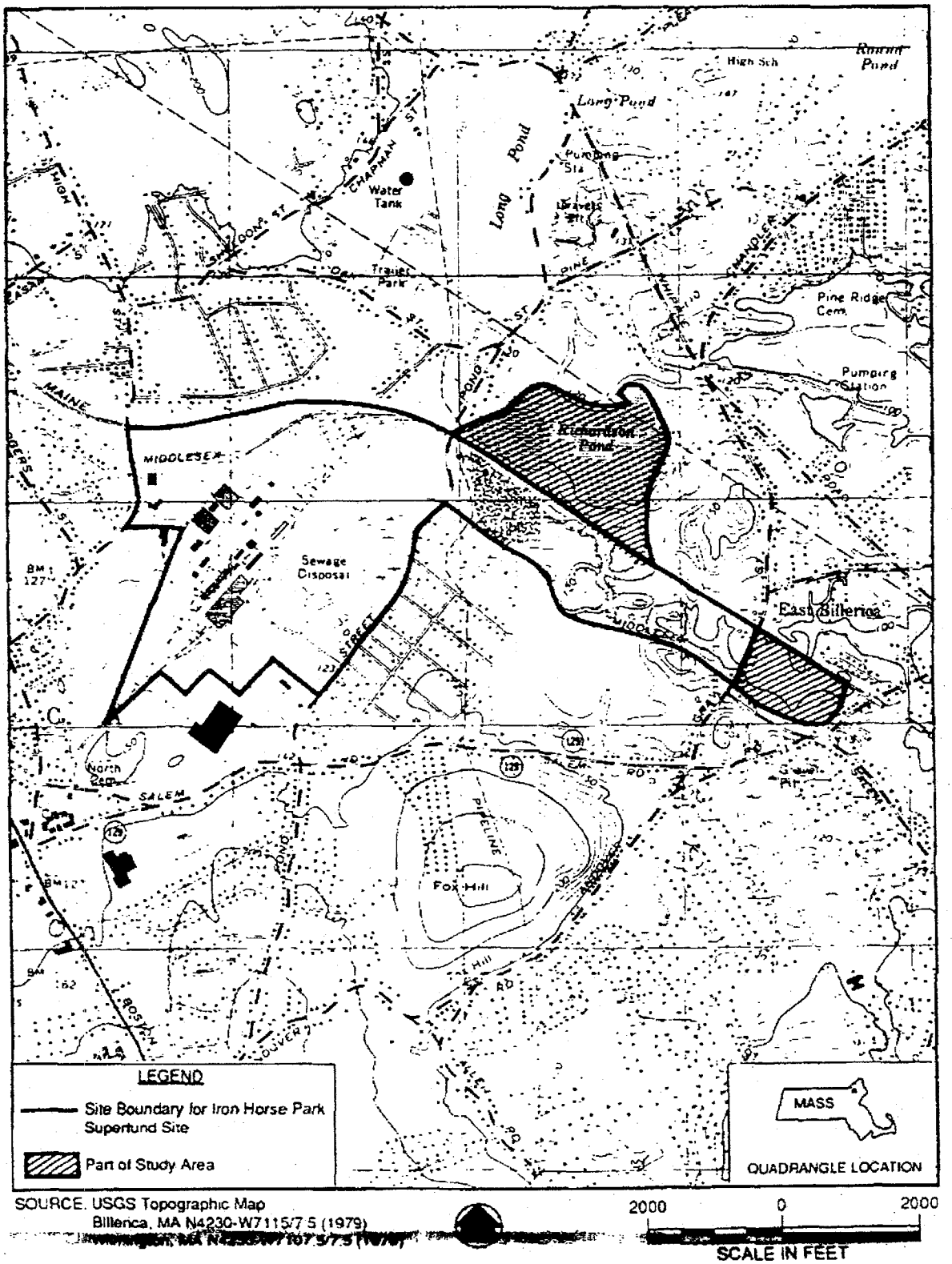
