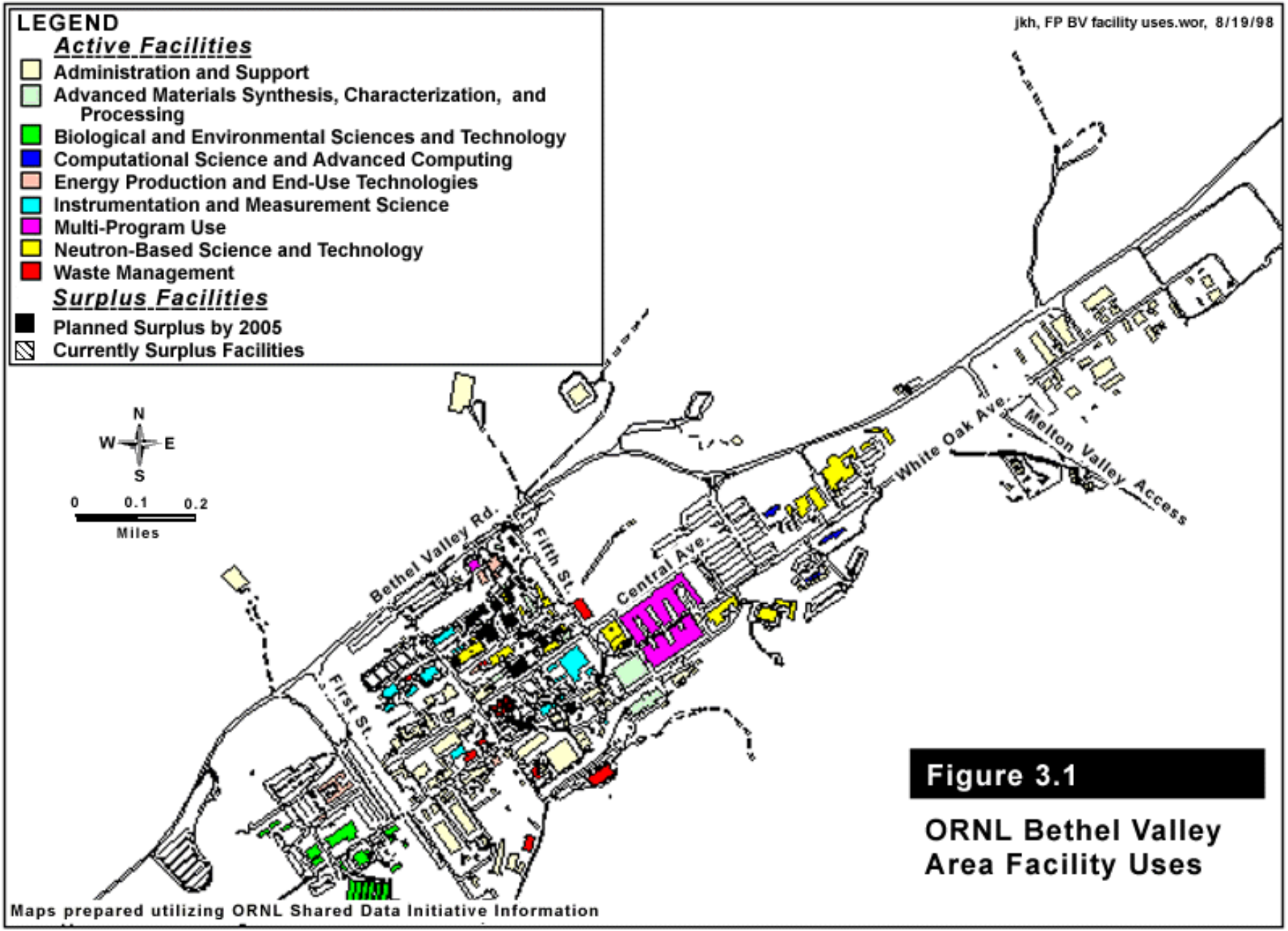


Figure 3.1

ORNL Bethel Valley Area Facility Uses

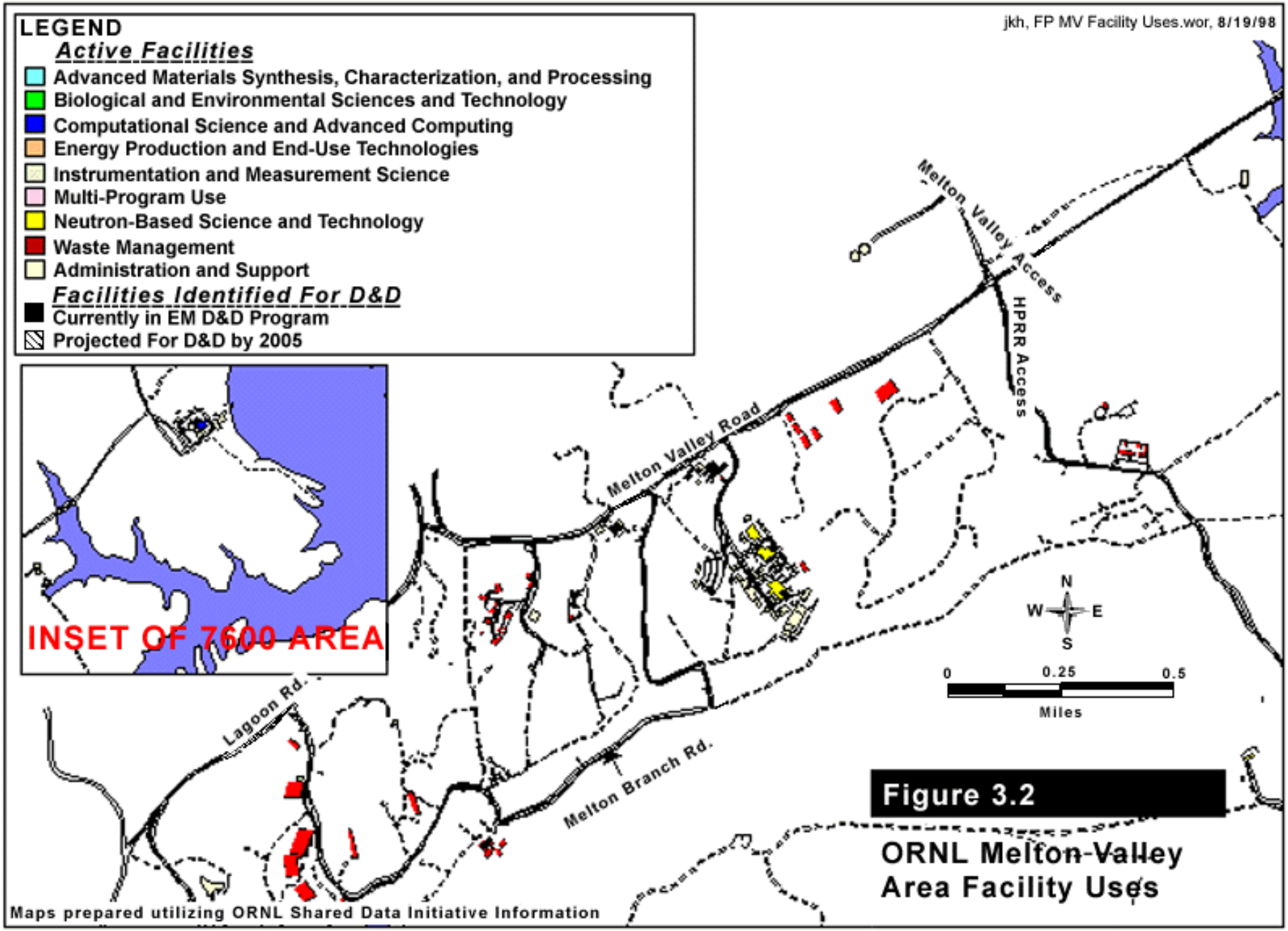
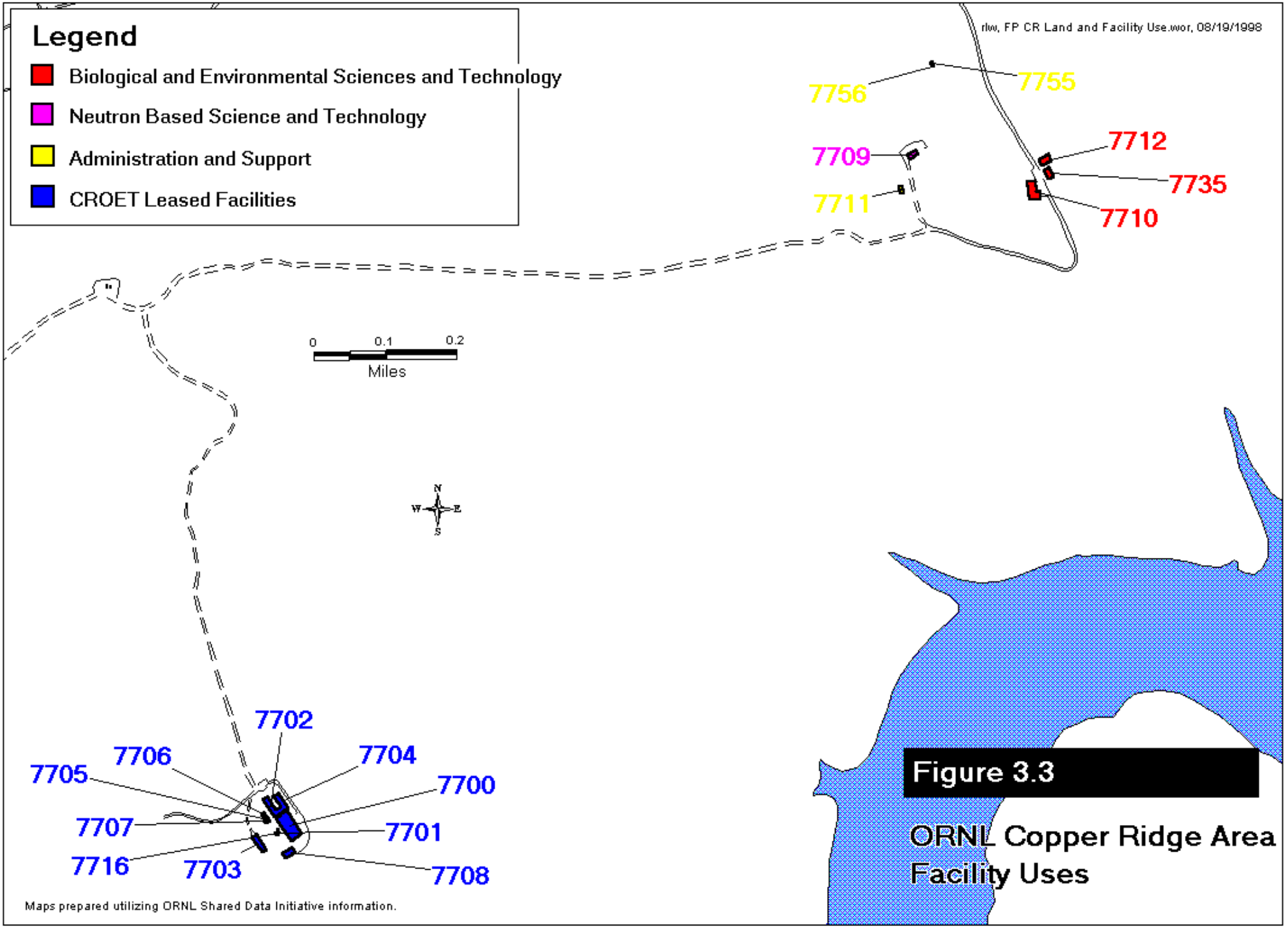


Figure 3.2

ORNL Melton Valley Area Facility Uses


Legend
Biological and Environmental Sciences and Technology
Neutron Based Science and Technology
Administration and Support
CROET Leased Facilities
rlw, FP CR Land and Facility Use.wor, 08/19/1998
7756
7755
7712
7709
7735
7711
7710
0
0.1
0.2
Miles
N
W
E
S
7702
7706
7704
7705
7700
7707
7701
7716
7703
7708
Maps prepared utilizing ORNL Shared Data Initiative information.
Figure 3.3
ORNL Copper Ridge Area
Facility Uses

