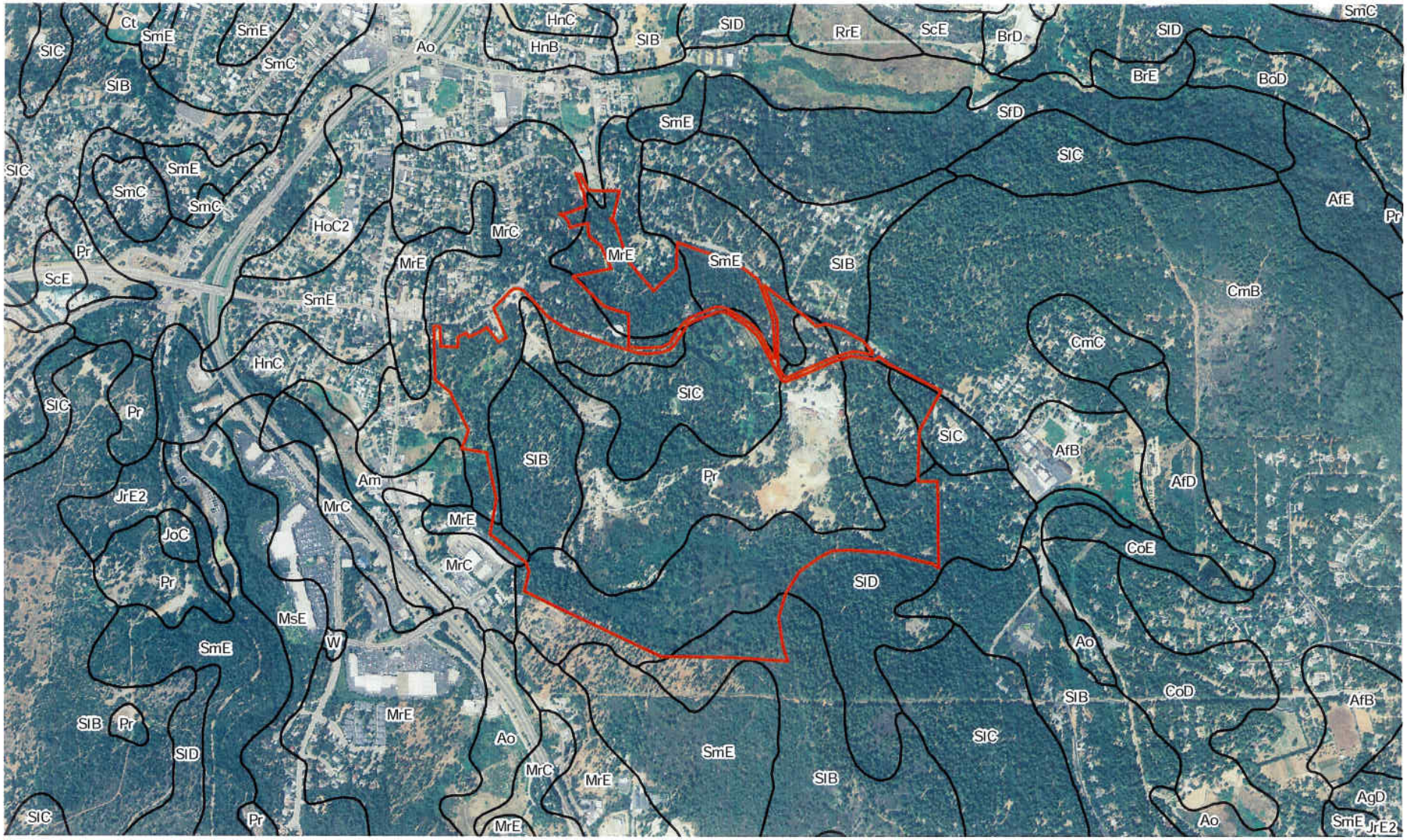


Project Area

Soil Map Unit

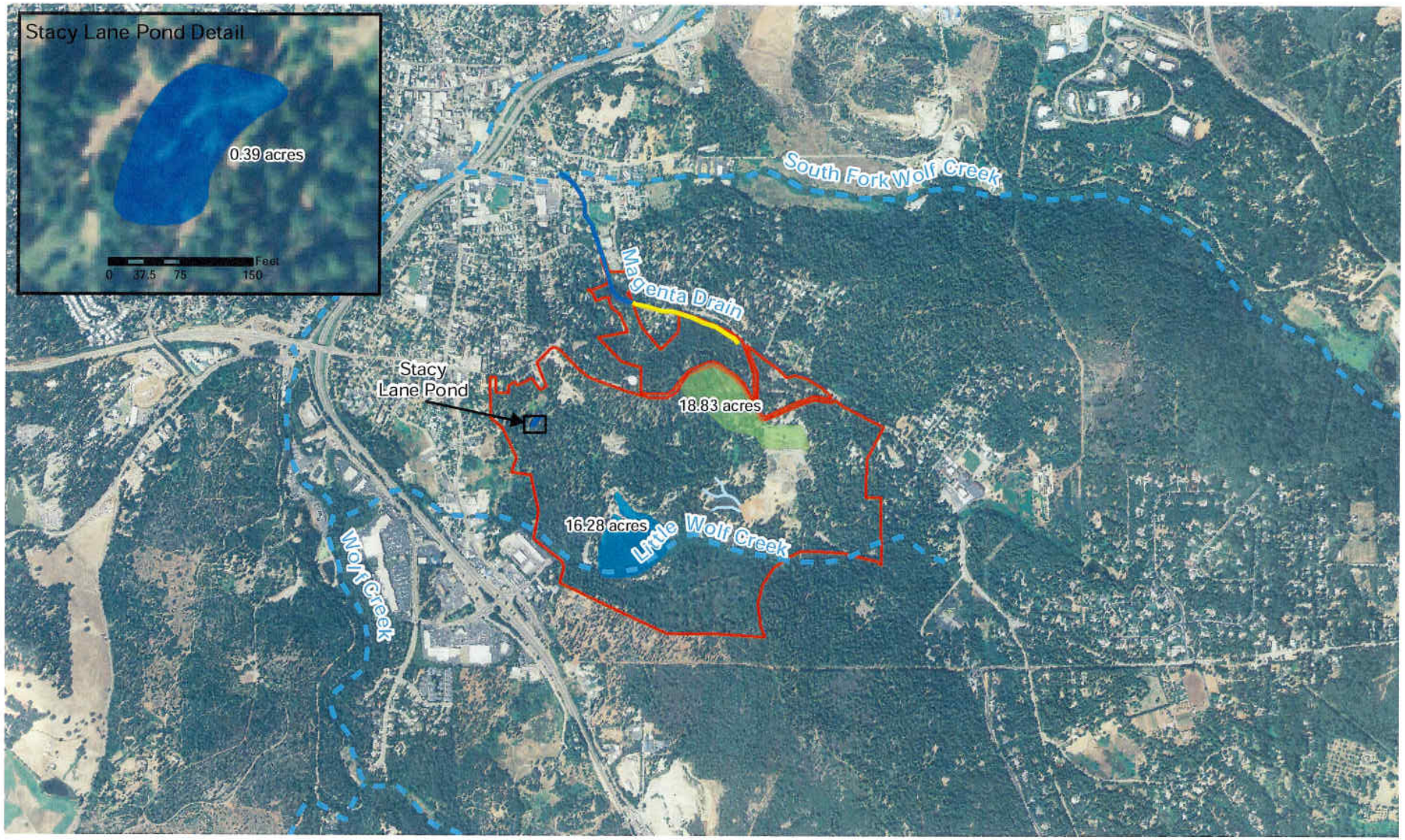
VESTRA

SOURCE: NAIP 2005

0 750 1,500 3,000 Feet

FIGURE 3
SOILS
EMPIRE MINE STATE
HISTORIC PARK
GRASS VALLEY, CALIFORNIA

P:\GIS\70806\BiologicalCharacterizationReport\70806_Figure4_Soils.mxd



Drainage Ditch
Subterranean Portion of Magenta Drain
Magenta Drain
Perennial Stream
Seasonal Pond
Dispersed Concrete Pools
Emergent Wetland
Project Area

N

Feet
0 1,000 2,000 4,000

VESTRA

SOURCE: NAIP 2005

FIGURE 4
AQUATIC AND
HYDROLOGIC FEATURES
EMPIRE MINE STATE
HISTORIC PARK
GRASS VALLEY, CALIFORNIA

P:\GIS\70806\BiologicalCharacterizationReport\70806_Figure4_Hydrology.mxd

Project Area
California Annual Grassland
Barren
Black Oak Series
Developed
Ponderosa Pine/Mixed Conifer Series
Arroyo Willow/White Alder Series
Arroyo Willow (Emergent Wetland)
Whiteleaf Manzanita Series