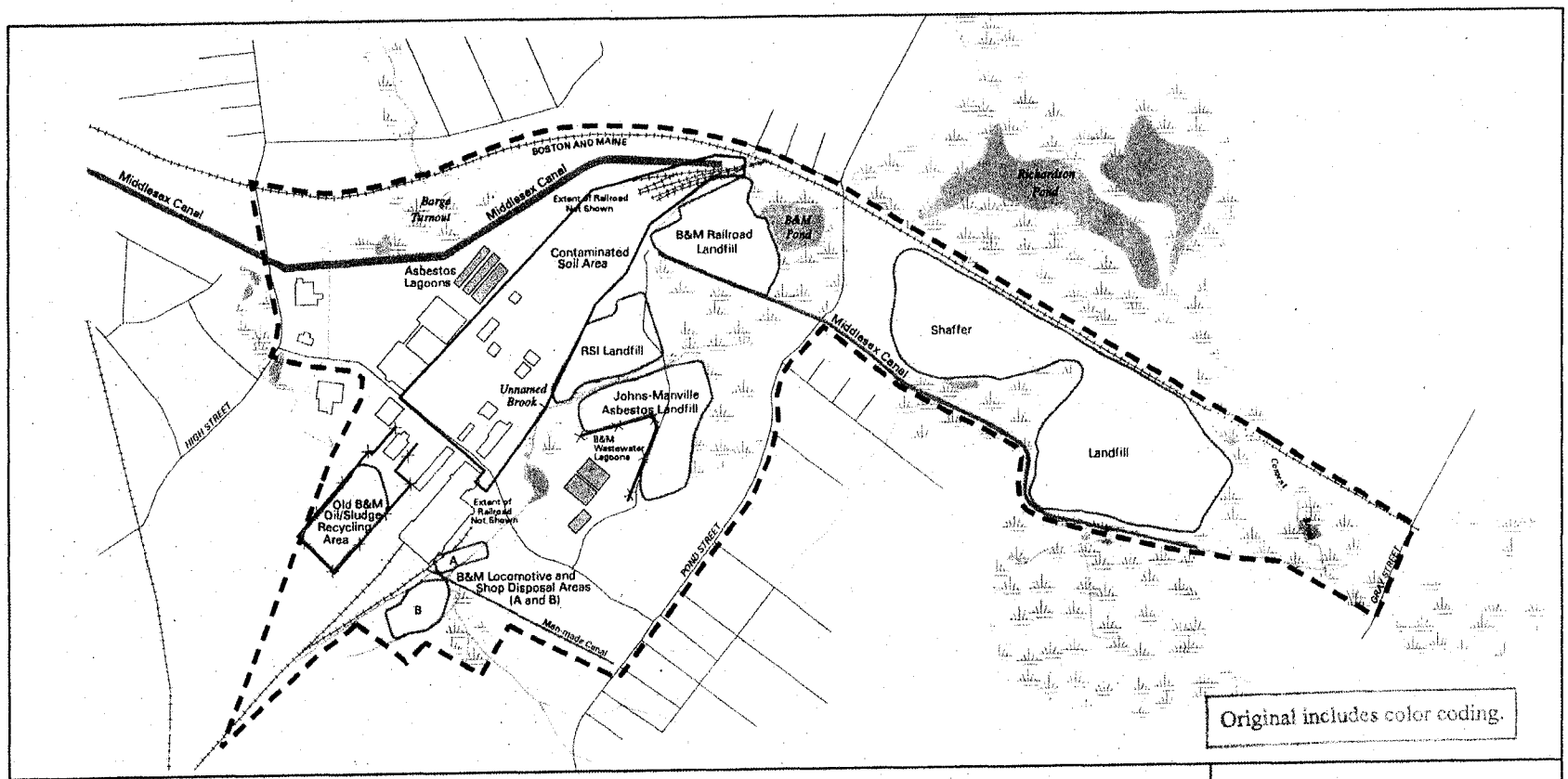
APPENDIX B: Figures