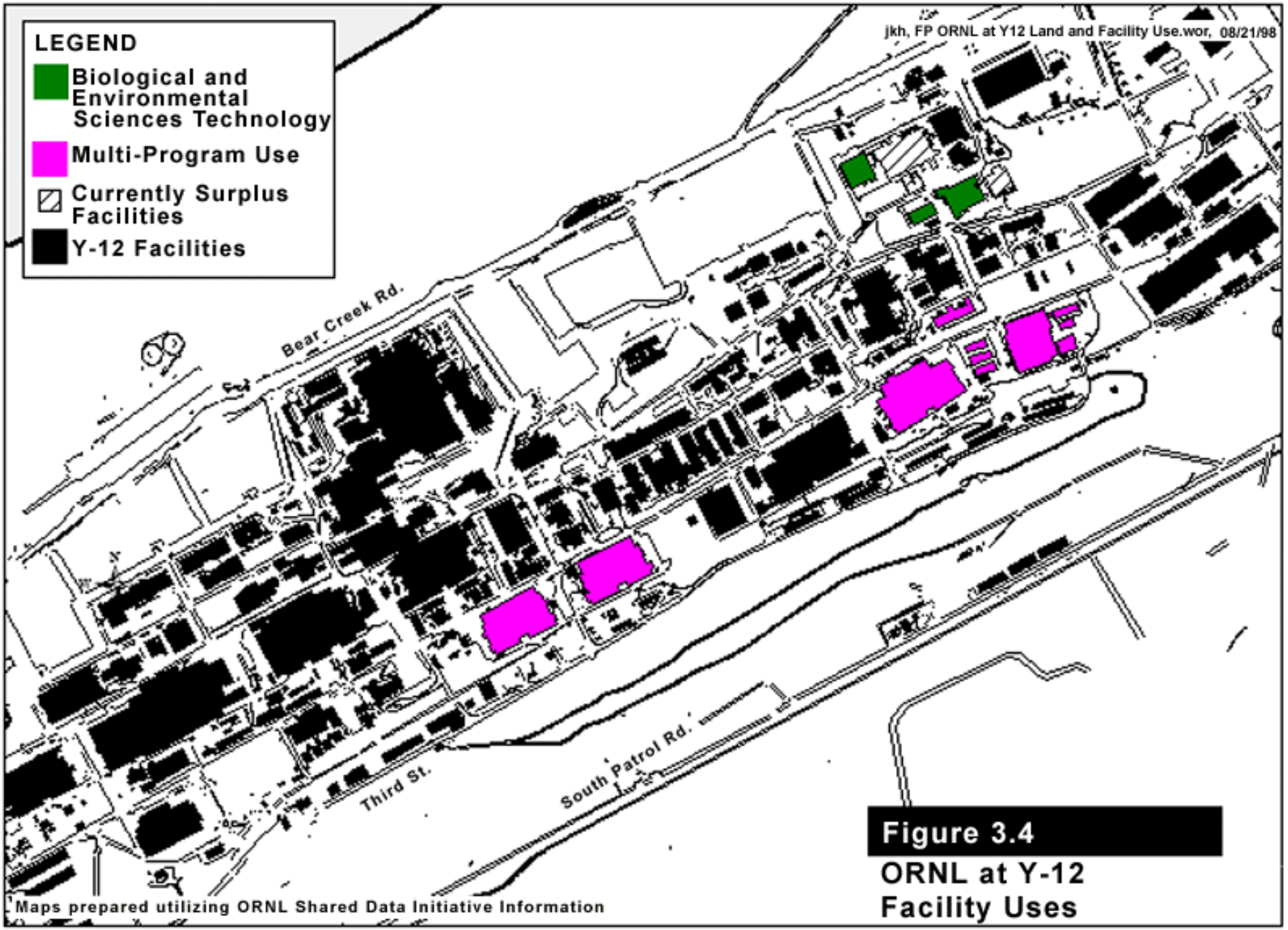


Figure 3.4
ORNL at Y-12 Facility Uses

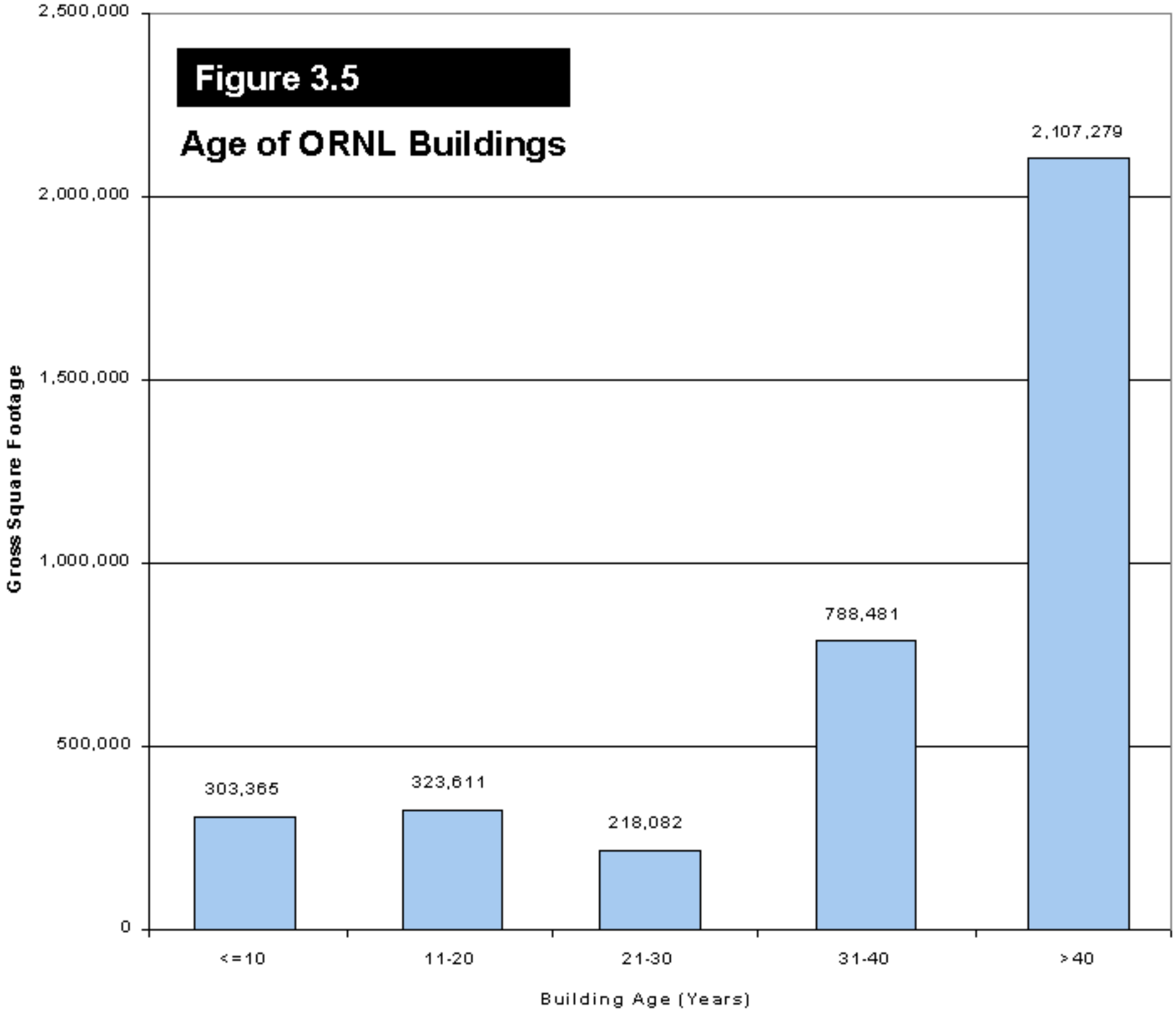


Figure 3.5
Age of ORNL Buildings
2,500,000
2,000,000
1,500,000
1,000,000
500,000
0
Gross Square Footage
303,365
323,611
218,082
788,481
2,107,279
<=10
11-20
21-30
31-40
>40
Building Age (Years)