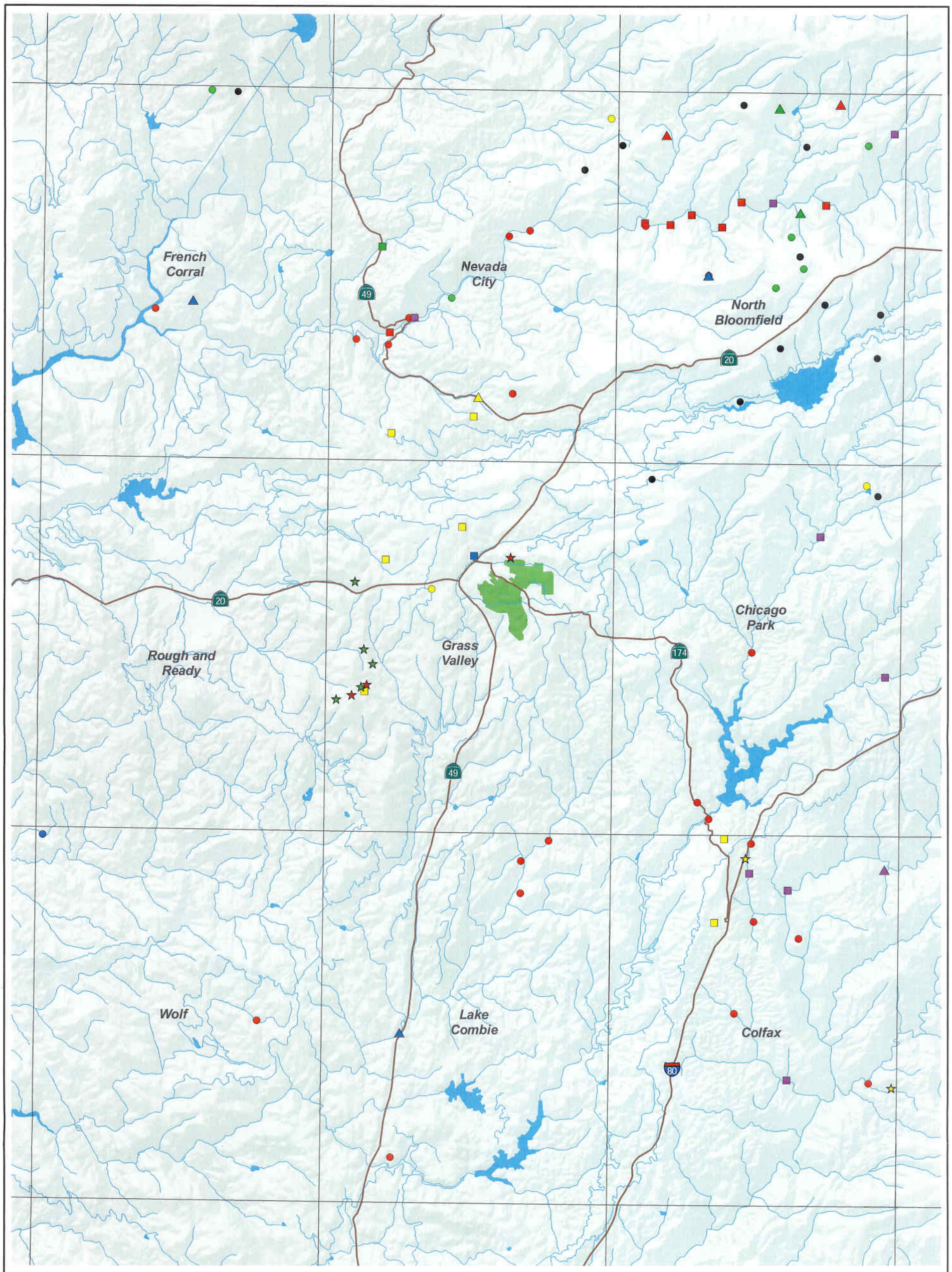
VESTRA

SOURCE: NAIP 2005

0 500 1,000 2,000 Feet

FIGURE 5
VEGETATION
EMPIRE MINE STATE
HISTORIC PARK
GRASS VALLEY, CALIFORNIA

P:\GIS\70806\BiologicalCharacterizationReport\70806_Figure6_Vegetation.mxd



- Spotted Owl Territory
- Brandegee's clarkia
- Brownish beaked-rush
- Butte County fritillary
- California black rail
- California red-legged frog
- Cantelow's lewisia
- Coast (California) horned lizard
- Elongate copper moss
- Follett's monardella
- Foothill yellow-legged frog
- Inundated bog-clubmoss
- Norris' beard moss
- Northern goshawk
- Northwestern pond turtle
- Pacific fisher
- Pine Hill flannelbush
- Red Hills soaproot
- Stebbins' morning-glory
- USGS 7.5' Quad Boundary
- Park Boundary

