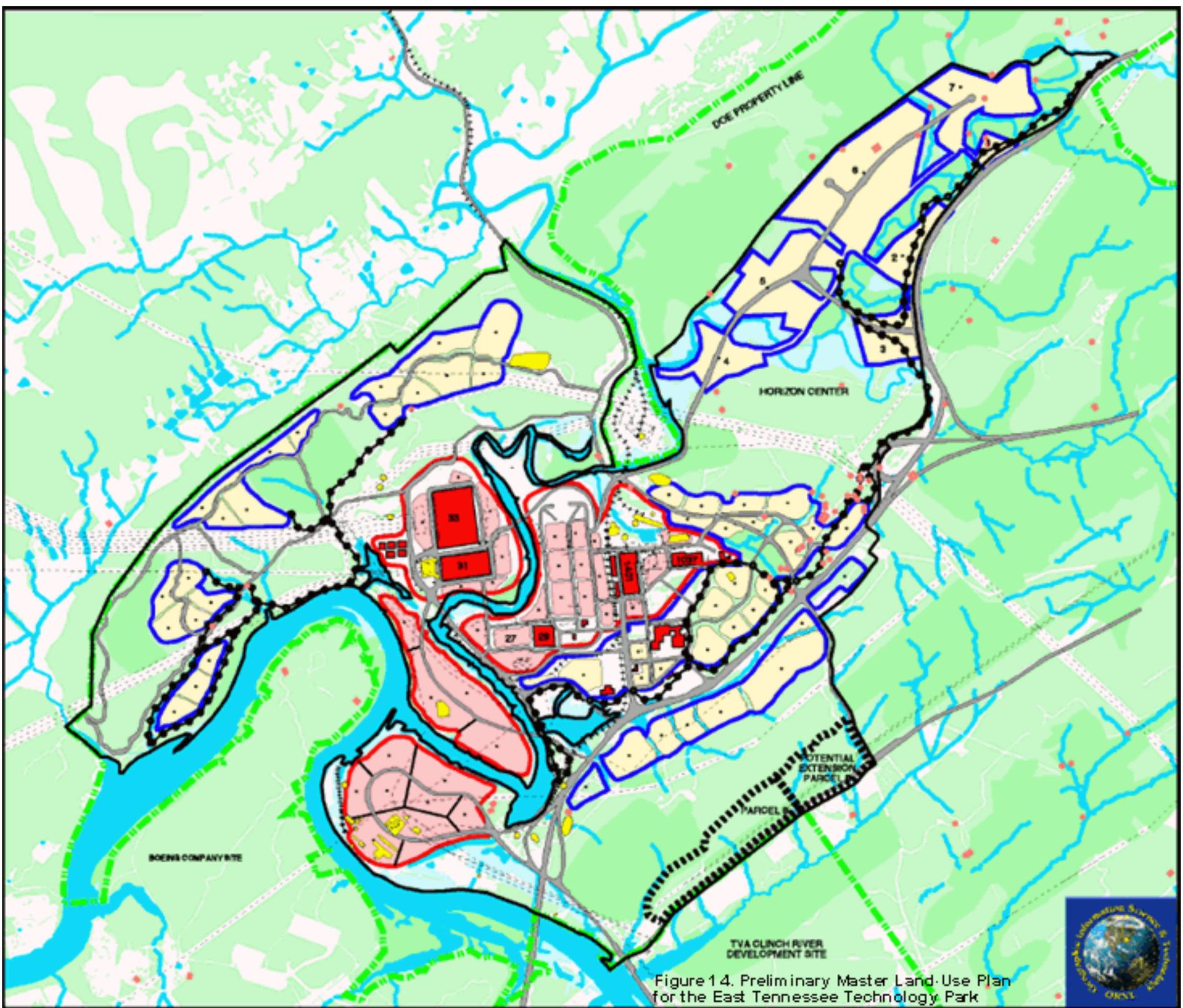
SITE FEATURES:

-  ETTP Area of Responsibility & Horizon Center
-  Clinch River, Poplar Creek, and Streams
-  100-Year Flood Plain and 30' Stream Buffers
-  Protected Biodiversity Ranked Areas
-  Open Spaces & Forest Management Areas
-  Historical/Archeological Sites
-  Retained Site Structures
-  Existing Rail Lines
-  Existing Electrical Power Lines