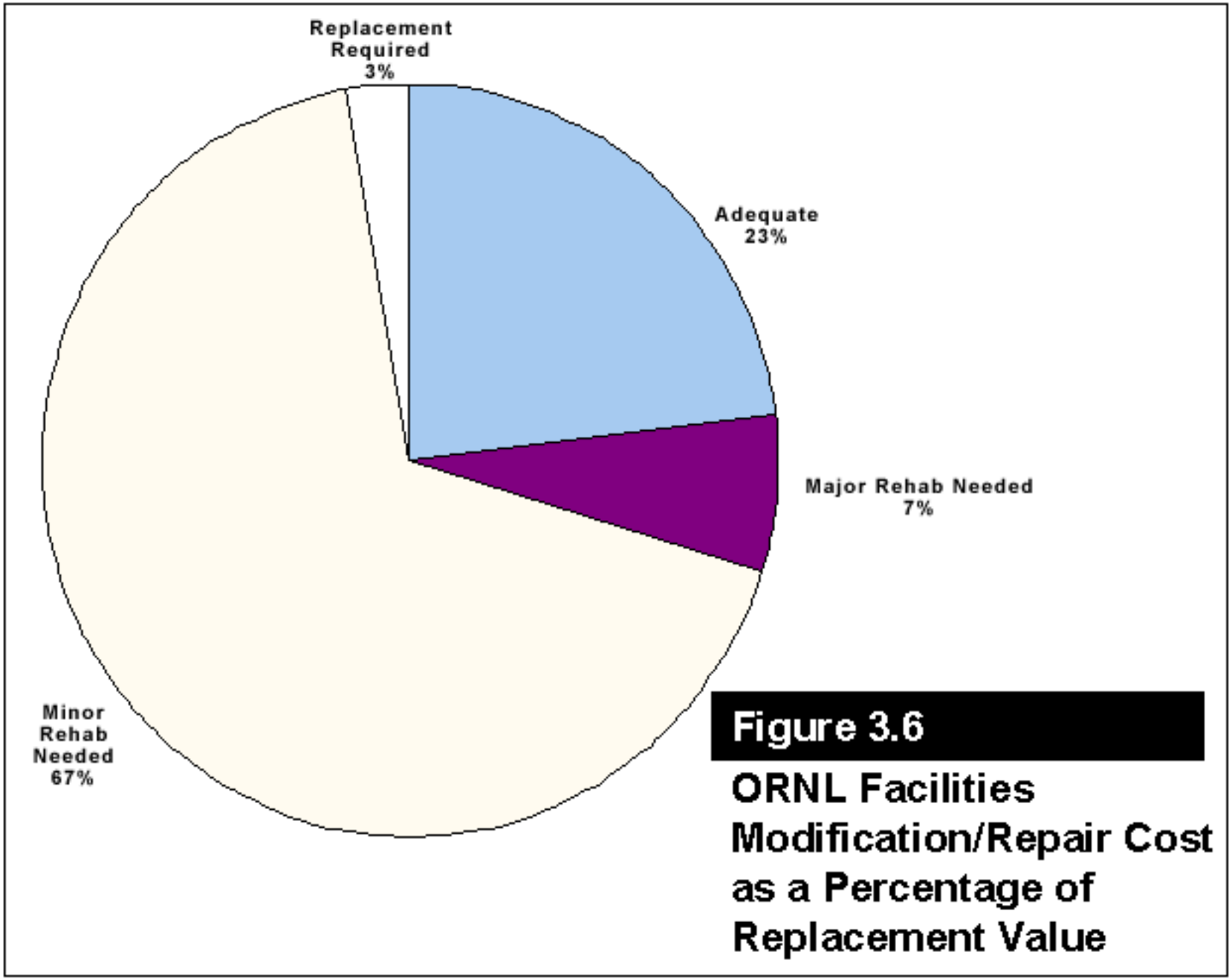


Figure 3.6

ORNL Facilities Modification/Repair Cost as a Percentage of Replacement Value

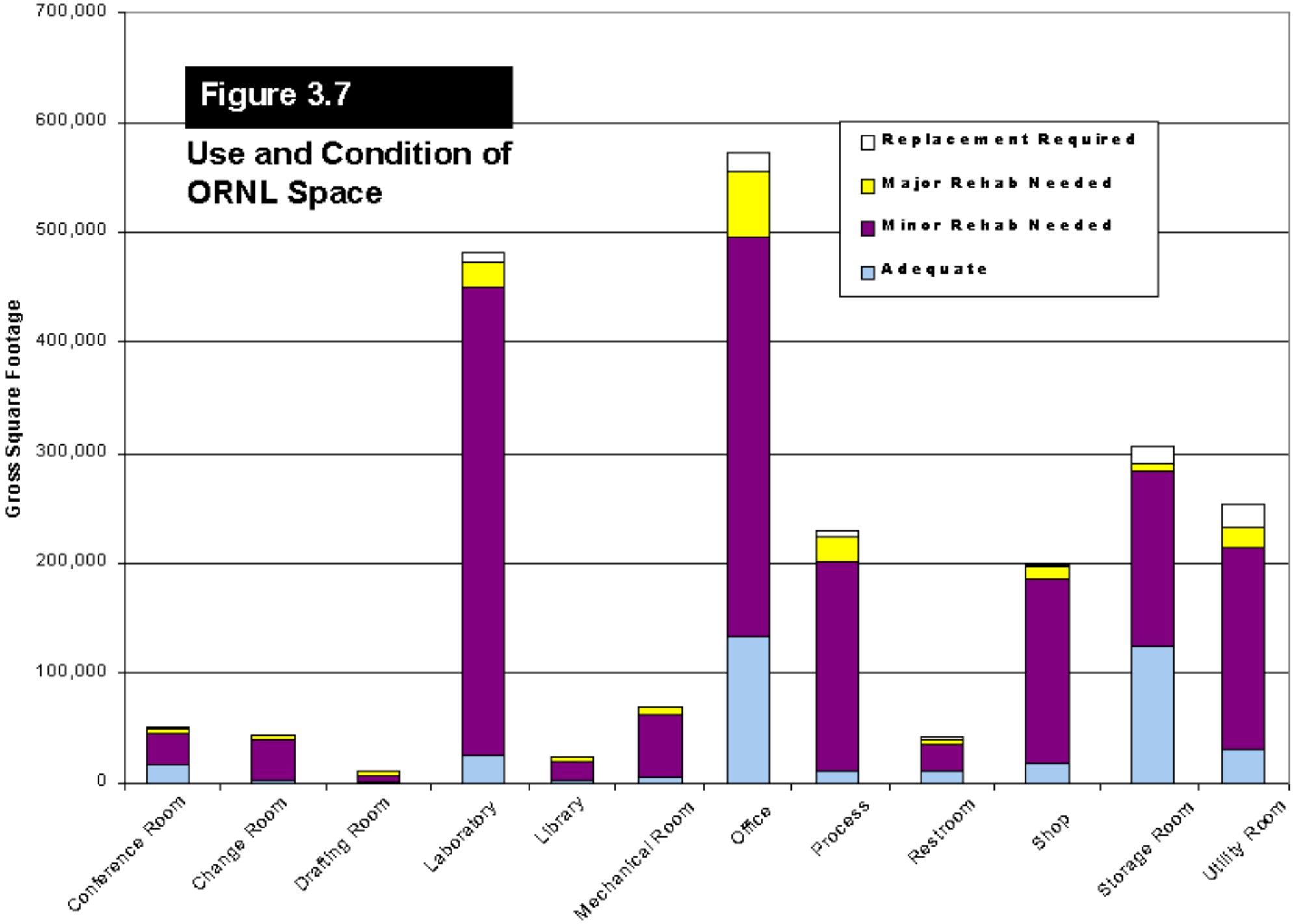
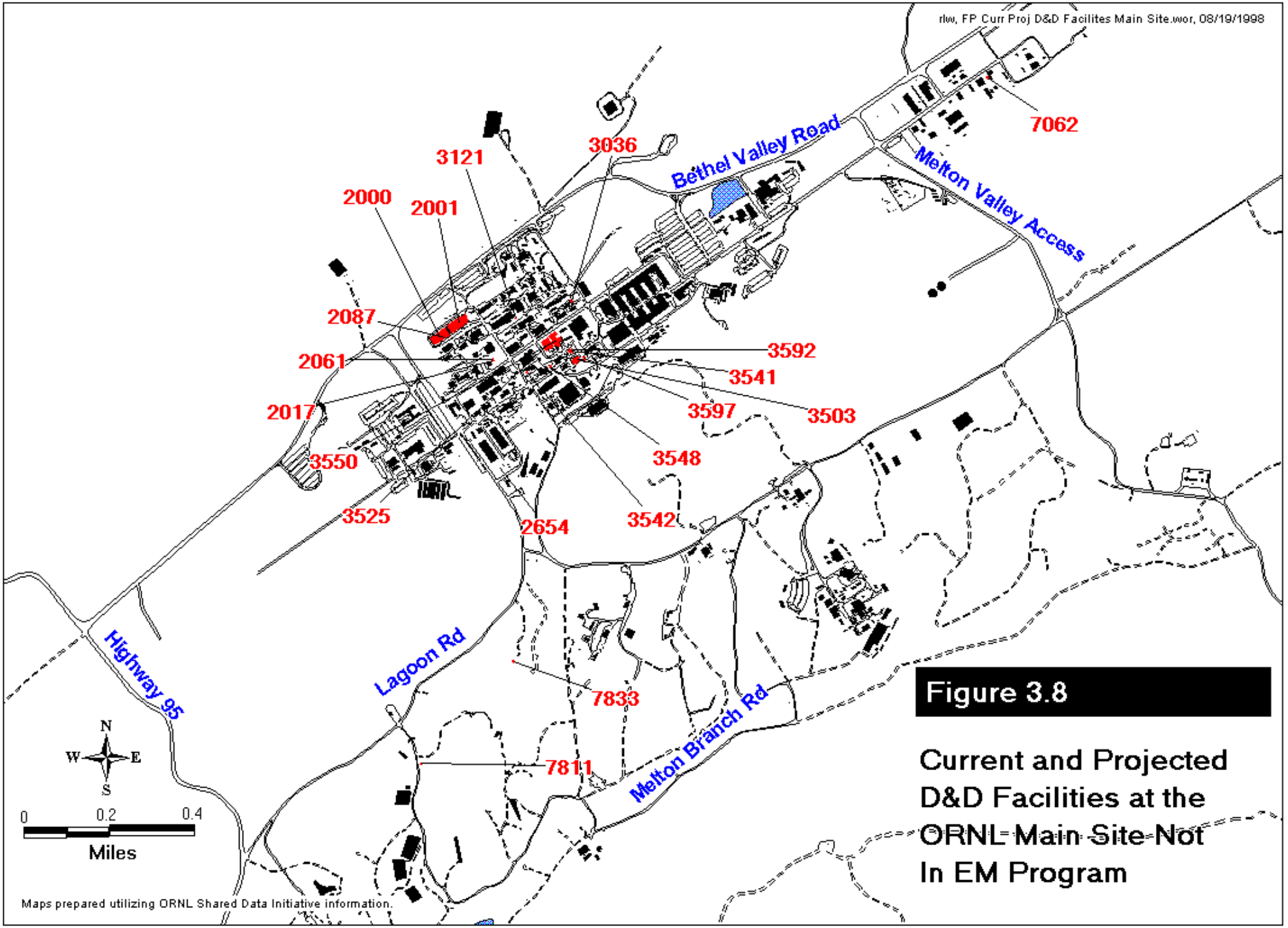


Figure 3.7
Use and Condition of ORNL Space
Gross Square Footage
700,000
600,000
500,000
400,000
300,000
200,000
100,000
0
Replacement Required
Major Rehab Needed
Minor Rehab Needed
Adequate
Conference Room
Change Room
Drafting Room
Laboratory
Library
Mechanical Room
Office
Process
Restroom
Shop
Storage Room
Utility Room


rlw, FP Curr Proj D&D Facilites Main Site.wor, 08/19/1998
7062
3036
3121
Bethel Valley Road
Melton Valley Access
2000
2001
2087
2061
2017
3592
3541
3597
3503
3548
3550
3525
2654
3542
Highway 95
Lagoon Rd
7833
7811
Melton Branch Rd
N
W
E
S
0
0.2
0.4
Miles
Maps prepared utilizing ORNL Shared Data Initiative information.
Figure 3.8
Current and Projected D&D Facilities at the ORNL Main Site Not In EM Program