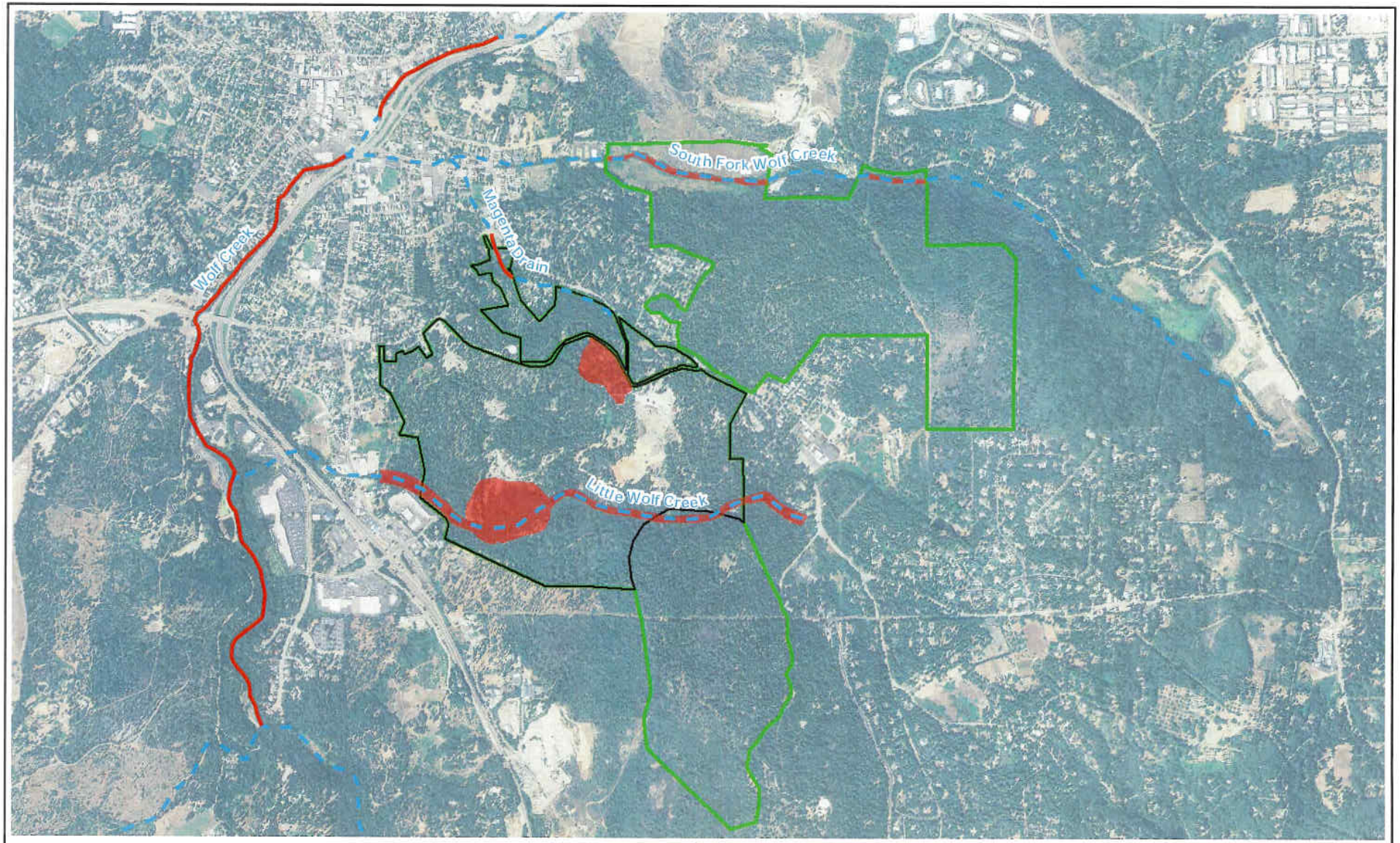
VESTRA

SOURCE: CNDDB SEPTEMBER 2008 EDITION

0 1.25 2.5 5 Miles

FIGURE 6
CNDDB OCCURRENCES
EMPIRE MINE STATE
HISTORIC PARK
GRASS VALLEY, CALIFORNIA

P:\GIS\70806\BiologicalCharacterizationReport\70806_Figure7_CNDDB.mxd



Creek
California Red-Legged Frog Survey Area