SOURCE. USGS Topographic Map
Billerica, MA N4230-W7115/7.5 (1979)
Wilmington, MA N4230-W7107.5/7.5 (1979)

FIGURE 1-1. GEOGRAPHICAL LOCATION OF THE IRON HORSE PARK SUPERFUND SITE



Original includes color coding.

LEGEND

- Road
- Railroad
- Stream
- Fence
- Disposal Area Boundary
- Study Area Boundary
- Iron Horse Site Boundary
- Surface Water
- Wetland
- Lagoon
- Building
- Canal

N
W E
S

800 0 800
SCALE IN FEET

Locations for All Features Shown are Approximate.
Extent of Wetland and Surface Waters are Limited to Areas Confirmed During Wetlands Reconnaissance on July 15, 1993 and November 8, 1994

FIGURE 1-2. SITE BASE MAP

Iron Horse Park Superfund Site
3rd Operable Unit
North Billerica, MA

fig1-a.aml October 1999

Metcalf & Eddy

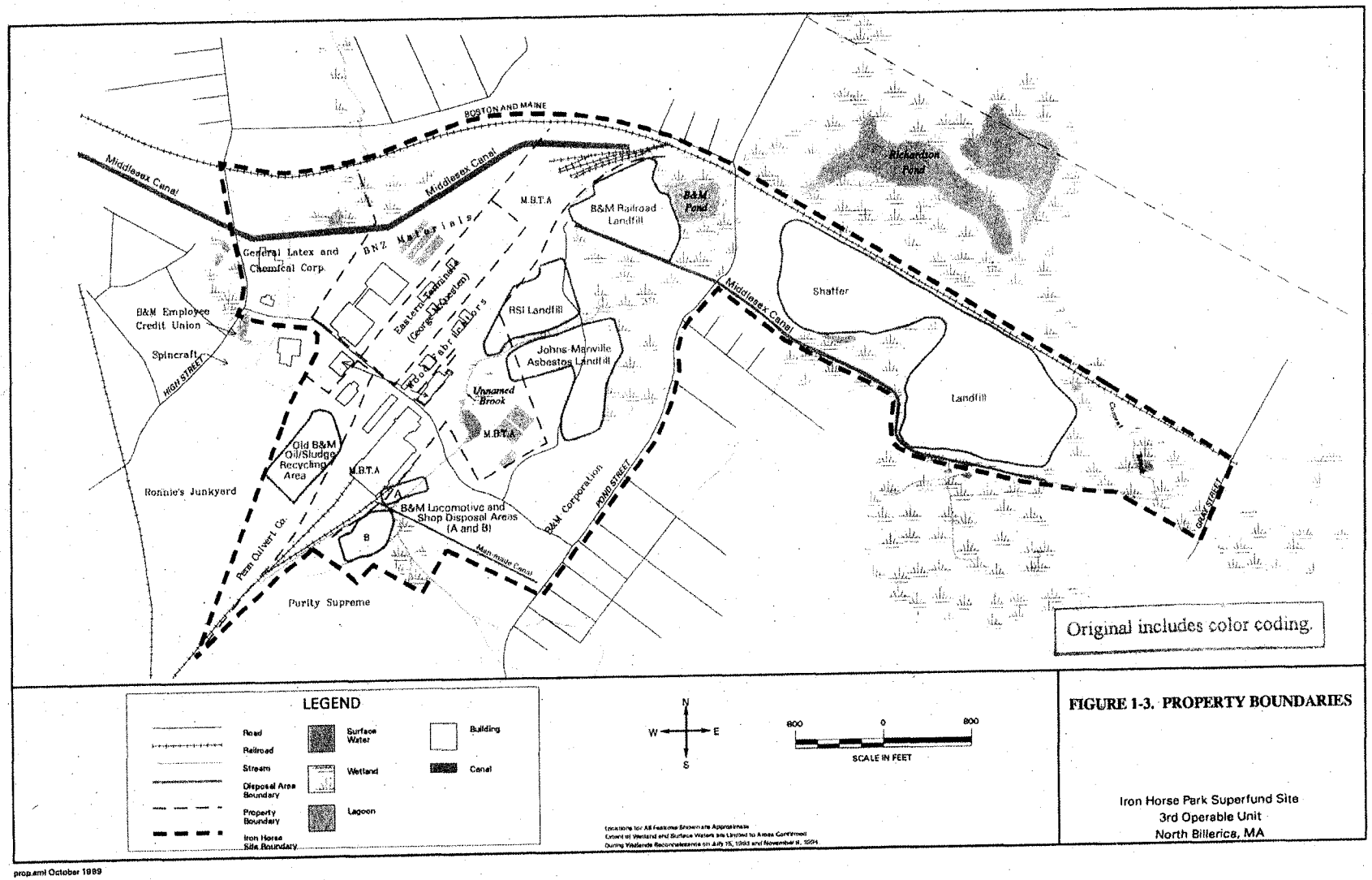
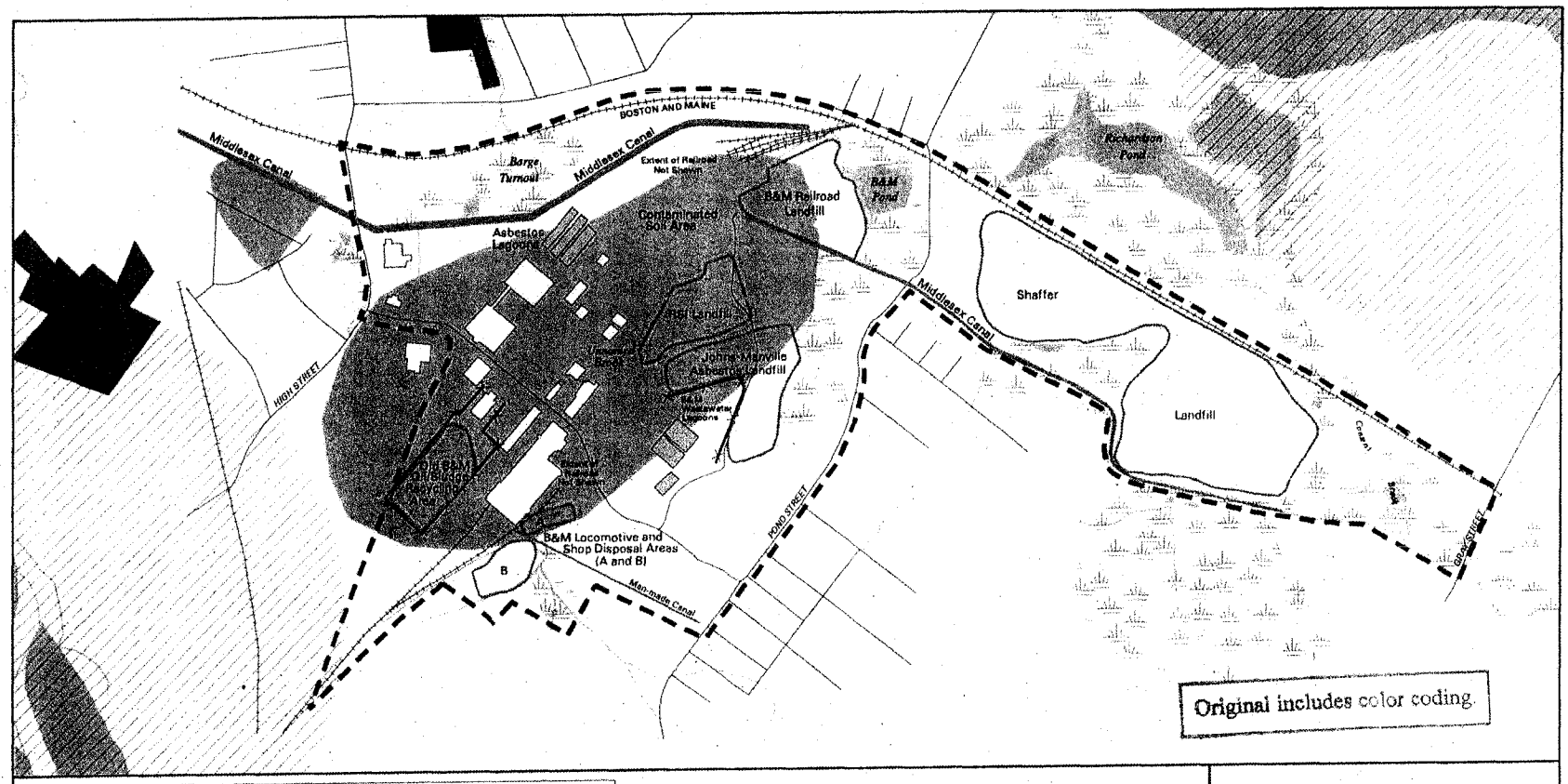