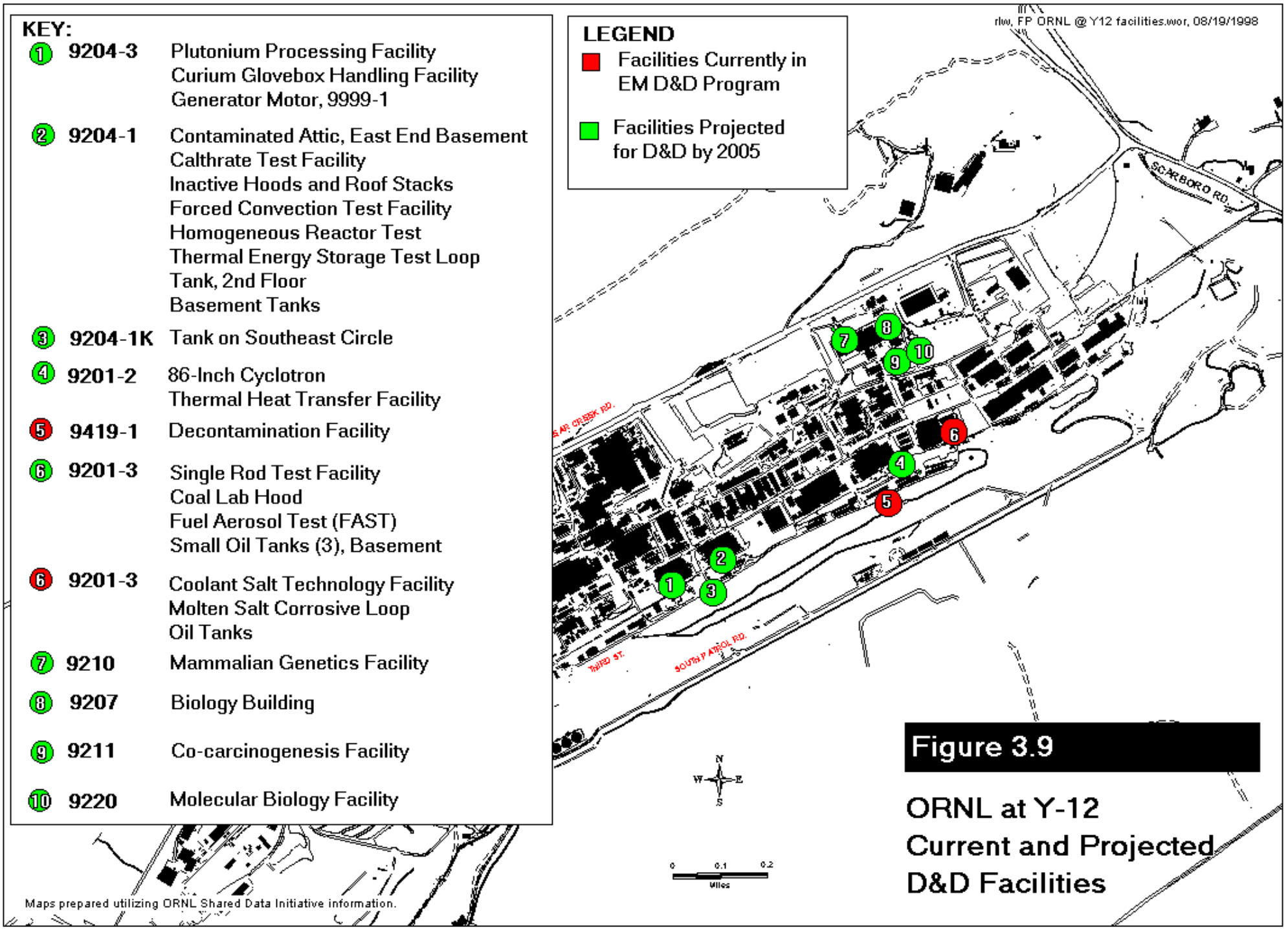


Figure 3.9

ORNL at Y-12
Current and Projected
D&D Facilities

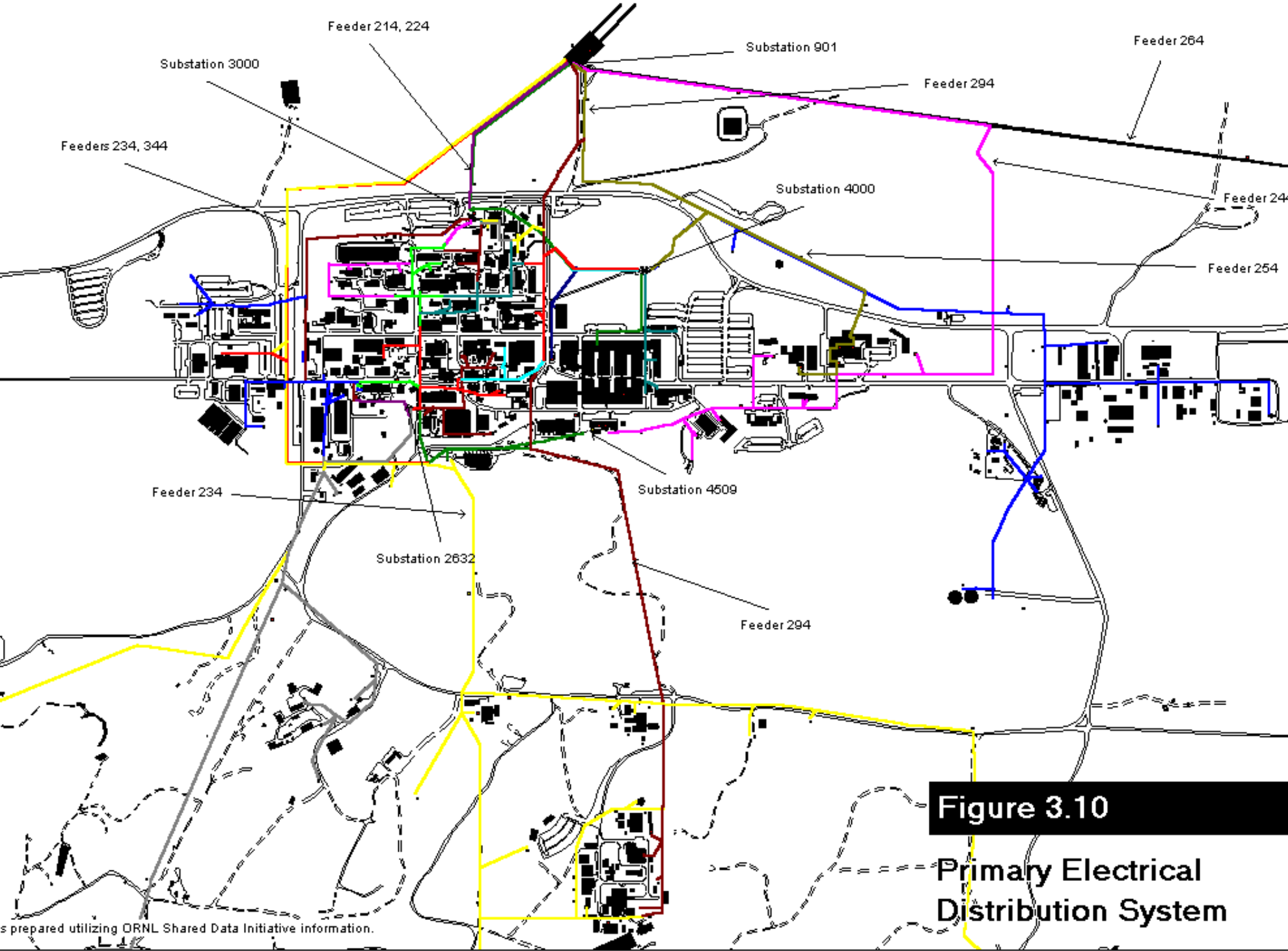


Figure 3.10

Primary Electrical Distribution System

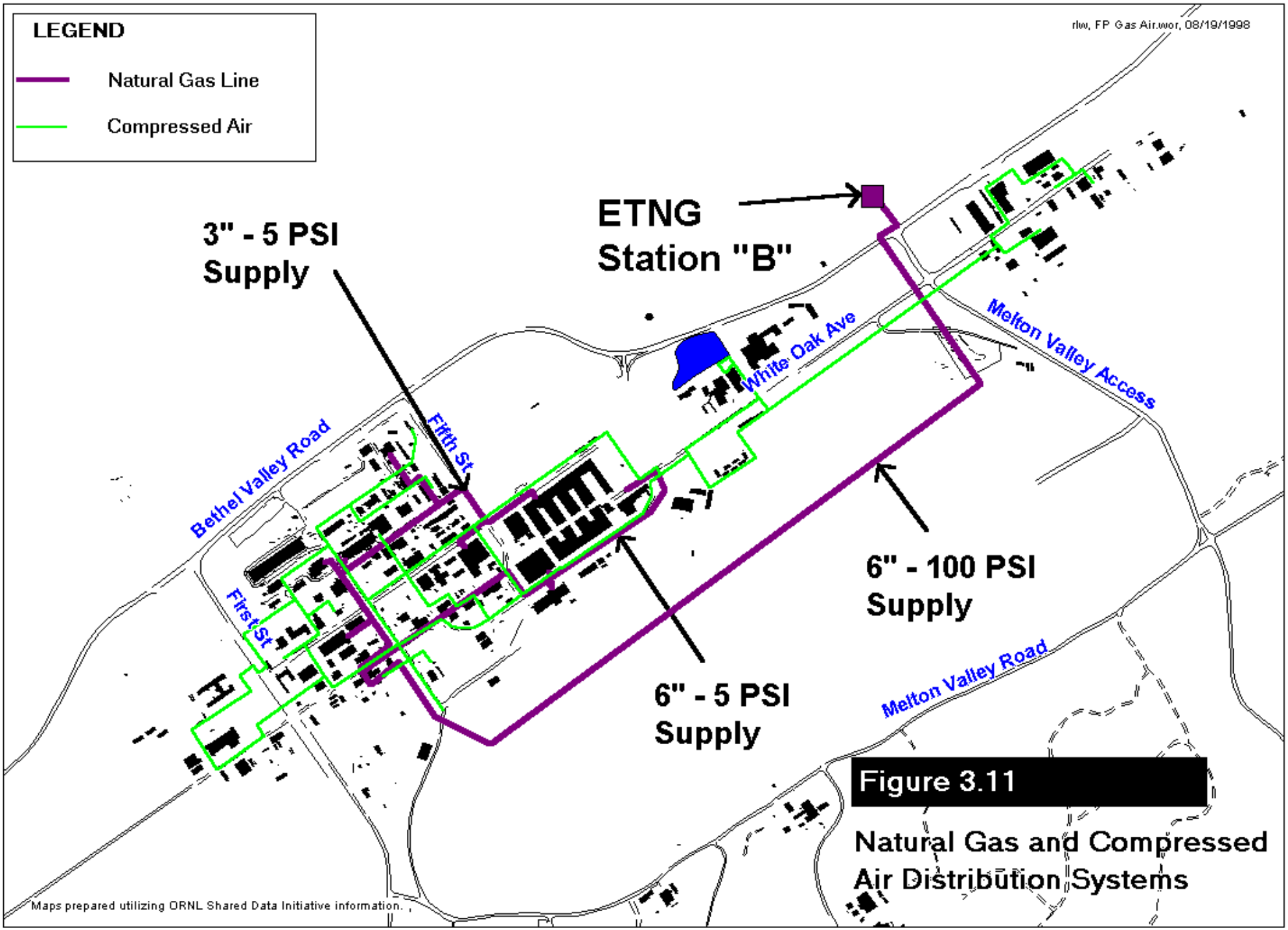


Figure 3.11

Natural Gas and Compressed Air Distribution Systems

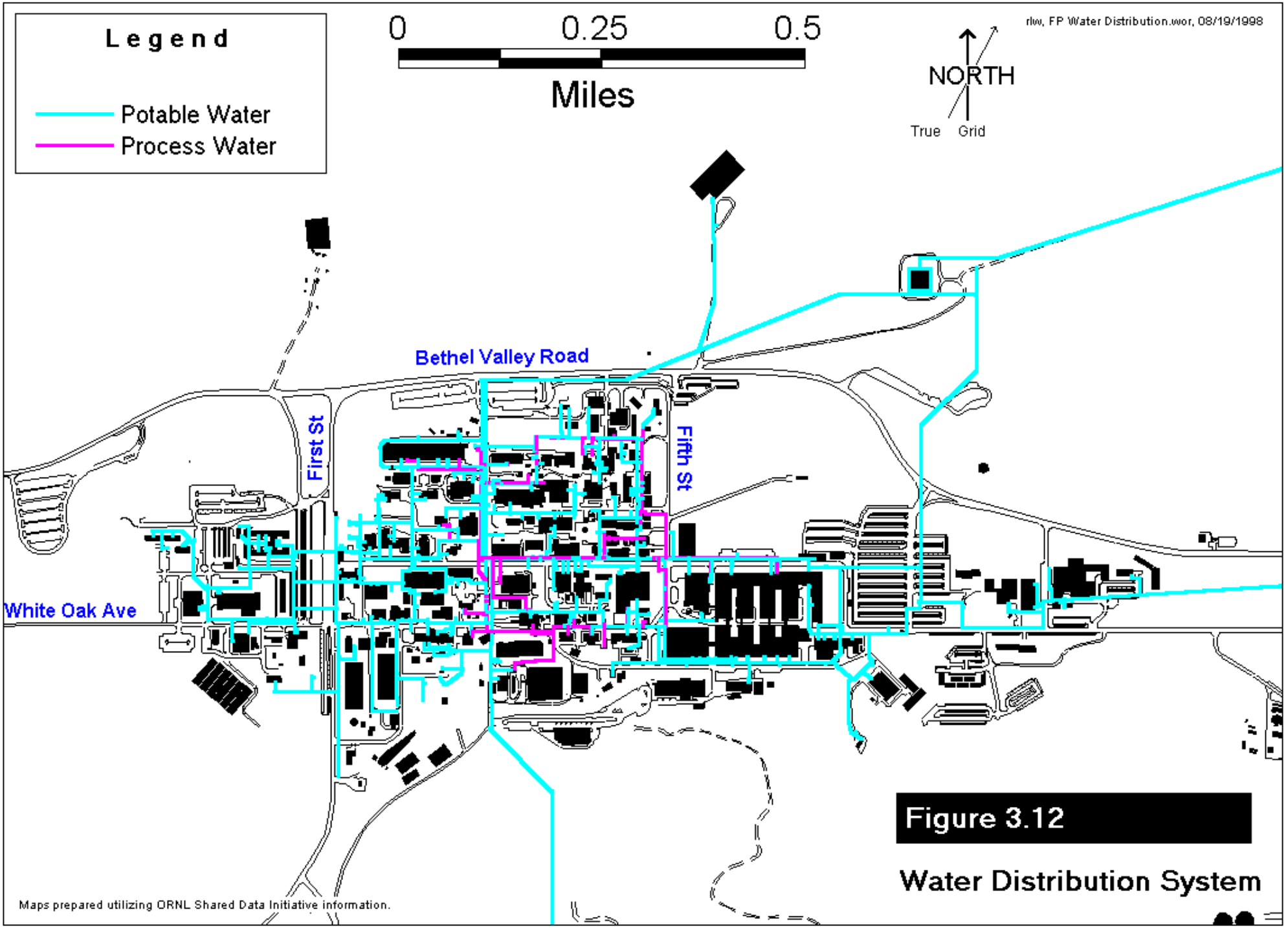


Figure 3.12

Water Distribution System

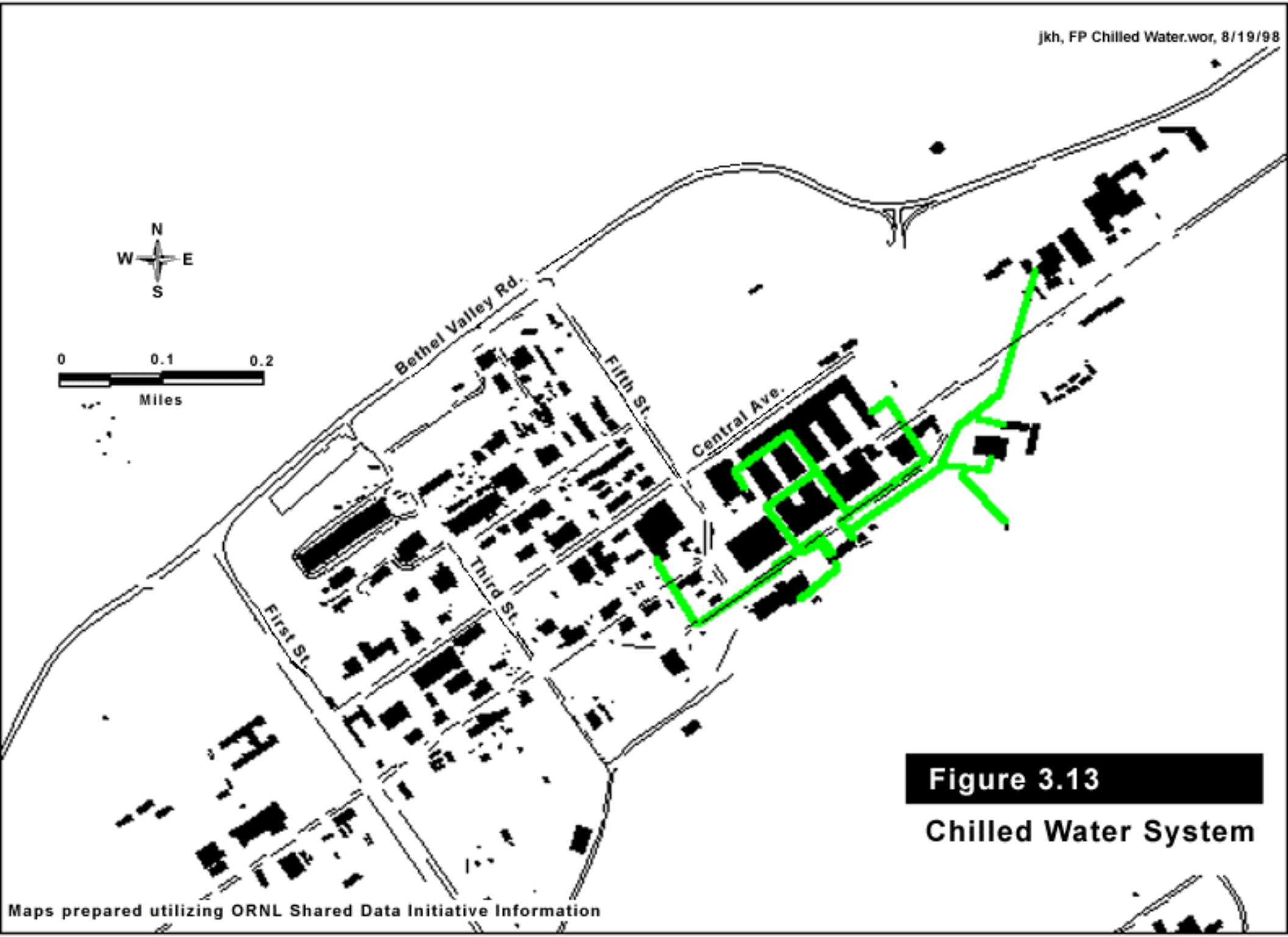