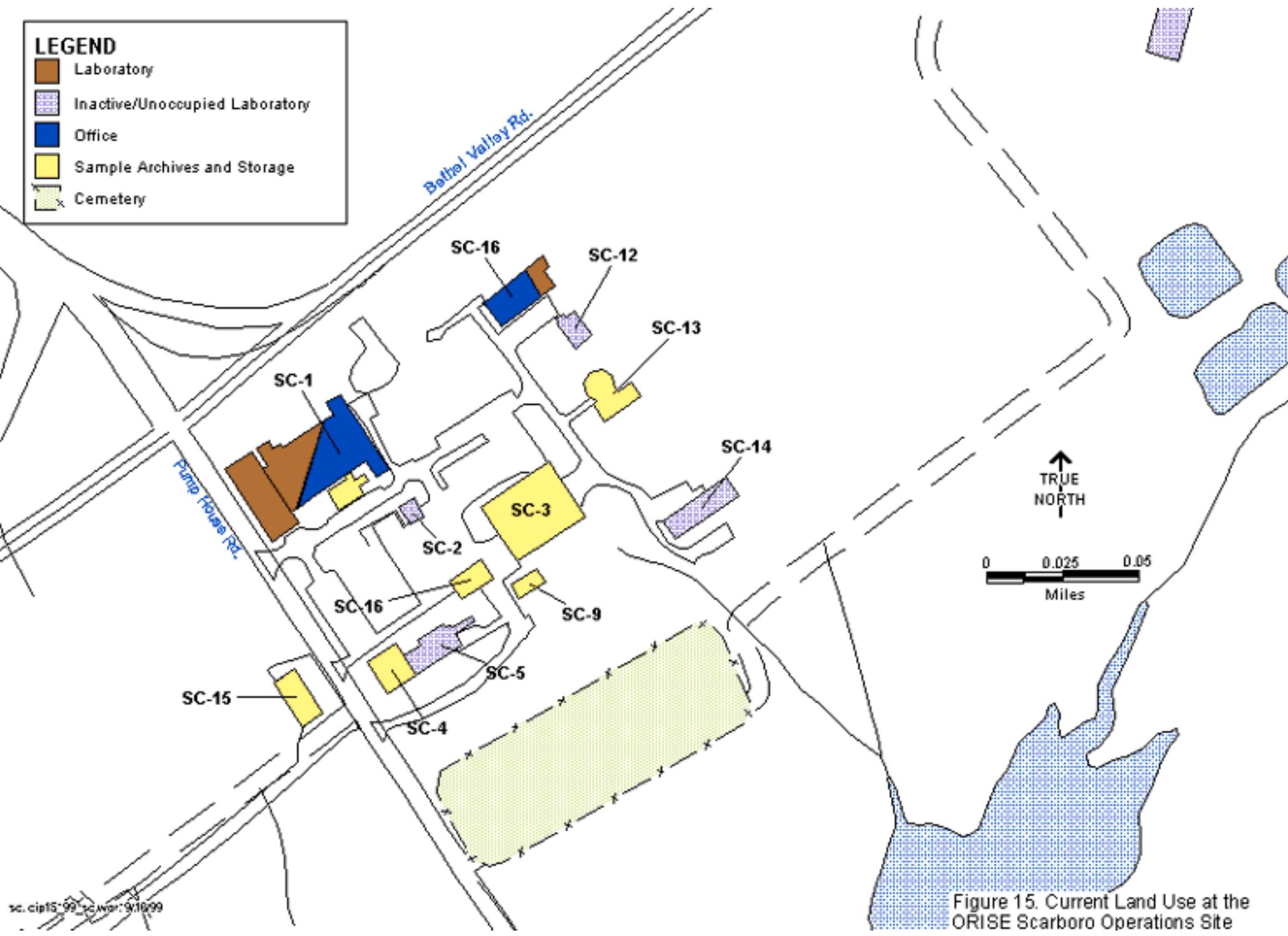
Produced by: Geographic Information Science & Technology, ORNL
Base Source: 1993 Orthophoto Imagery and Planimetric Vectors,
Basemap and Imagery Project
Date prepared: July 14, 1999

Figure 14. Preliminary Master Land-Use Plan for the East Tennessee Technology Park.