FIGURE 1-3. PROPERTY BOUNDARIES

Iron Horse Park Superfund Site
3rd Operable Unit
North Billerica, MA

prop.aml October 1989

Metcalf & Eddy



LEGEND

- Road
- Railroad
- Stream
- Fence
- Disposal Area Boundary
- Iron Horse Site Boundary
- Surface Water
- Wetland
- Lagoon
- Building
- Canal
- Medium Yield Aquifer
- Open Space
- Interim Wellhead Protection Area

N W E S

800 0 800
SCALE IN FEET

Locations for All Features Shown are Approximate. Extent of Wetland and Surface Waters are Limited to Areas Confirmed During Wetlands Reconnaissance on July 15, 1993, and November 8, 1994. MASSGIS DATA SOURCES: AQUIFERS: USGS Water Resources Div hydrologic atlas series manuscript, 1:48,000, 1977 to 1988. INTERIM WELLHEAD PROTECTION AREAS: MASSDEP/DWS, 1:25,000. OPEN SPACE: MA DFWELE/MASSGIS, 1:25,000, 1993.

FIGURE 1-4. AQUIFERS, INTERIM WELLHEAD PROTECTION AREAS AND OPEN SPACES

Iron Horse Park Superfund Site
3rd Operable Unit
North Billerica, MA

massgis.aml October 1999

Metcalf & Eddy

Figure E-1 CONCEPTUAL SITE MODEL FOR CONTAMINATED GROUNDWATER, SURFACE WATER, AND SEDIMENT

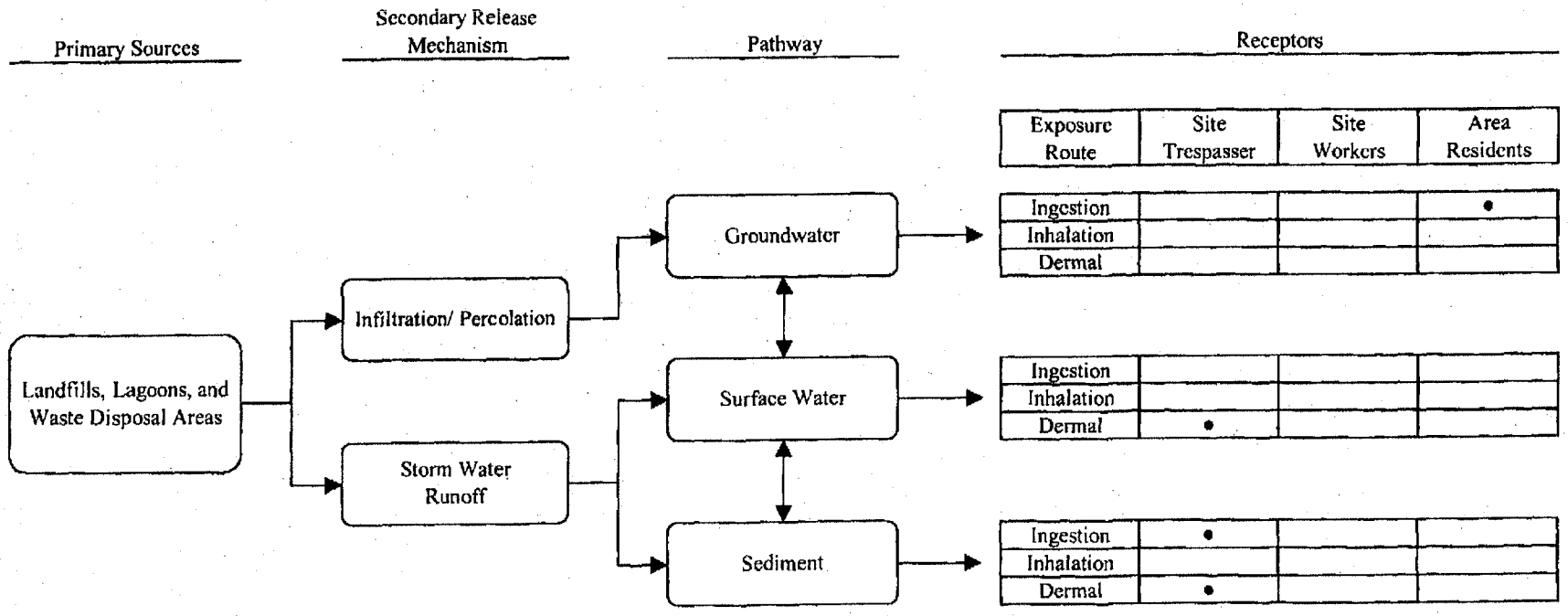
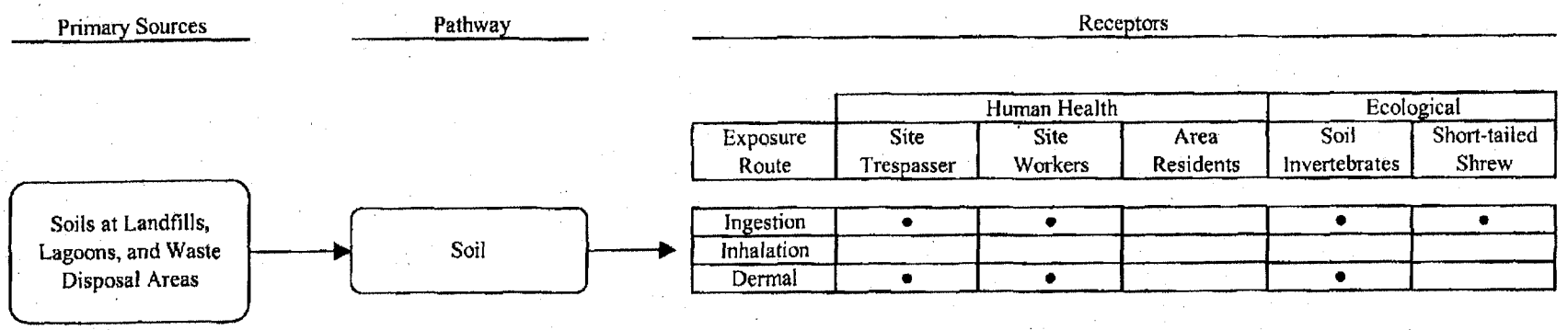


Figure E-2 CONCEPTUAL SITE MODEL FOR CONTAMINATED SOIL



	Human Health			Ecological	
Exposure Route	Site Trespasser	Site Workers	Area Residents	Soil Invertebrates	Short-tailed Shrew
Ingestion	•	•		•	•
Inhalation					
Dermal	•	•		•	