Figure 3.13

Chilled Water System

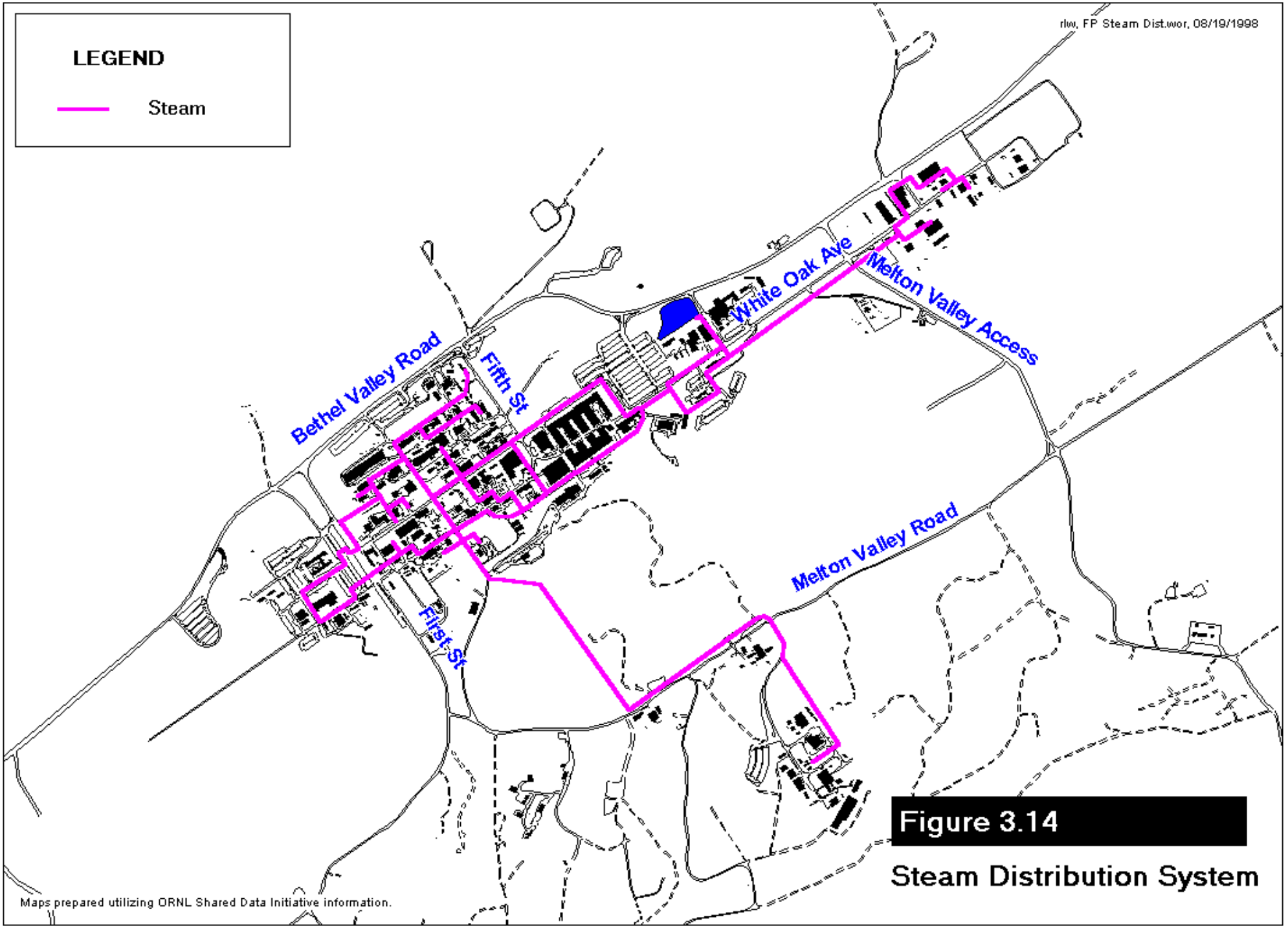


Figure 3.14

Steam Distribution System

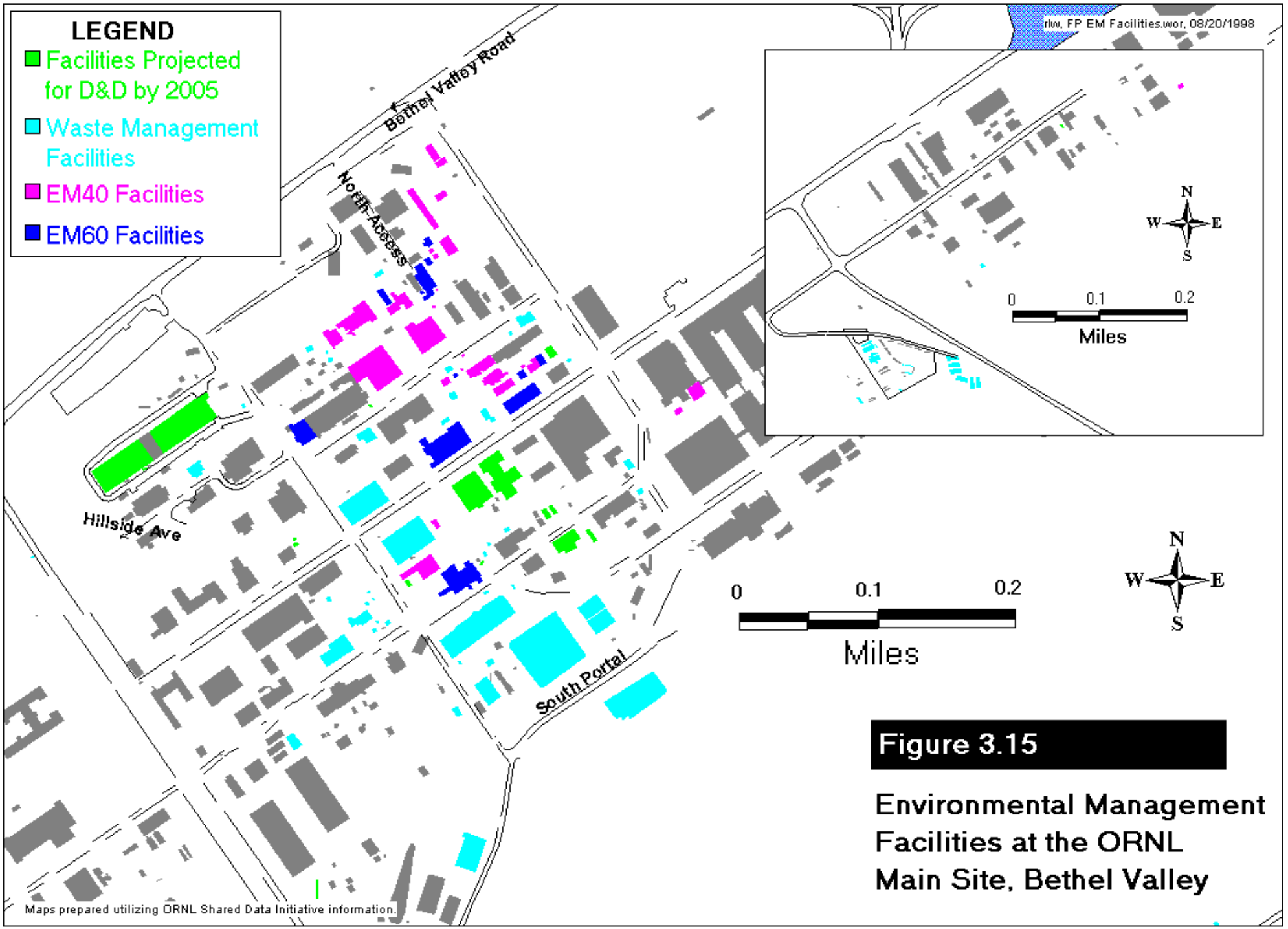
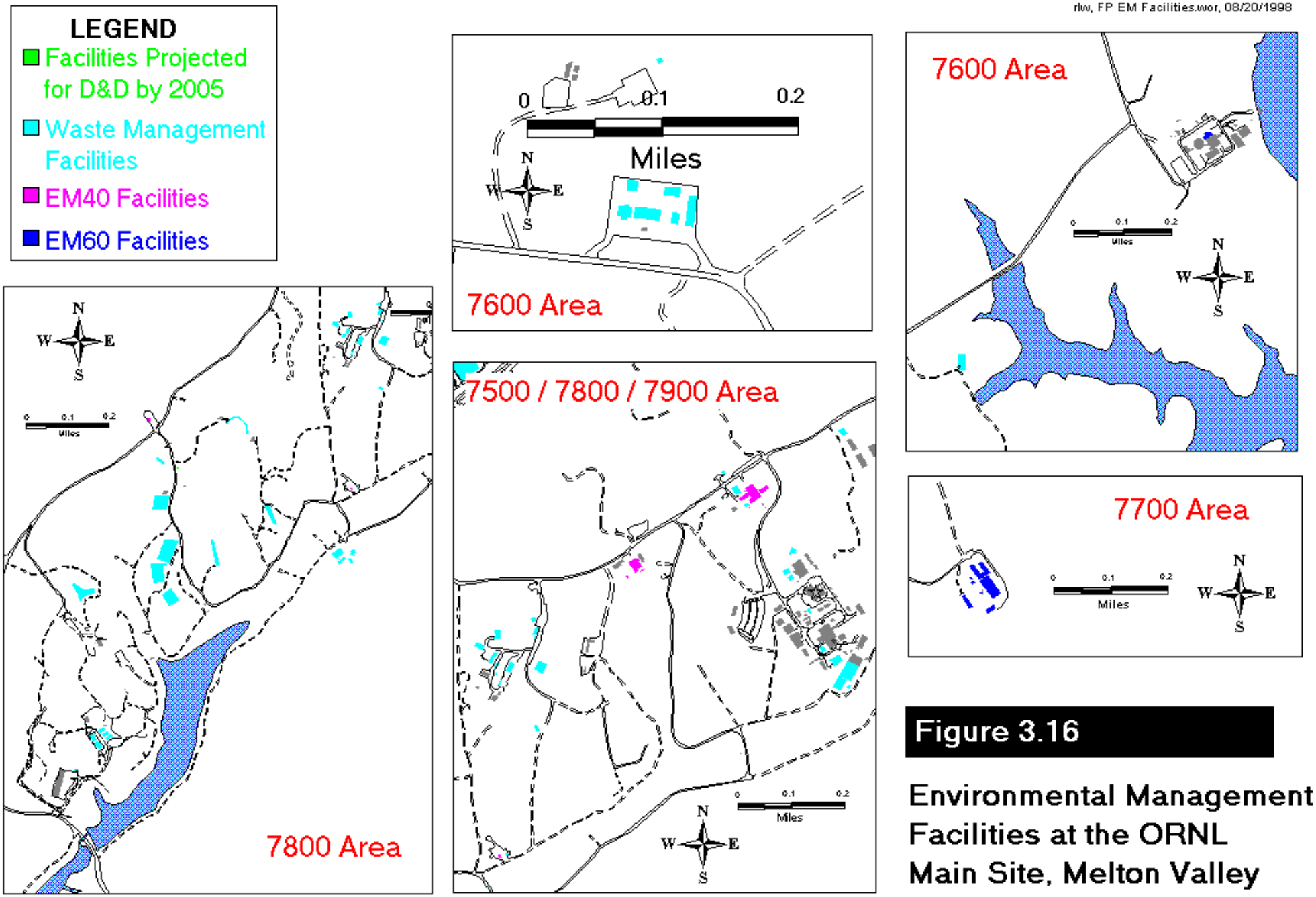


Figure 3.15

Environmental Management Facilities at the ORNL Main Site, Bethel Valley

rlw, FP EM Facilities.wor, 08/20/1998



Maps prepared utilizing ORNL Shared Data Initiative information.