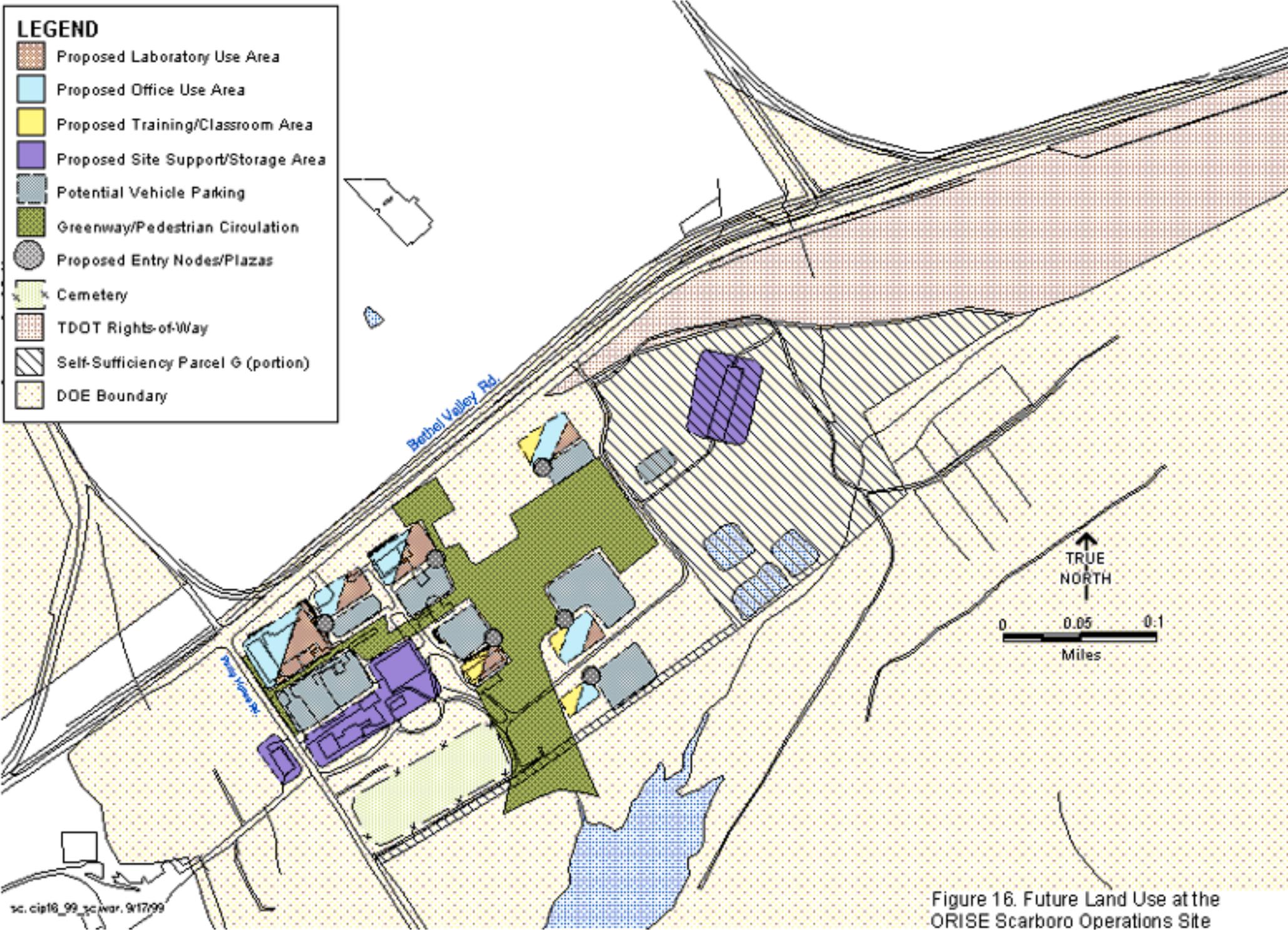
LEGEND

- Laboratory
- Inactive/Unoccupied Laboratory
- Office
- Sample Archives and Storage
- Cemetery



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Figure 15. Current Land Use at the ORISE Scarboro Operations Site