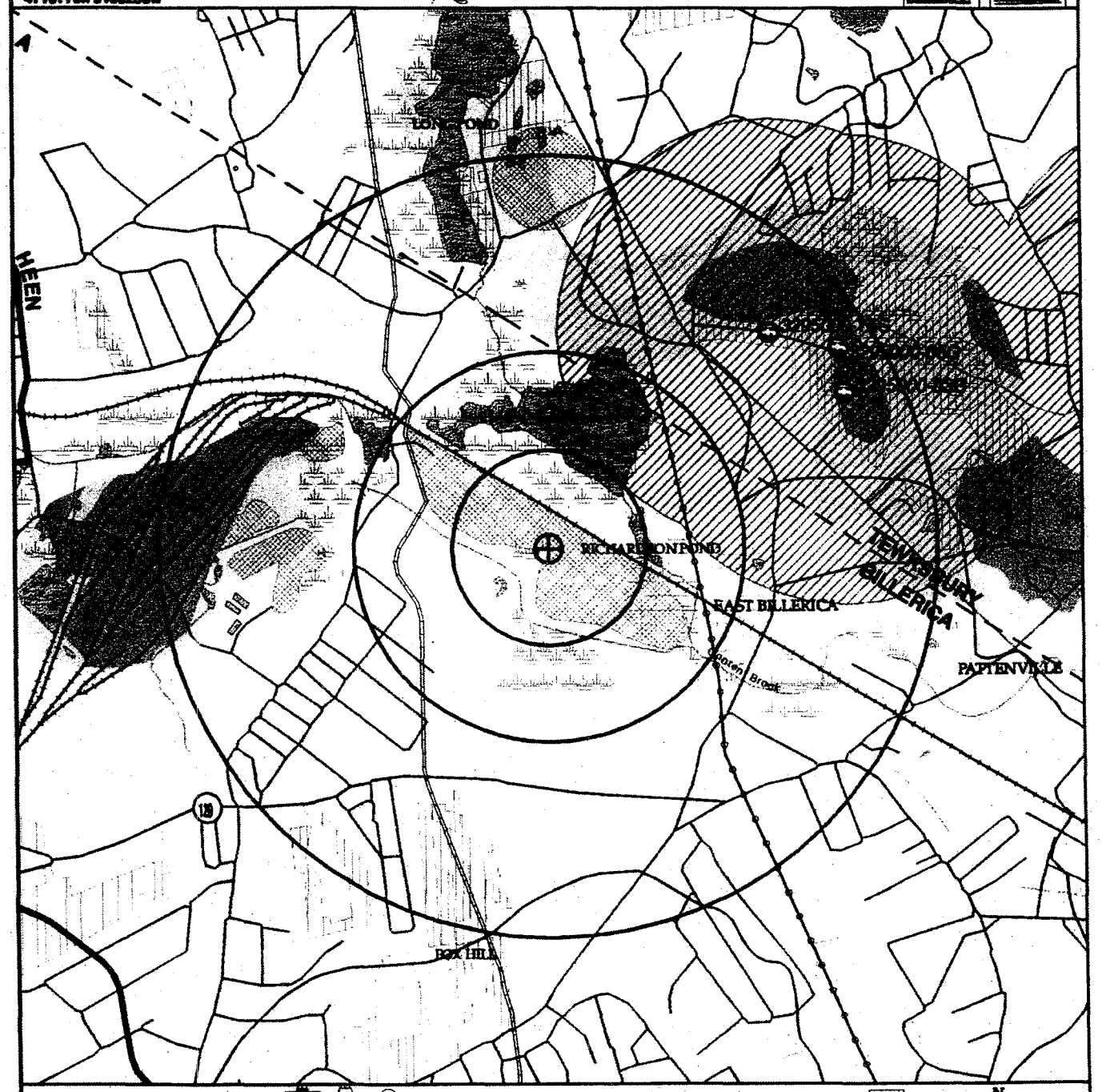
MA DEP - Bureau of Waste Site Cleanup

Preliminary Assessment Map: 1, 1/2, & 1/4 Mile Radii

SITE NAME:
Iron Horse Park OU#2
3-0240-02
Shaller Landfill
Billerica
4716775n 315525ew

Site Location

The information shown on this map is the best available at the date of printing. Please refer to the data source descriptions document.



Roads: Interstate,US,State,Street,Trail
Boundaries: Municipal,County,DEP Region
Tiers; Powerline; Pipeline
Drainage Basins: Major,Sub
Streams: Perennial,Intermittent,Aqueduct
Potentially Productive Aquifers: Medium Yield,High Yield
Non-Potential Drinking Water Source Area: Medium,High Yield
EPA Designated Sole Source Aquifer
Public Water Supplies: Ground,Surface,Non Community
Approved Zone2; IWPA;
Hydrography: Water Features,Public Surface Water Supply
Wetlands: Fresh,Salt,MHESP Wetlands Habitat
Protected Open Space; ACEC
DEP Permitted Solid Waste Facilities; Certified Vernal Pools