Figure 3.16

Environmental Management Facilities at the ORNL Main Site, Melton Valley

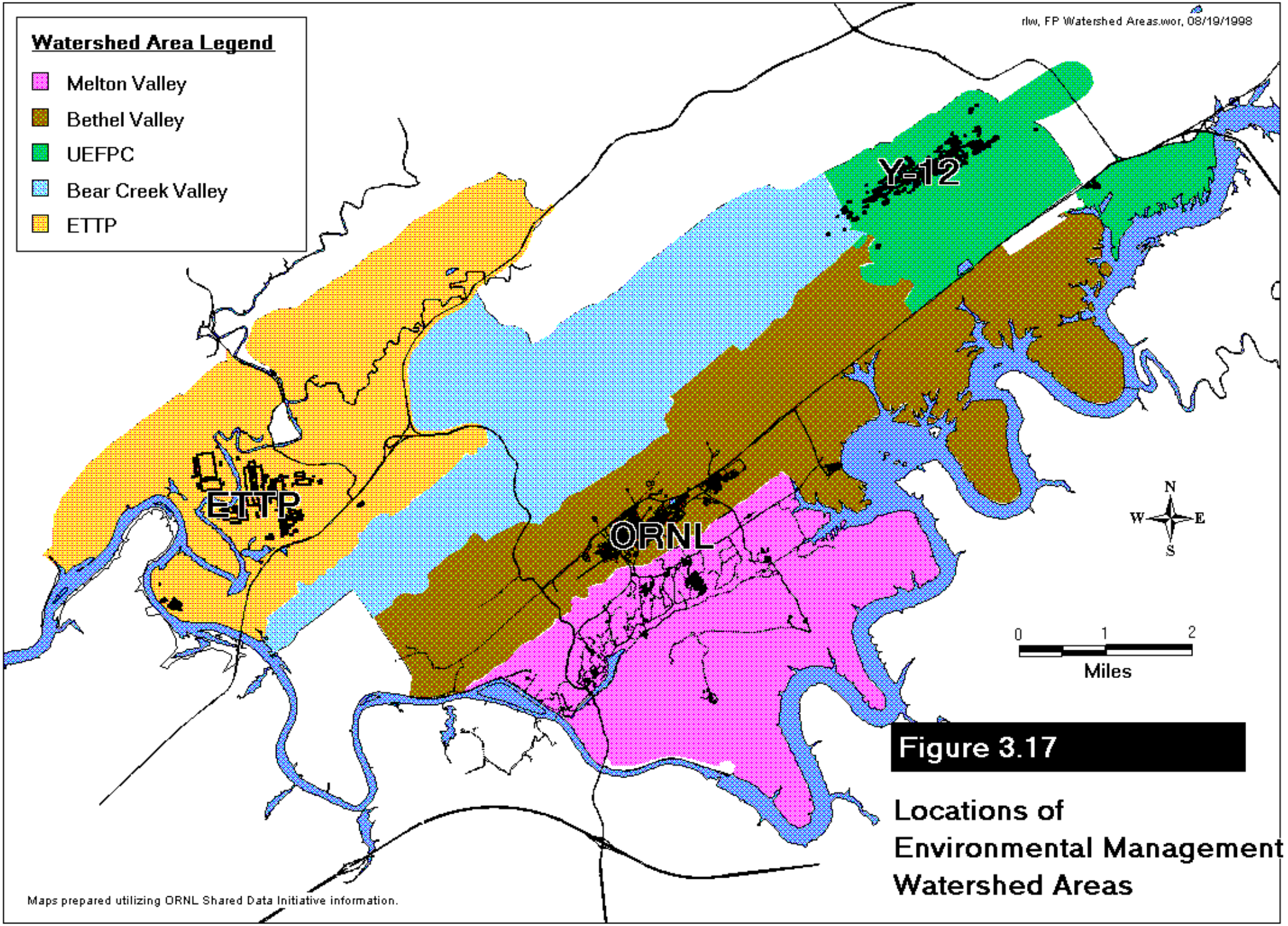
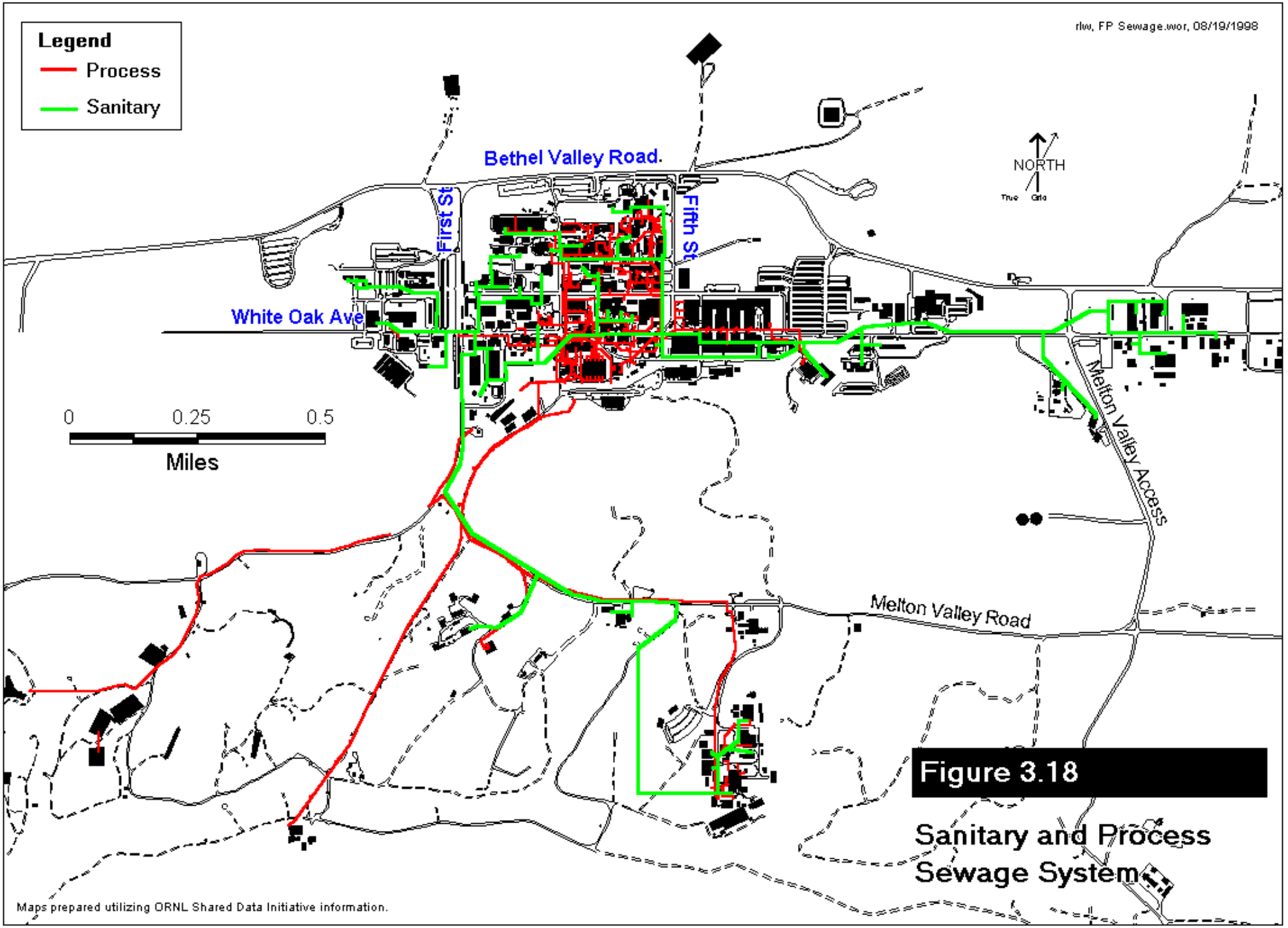


Figure 3.17

Locations of Environmental Management Watershed Areas


Legend
Process
Sanitary
rlw, FP Sewage.wor, 08/19/1998
Bethel Valley Road.
First St
Fifth St
White Oak Ave
NORTH
True
Grid
0
0.25
0.5
Miles
Melton Valley Access
Melton Valley Road
Figure 3.18
Sanitary and Process Sewage System
Maps prepared utilizing ORNL Shared Data Initiative information.

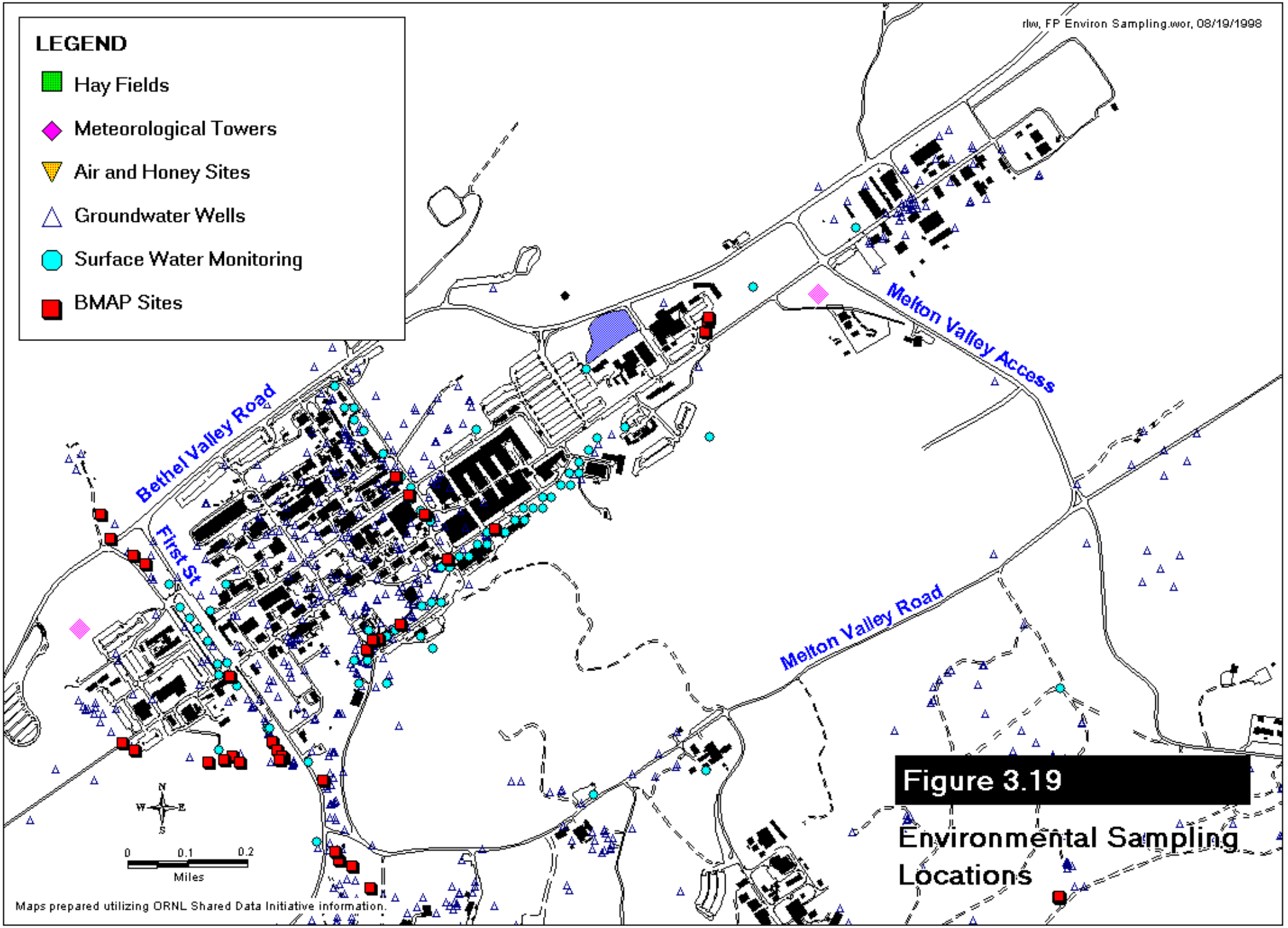


Figure 3.19

Environmental Sampling Locations

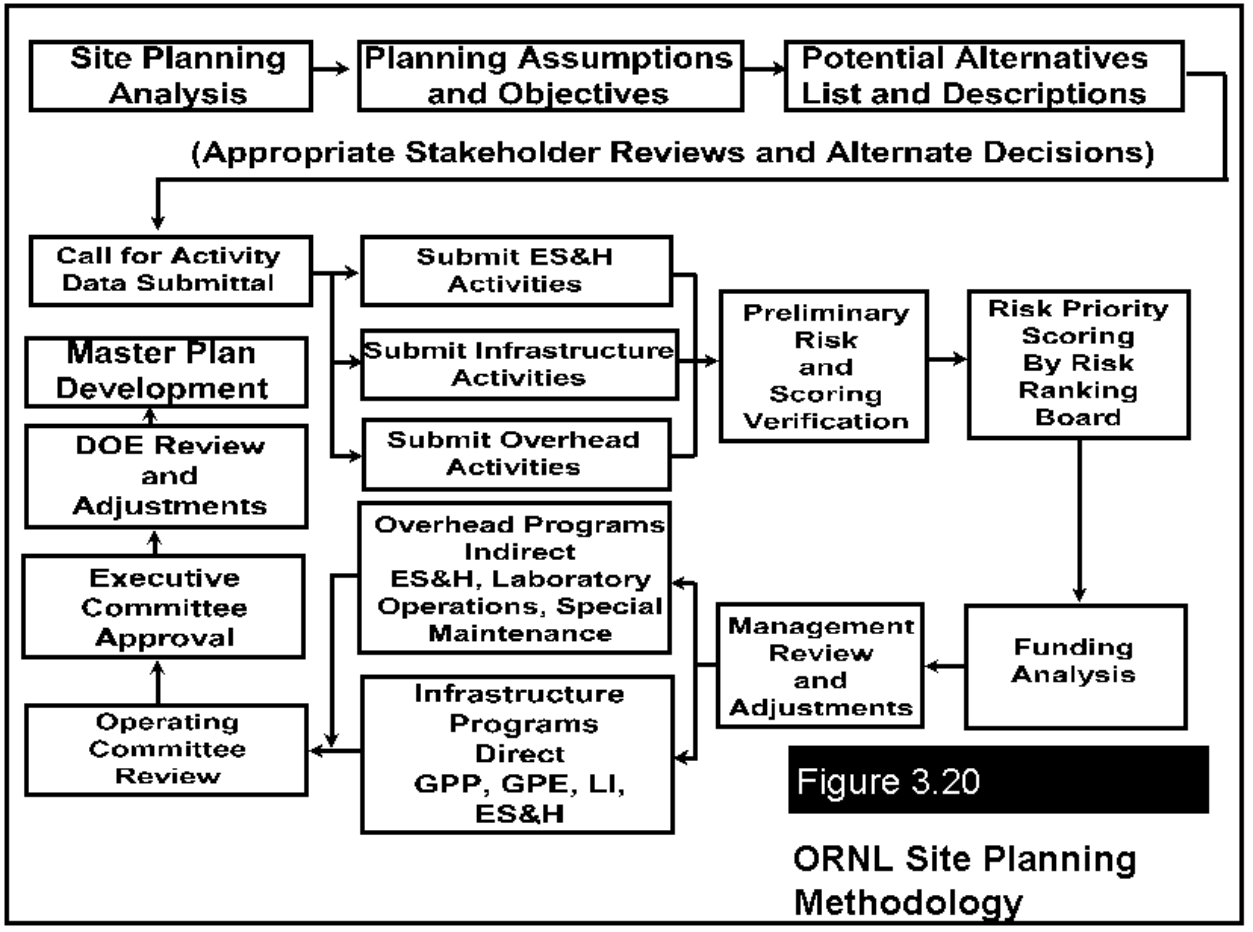
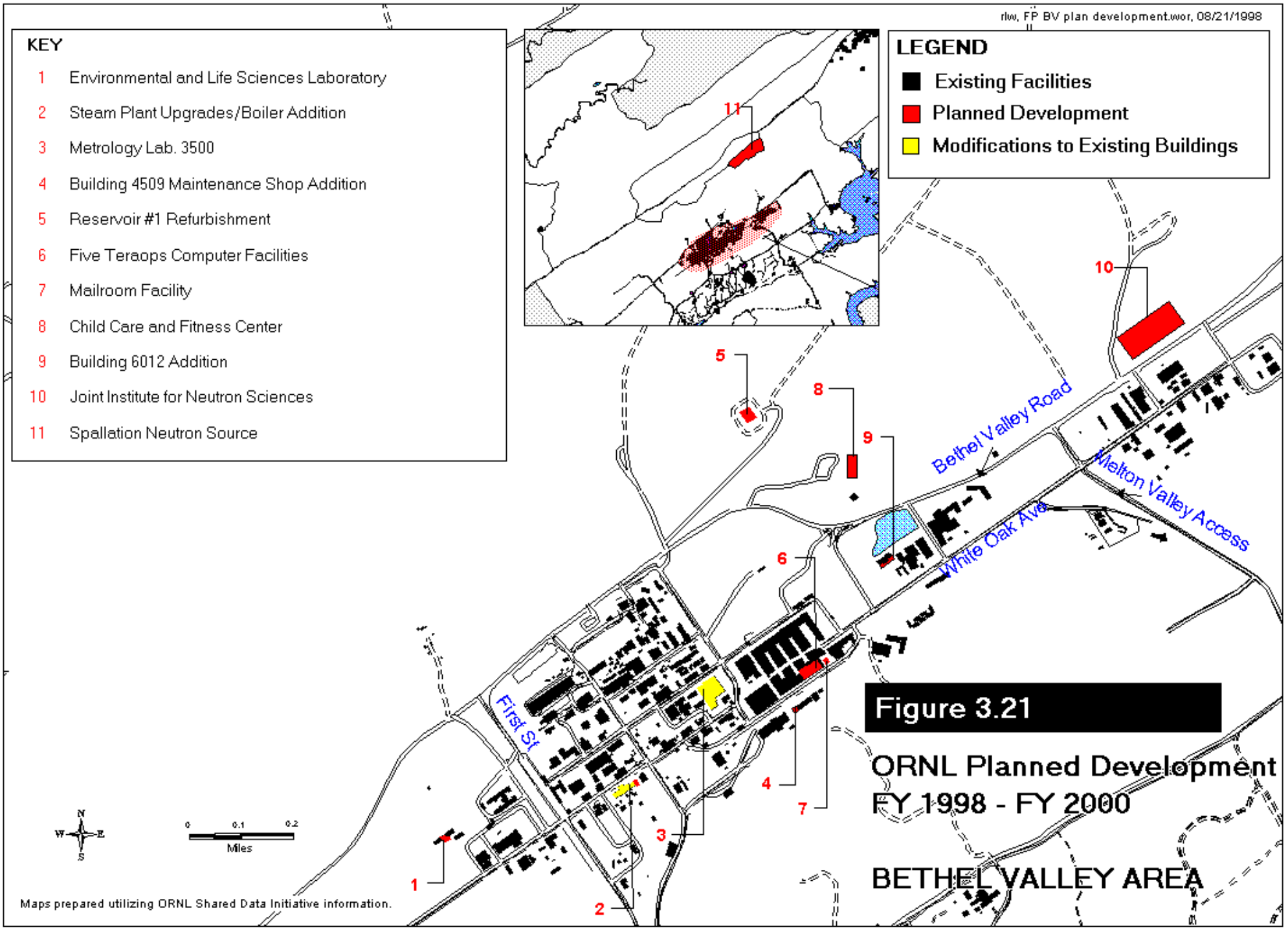