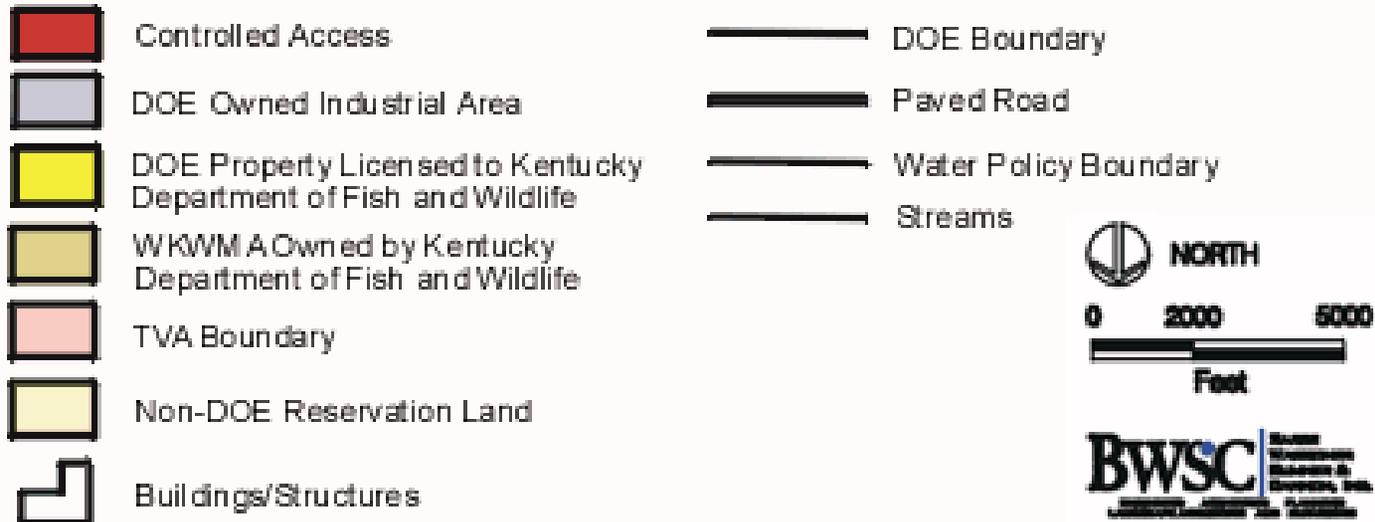


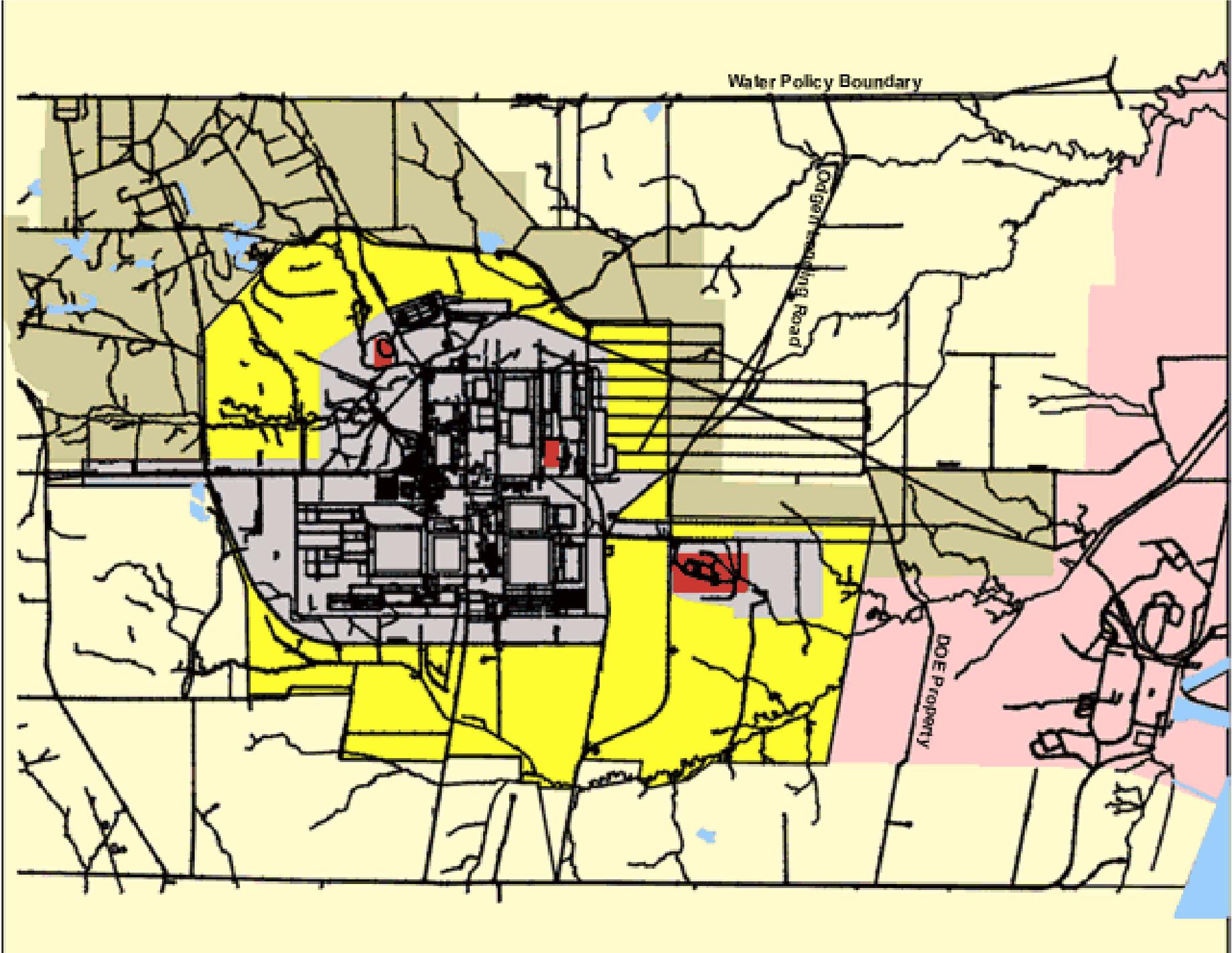
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Figure 16. Future Land Use at the ORISE Scarboro Operations Site