Project Area
Park Boundary

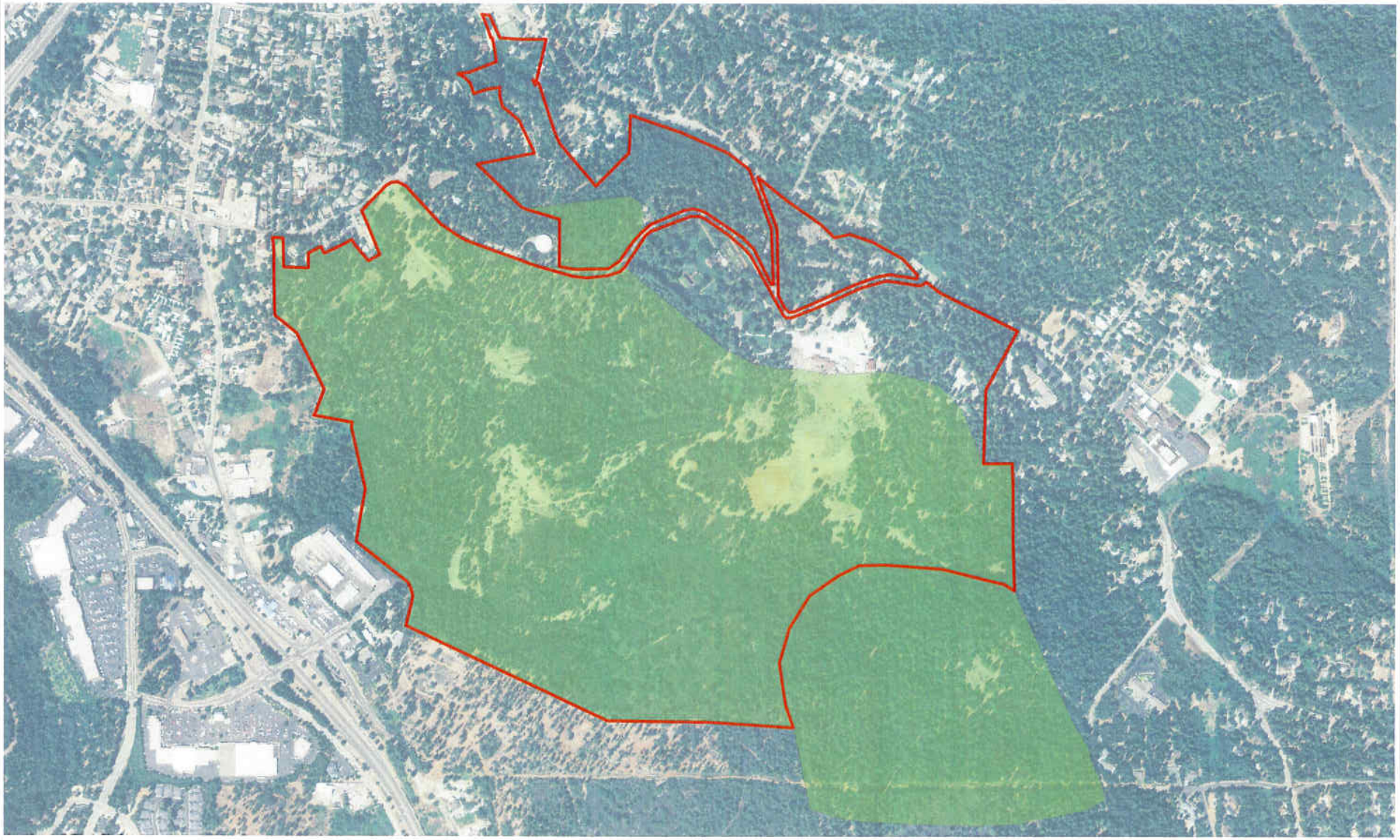
VESTRA

SOURCE: NAIP 2005

0 1,000 2,000 4,000 Feet

FIGURE 7
CALIFORNIA RED-LEGGED
FROG SURVEY LOCATIONS
EMPIRE MINE STATE
HISTORIC PARK
GRASS VALLEY, CALIFORNIA

P:\GIS\70806\BiologicalCharacterizationReport\70806_Figure7_CRLF_SurveyLocations.mxd