Figure 3.20

ORNL Site Planning Methodology


rlw, FP BV plan development.wor, 08/21/1998
KEY
1 Environmental and Life Sciences Laboratory
2 Steam Plant Upgrades/Boiler Addition
3 Metrology Lab. 3500
4 Building 4509 Maintenance Shop Addition
5 Reservoir #1 Refurbishment
6 Five Teraops Computer Facilities
7 Mailroom Facility
8 Child Care and Fitness Center
9 Building 6012 Addition
10 Joint Institute for Neutron Sciences
11 Spallation Neutron Source
LEGEND
Existing Facilities
Planned Development
Modifications to Existing Buildings
Bethel Valley Road
Melton Valley Access
White Oak Ave
First St
N
W
E
S
0 0.1 0.2
Miles
Maps prepared utilizing ORNL Shared Data Initiative information.
Figure 3.21
ORNL Planned Development
FY 1998 - FY 2000
BETHEL VALLEY AREA

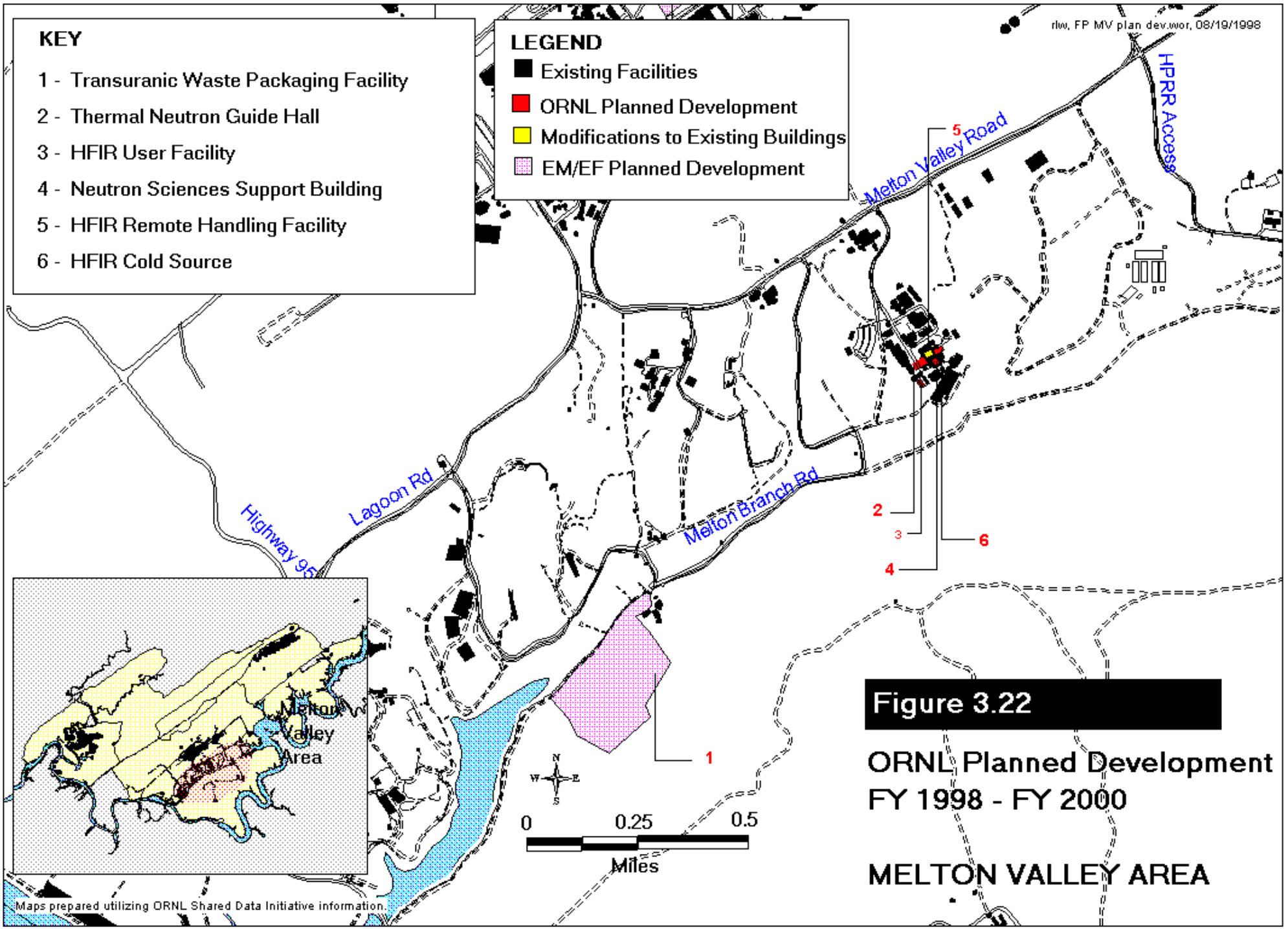
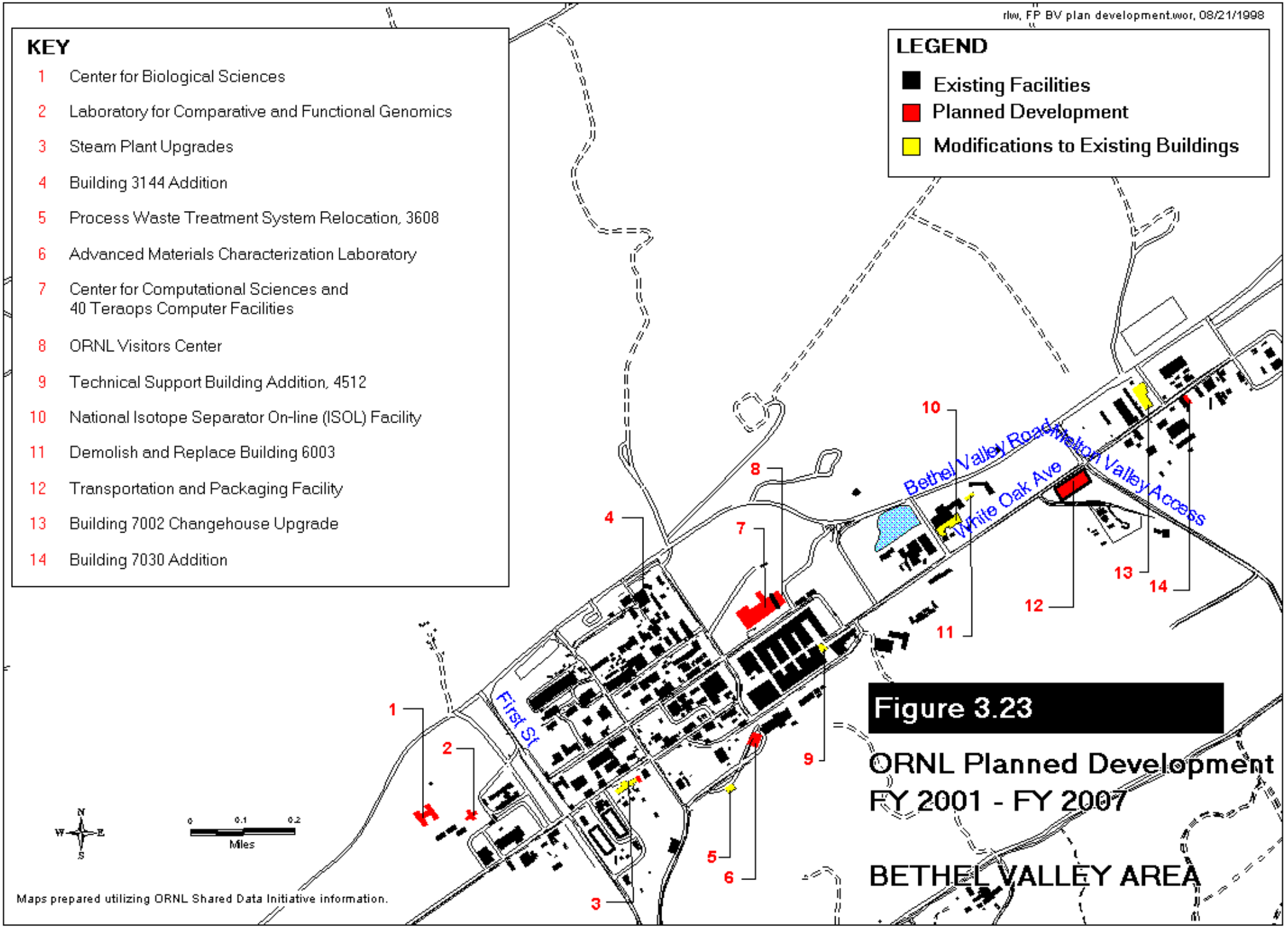
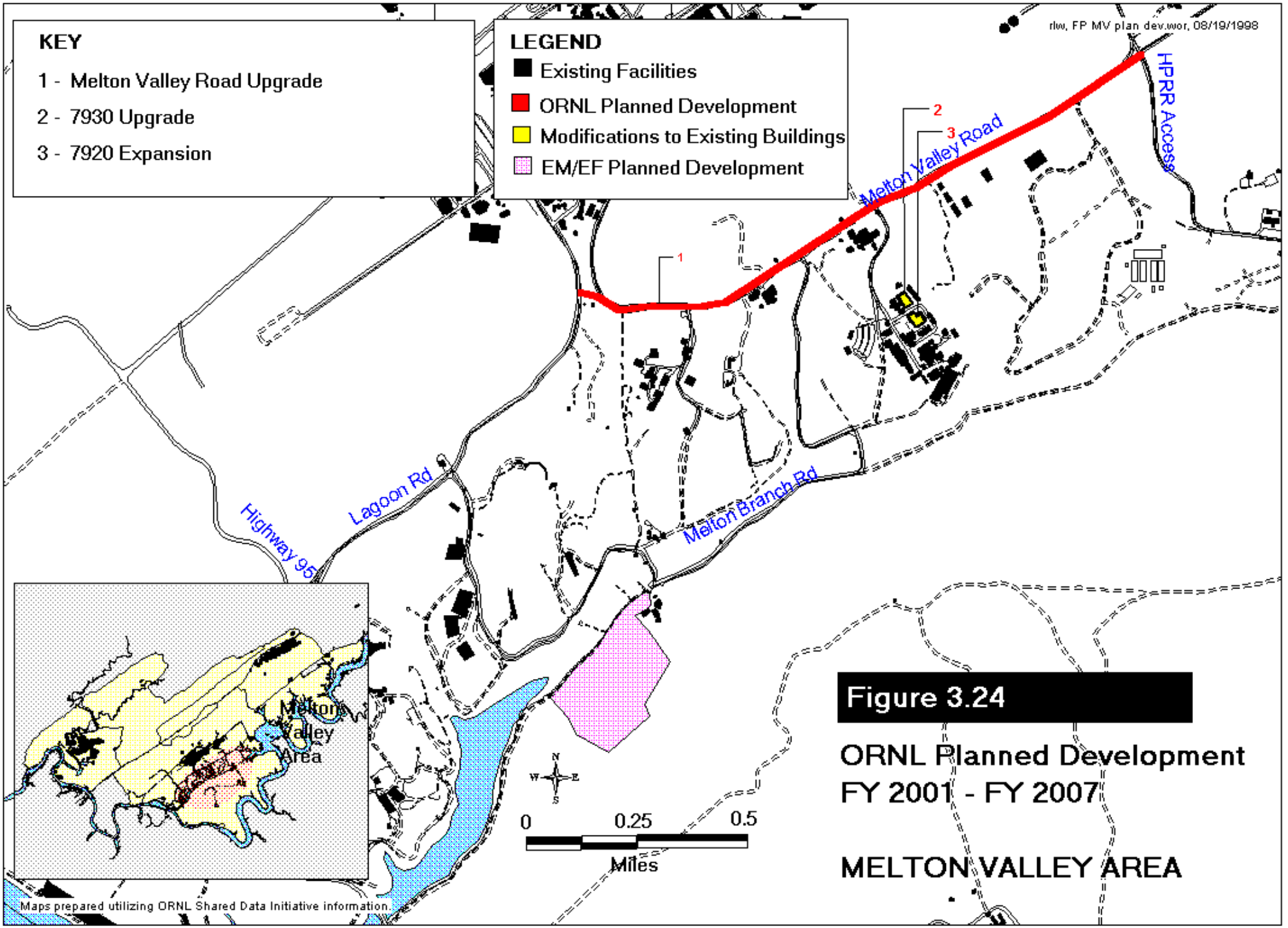