Figure 17. Current land Use at the Paducah Gaseous Diffusion Plant

Legend





MAP LEGEND	
	Building Outlines
	Roads & Parking Areas
	Security Fencing
	Creeks, Streams
	Railroads
	Plant Boundary
	Facilities Leased to USEC
	Facilities Retained by DOE
	Common Area Leased to USEC
	Area Returned to DOE
	Area Retained by DOE
	Railroad Leased to USEC

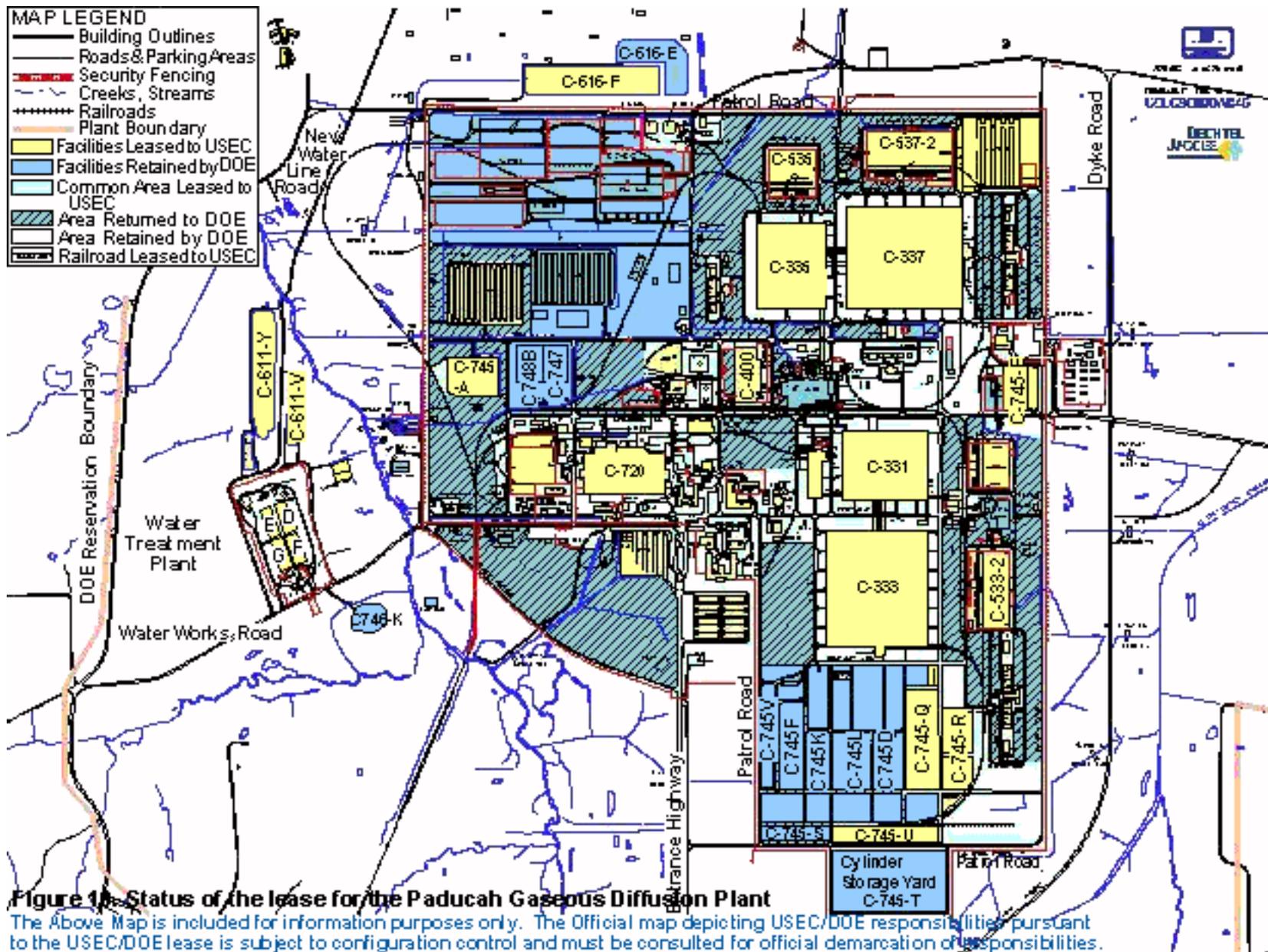