Project Area

California Horned Lizard Survey Area

VESTRA

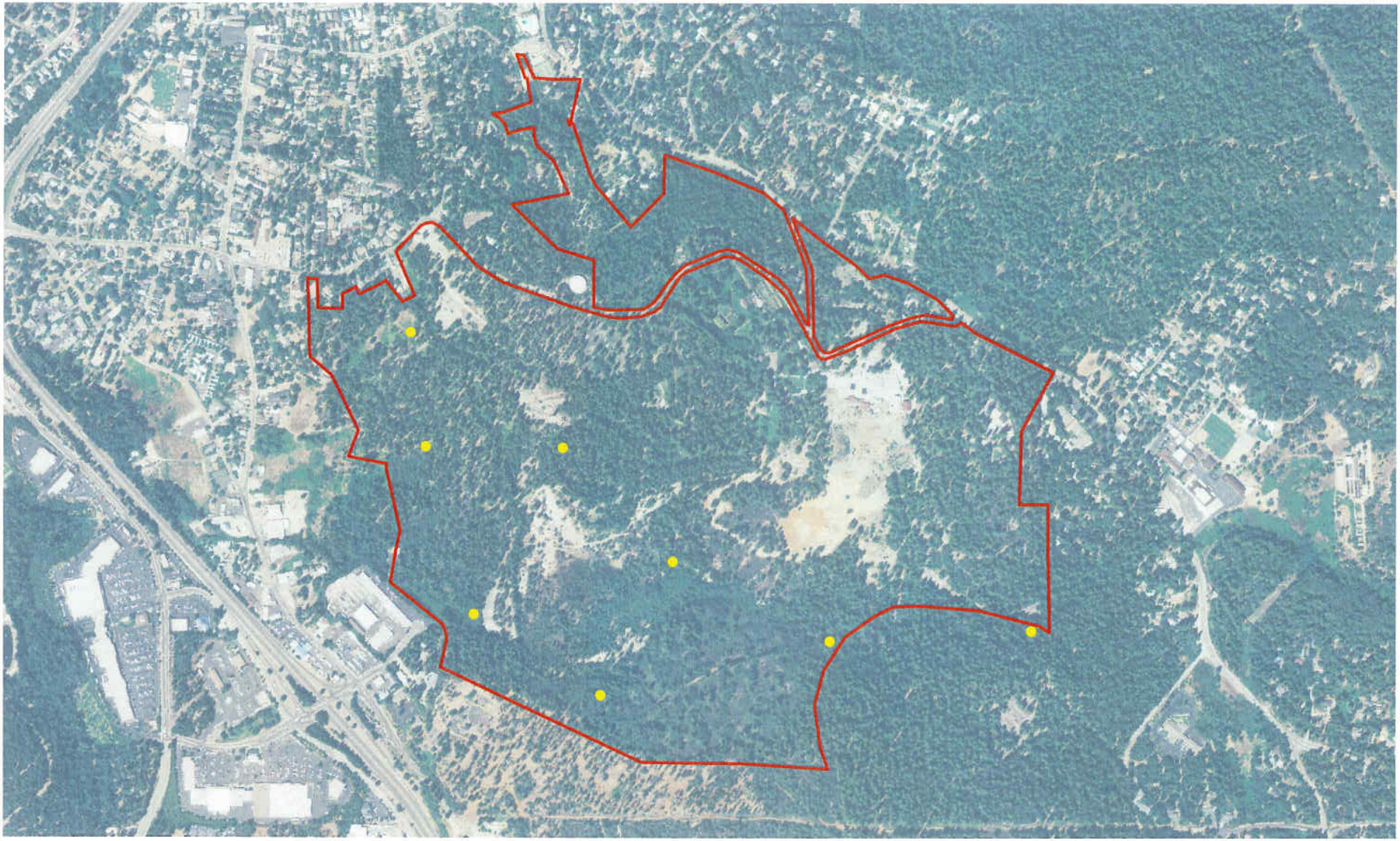
SOURCE: NAIP 2005

N

0 500 1,000 2,000 Feet

FIGURE 8
CALIFORNIA HORNED LIZARD
SURVEY AREA
EMPIRE MINE STATE
HISTORIC PARK
GRASS VALLEY, CALIFORNIA

P:\GIS\70806\BiologicalCharacterizationReport\70806_Figure8_HornedLizard.mxd



Willow Flycatcher Calling Location

Project Area

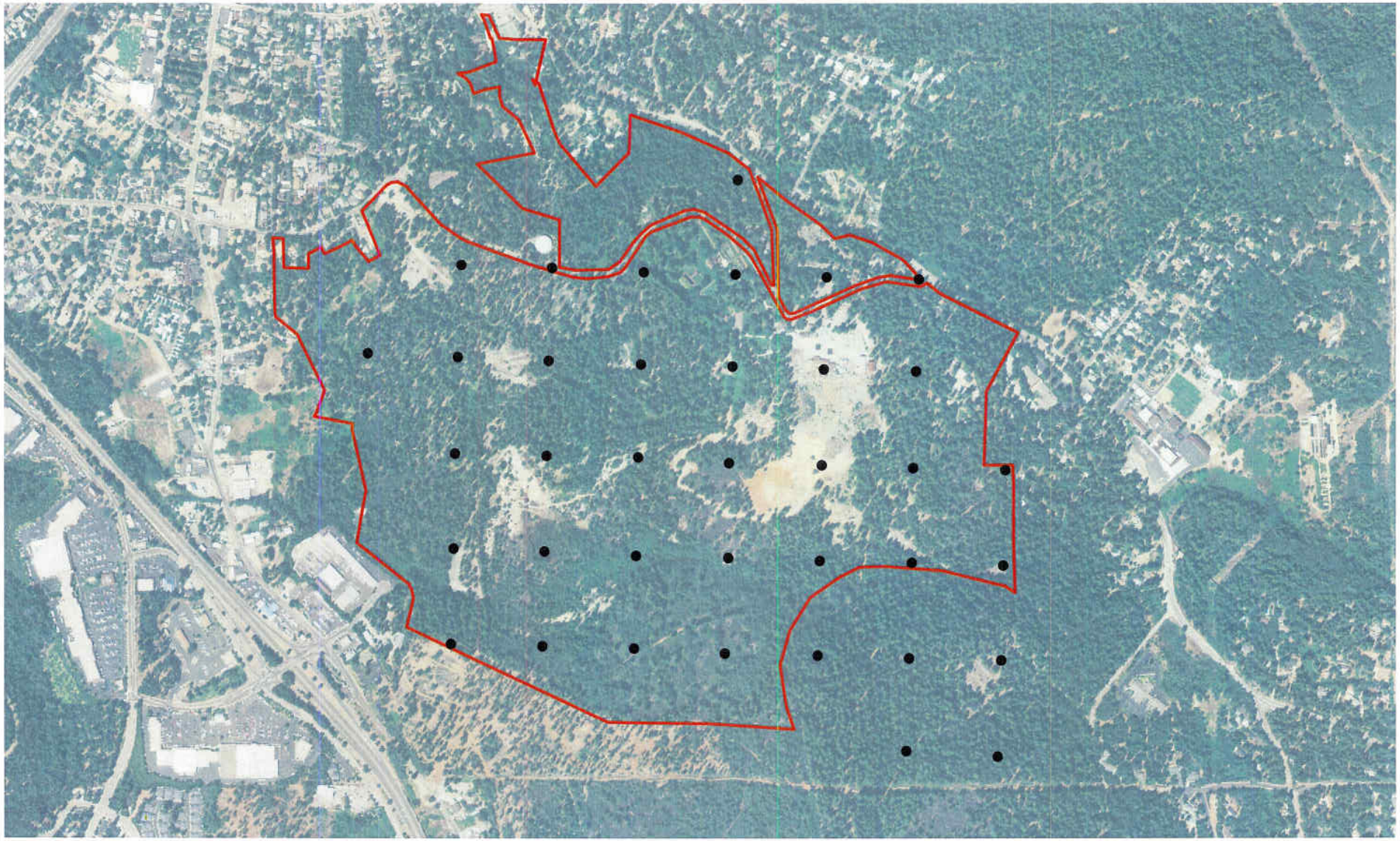