Figure 3.22

ORNL Planned Development FY 1998 - FY 2000

MELTON VALLEY AREA


rlw, FP BV plan development.wor, 08/21/1998
KEY
1 Center for Biological Sciences
2 Laboratory for Comparative and Functional Genomics
3 Steam Plant Upgrades
4 Building 3144 Addition
5 Process Waste Treatment System Relocation, 3608
6 Advanced Materials Characterization Laboratory
7 Center for Computational Sciences and 40 Teraops Computer Facilities
8 ORNL Visitors Center
9 Technical Support Building Addition, 4512
10 National Isotope Separator On-line (ISOL) Facility
11 Demolish and Replace Building 6003
12 Transportation and Packaging Facility
13 Building 7002 Changehouse Upgrade
14 Building 7030 Addition
LEGEND
Existing Facilities
Planned Development
Modifications to Existing Buildings
Bethel Valley Road
White Oak Ave
Melton Valley Access
First St
N
W
E
S
0 0.1 0.2
Miles
Maps prepared utilizing ORNL Shared Data Initiative information.
Figure 3.23
ORNL Planned Development
FY 2001 - FY 2007
BETHEL VALLEY AREA


KEY
1 - Melton Valley Road Upgrade
2 - 7930 Upgrade
3 - 7920 Expansion
LEGEND
Existing Facilities
ORNL Planned Development
Modifications to Existing Buildings
EM/EF Planned Development
rlw, FP MV plan dev.wor, 08/19/1998
Melton Valley Road
HPRR Access
Highway 95
Lagoon Rd
Melton Branch Rd
1
2
3
Melton Valley Area
N
W
E
S
0
0.25
0.5
Miles
Maps prepared utilizing ORNL Shared Data Initiative information.
Figure 3.24
ORNL Planned Development
FY 2001 - FY 2007
MELTON VALLEY AREA

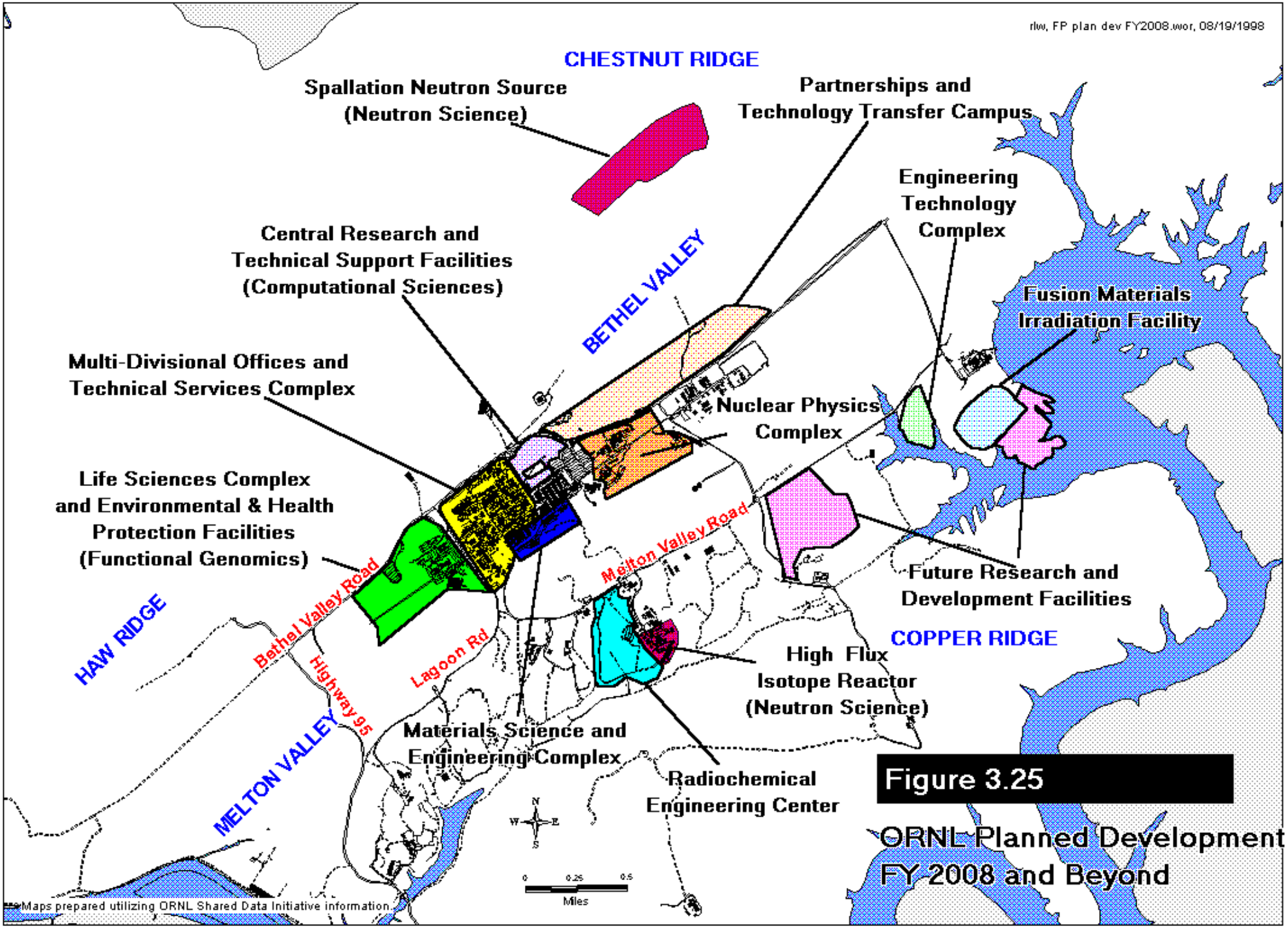
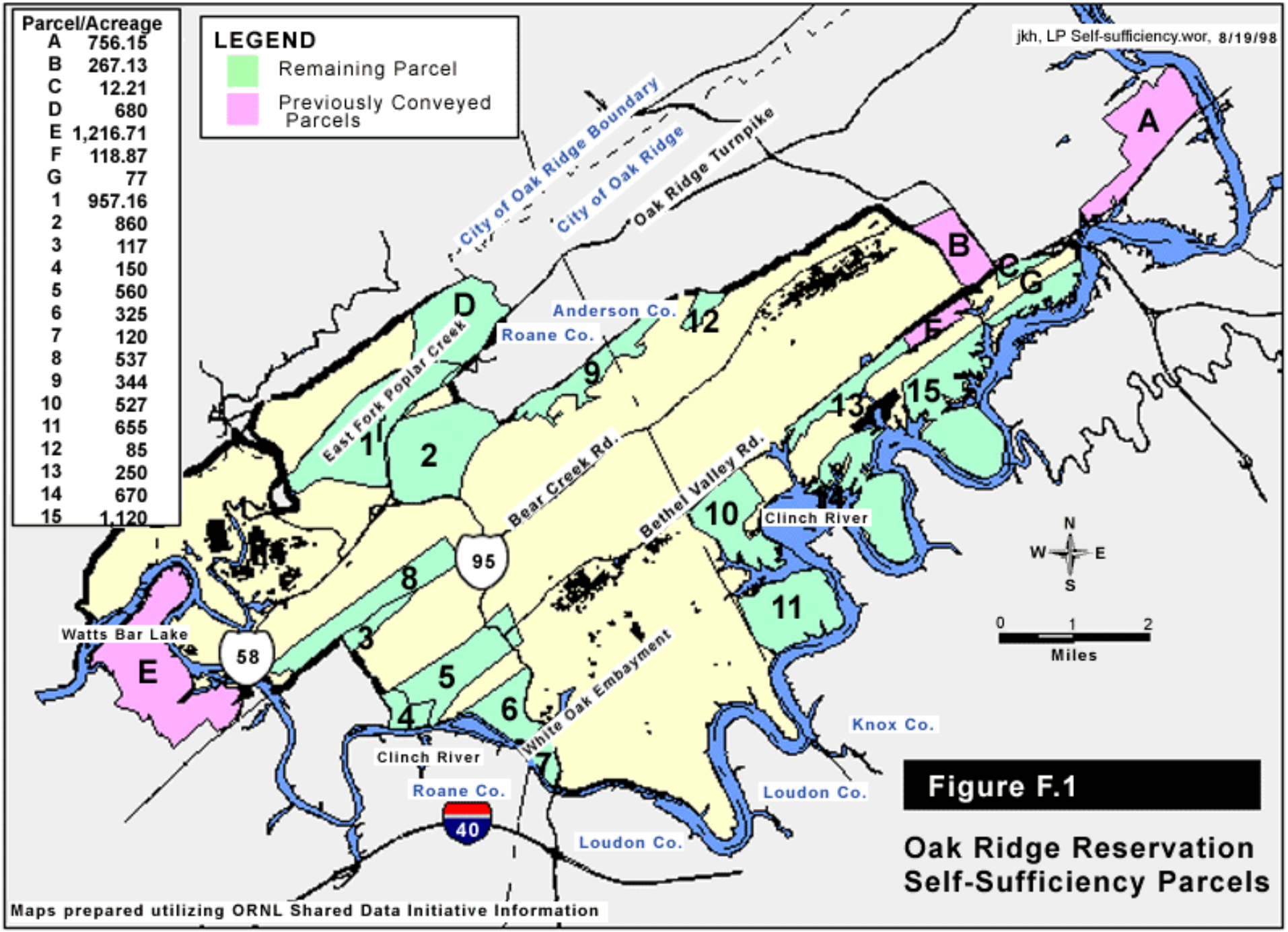


Figure 3.25

ORNL Planned Development
FY 2008 and Beyond


Parcel/Acreage
A 756.15
B 267.13
C 12.21
D 680
E 1,216.71
F 118.87
G 77
1 957.16
2 860
3 117
4 150
5 560
6 325
7 120
8 537
9 344
10 527
11 655
12 85
13 250
14 670
15 1,120
LEGEND
Remaining Parcel
Previously Conveyed Parcels
jkh, LP Self-sufficiency.wor, 8/19/98
City of Oak Ridge Boundary
City of Oak Ridge
Oak Ridge Turnpike
Anderson Co.
Roane Co.
East Fork Poplar Creek
Bear Creek Rd.
Bethel Valley Rd.
Clinch River
Watts Bar Lake
White Oak Embayment
Knox Co.
Loudon Co.
Roane Co.
Clinch River
Loudon Co.
95
58
40
N
W
E
S
0 1 2
Miles
Figure F.1
Oak Ridge Reservation
Self-Sufficiency Parcels
Maps prepared utilizing ORNL Shared Data Initiative Information