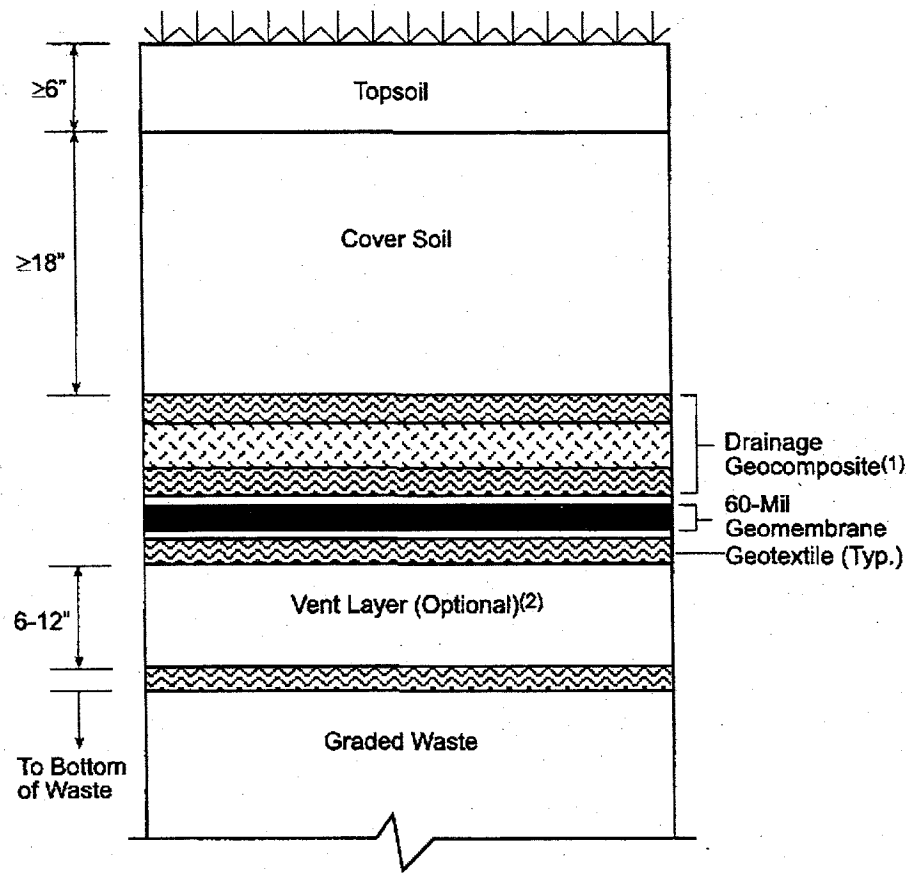
N W E S

SCALE 1:20000

0 1/2 1 MILES
0 1 2 KILOMETERS

April 23, 1998

F-1



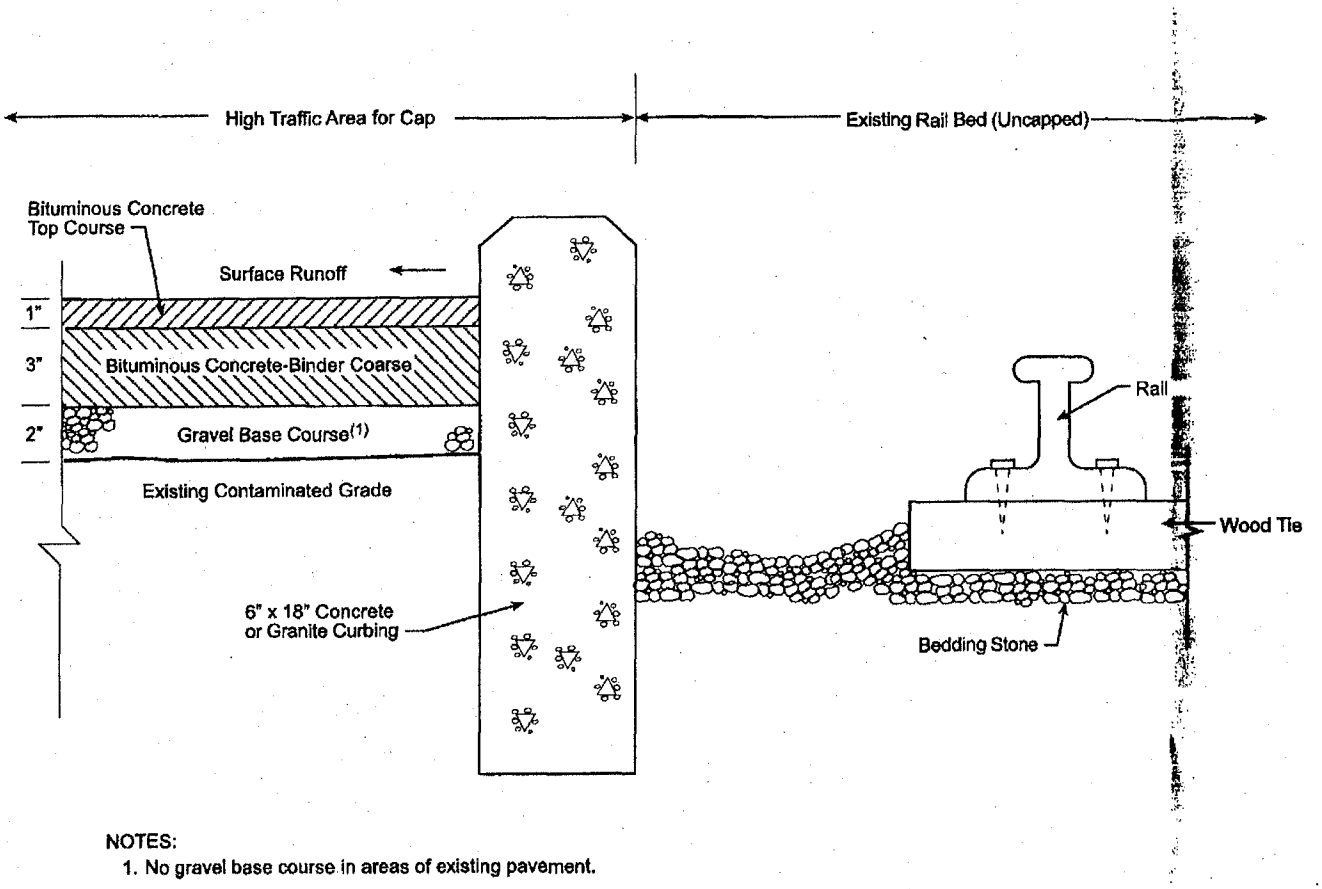
SECTION VIEW: SUBTITLE D
SOLID WASTE CAP