VESTRA

SOURCE: NAIP 2005

0 500 1,000 2,000 Feet

FIGURE 9
WILLOW FLYCATCHER
CALLING LOCATIONS
EMPIRE MINE STATE
HISTORIC PARK
GRASS VALLEY, CALIFORNIA

P:\GIS\70806\BiologicalCharacterizationReport\70806_Figure9_WillowFlycatcher.mxd



● Approximate Raptor Survey Locations

Project Area

VESTRA

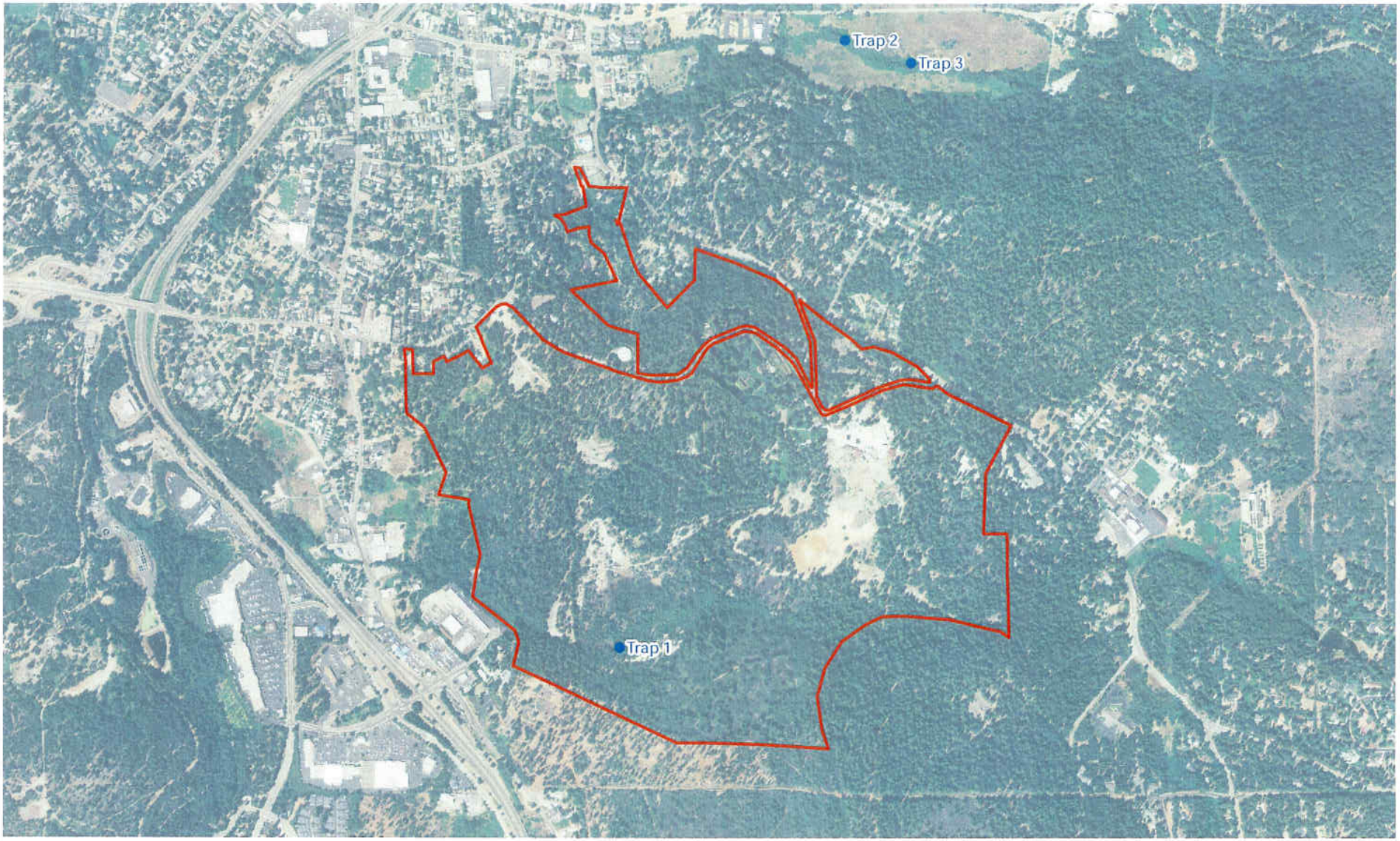
SOURCE: NAIP 2005

N

0 500 1,000 2,000 Feet

FIGURE 10
RAPTOR SURVEY **GRID**
EMPIRE MINE STATE
HISTORIC PARK
GRASS VALLEY, CALIFORNIA

P:\GIS\70806\BiologicalCharacterizationReport\70806_Figure10_Raptors.mxd



Northwestern Pond Turtle Trap Location

Project Area

VESTRA

SOURCE: NAIP 2005

N

0 625 1,250 2,500 Feet

FIGURE 11
NORTHWESTERN POND
TURTLE TRAP LOCATIONS
EMPIRE MINE STATE
HISTORIC PARK
GRASS VALLEY, CALIFORNIA

P:\GIS\70806\BiologicalCharacterizationReport\70806_Figure11_NWTurtle.mxd