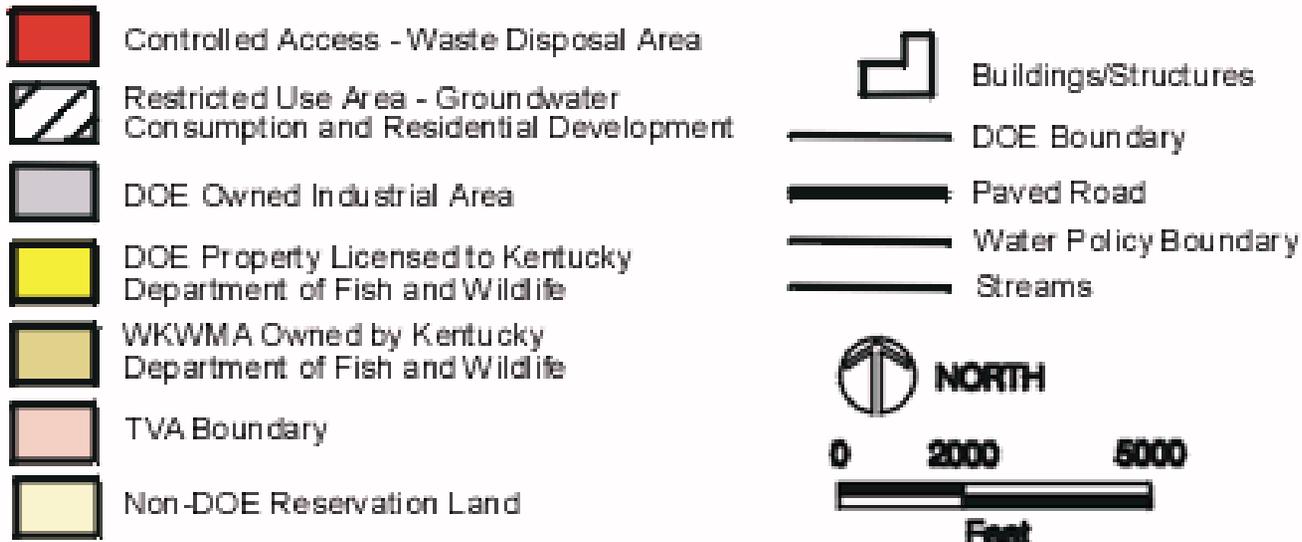


Figure 10. Status of the lease for the Paducah Gaseous Diffusion Plant

The Above Map is included for information purposes only. The Official map depicting USEC/DOE responsibilities pursuant to the USEC/DOE lease is subject to configuration control and must be consulted for official demarcation of responsibilities.