NOTES:

1. Drainage Geocomposite to be two non-woven geotextiles heat bonded to a drain core. Minimum hydraulic transmissivity of 3×10^{-4} m^2/sec.
2. Used if gas generation from waste is possible.

FIGURE L-2. HORIZONTAL CONTAINMENT SINGLE BARRIER LANDFILL CAP

01a/6413j

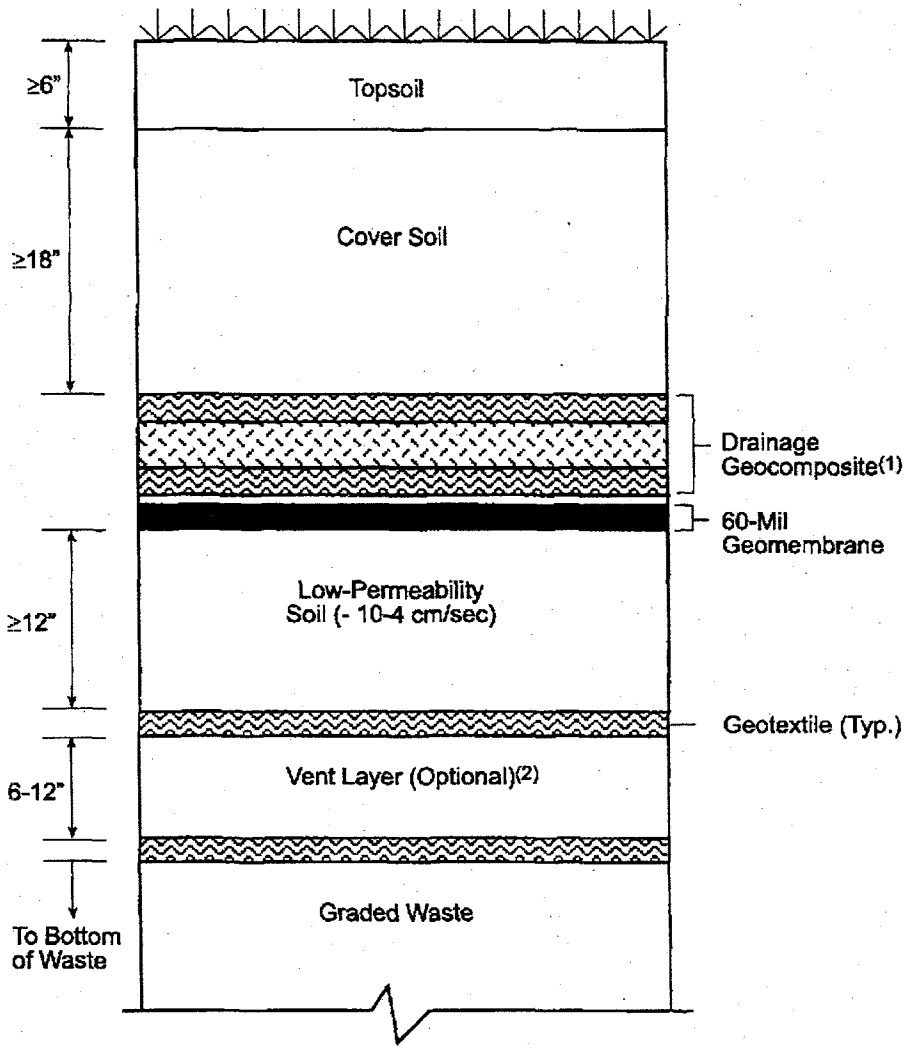


NOTES:

1. No gravel base course in areas of existing pavement.

FIGURE L-3. HORIZONTAL CONTAINMENT - SINGLE BARRIER CAP

02/6413jp



SECTION VIEW: EPA REGION I
ALTERNATIVE CERCLA CAP

NOTES:

1. Drainage Geocomposite to be two non-woven geotextiles heat bonded to a drain core. Minimum hydraulic transmissivity of 3×10^{-4} m^2/sec.
2. Used if gas generation from waste is possible.

FIGURE L-1. HORIZONTAL CONTAINMENT COMPOSITE/DOUBLE BARRIER

01/6413jp