Figure 19. Projected End Use at the Paducah Gaseous Diffusion Plant.

Legend



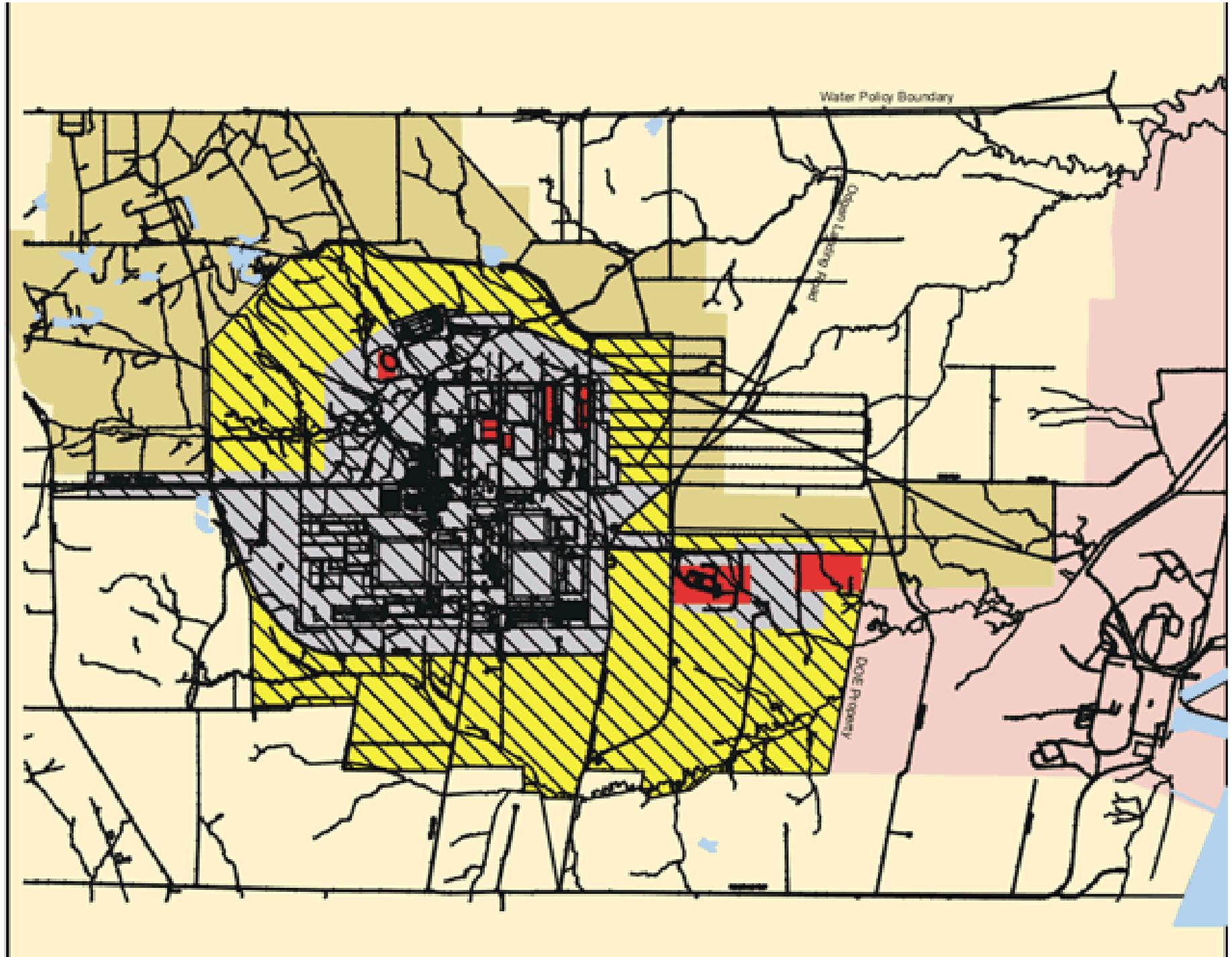
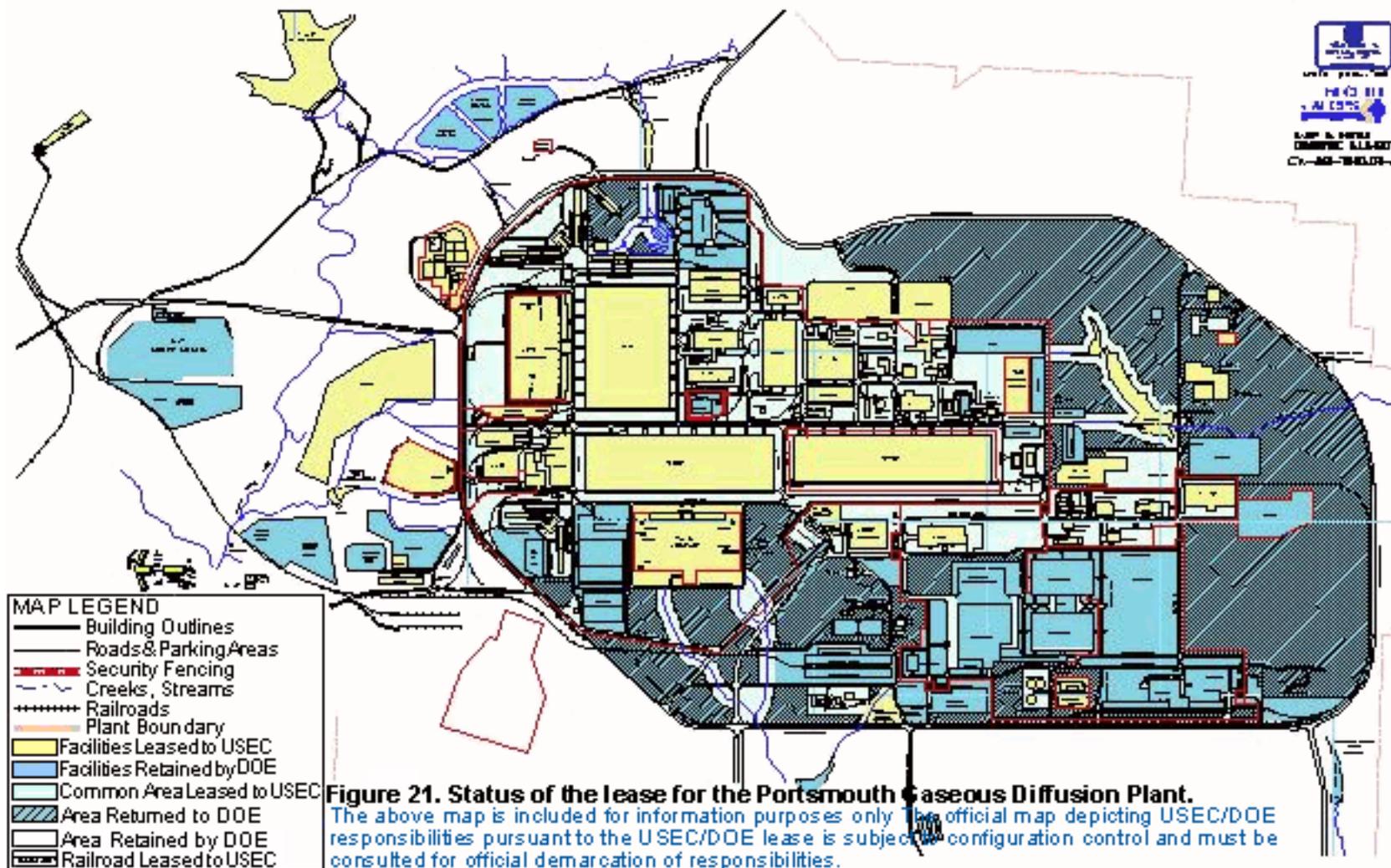




Figure 20. Current Land Use at the Portsmouth Gaseous Diffusion Plant.

Legend

	Restricted Industrial		Building/Structures	 PLANT NORTH  0 1000 3000 Feet
	Controlled Access		Paved Road	
	Use Restrictions		DOE Boundary	
	Non-DOE Reservation Land		Streams	



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 OFFICE OF PUBLIC AFFAIRS

 WASHINGTON, D.C. 20460

 EPA-600/3-88-011



Figure 22. Projected End Use at the Portsmouth Gaseous Diffusion Plant

Legend

	Open Space		Non-DOE Reservation Land
	Restricted Industrial		Building/Structures
	Controlled Access		Paved Road
	Use Restrictions		DOE Boundary
			Streams

