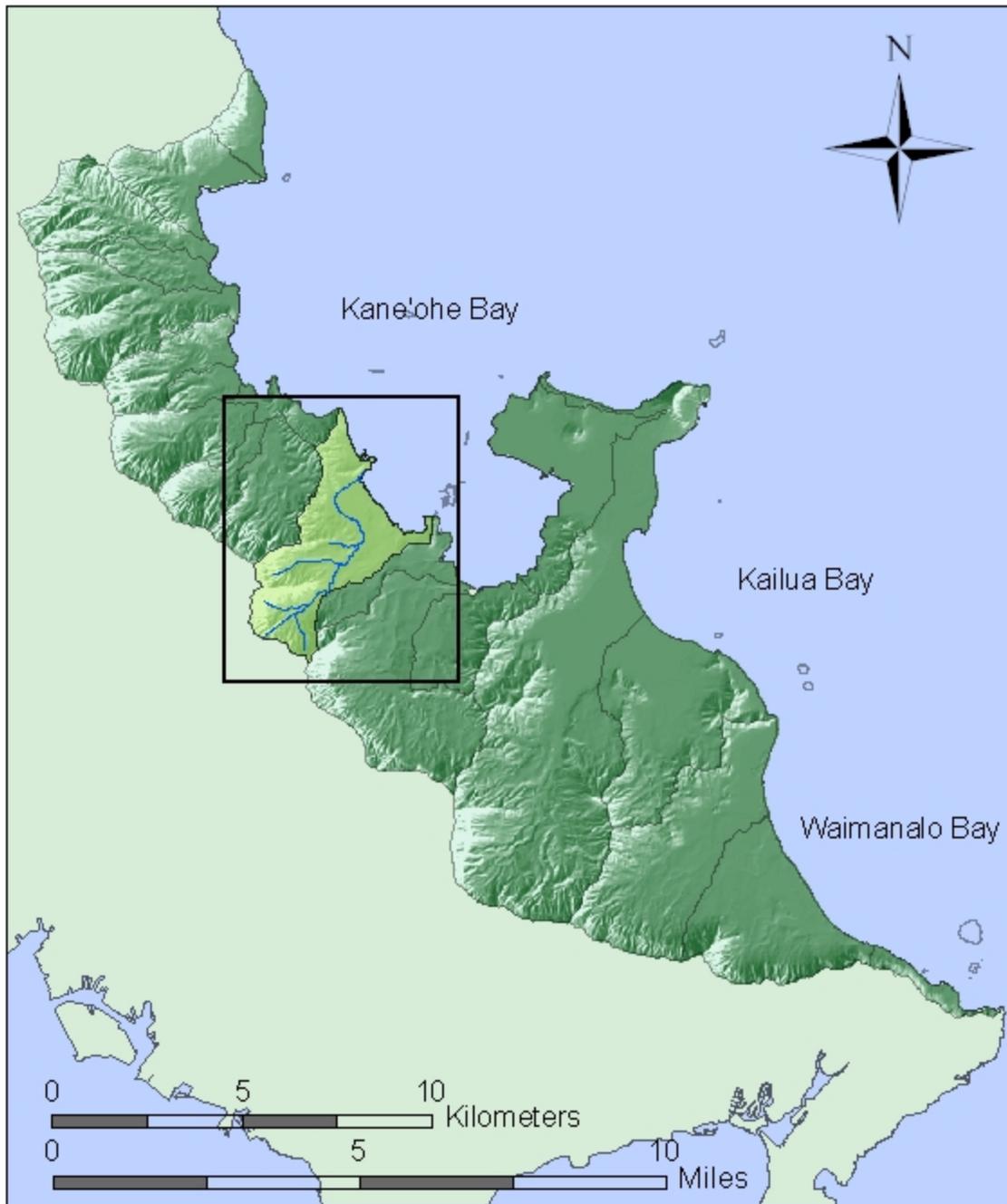
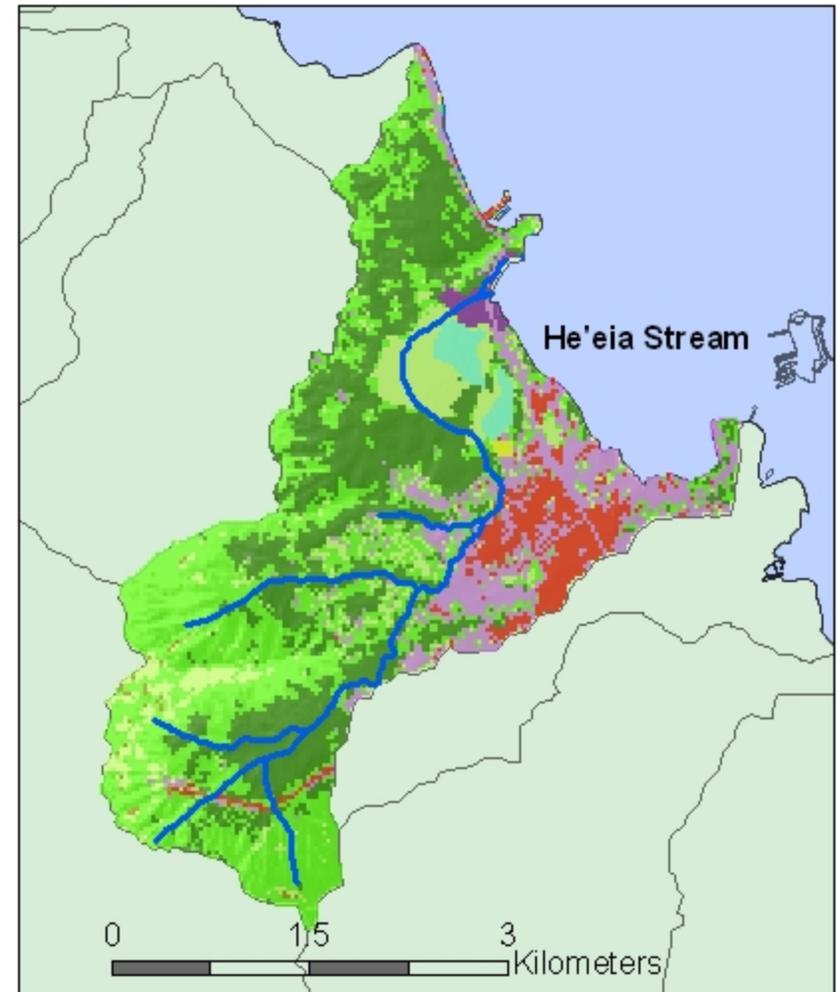
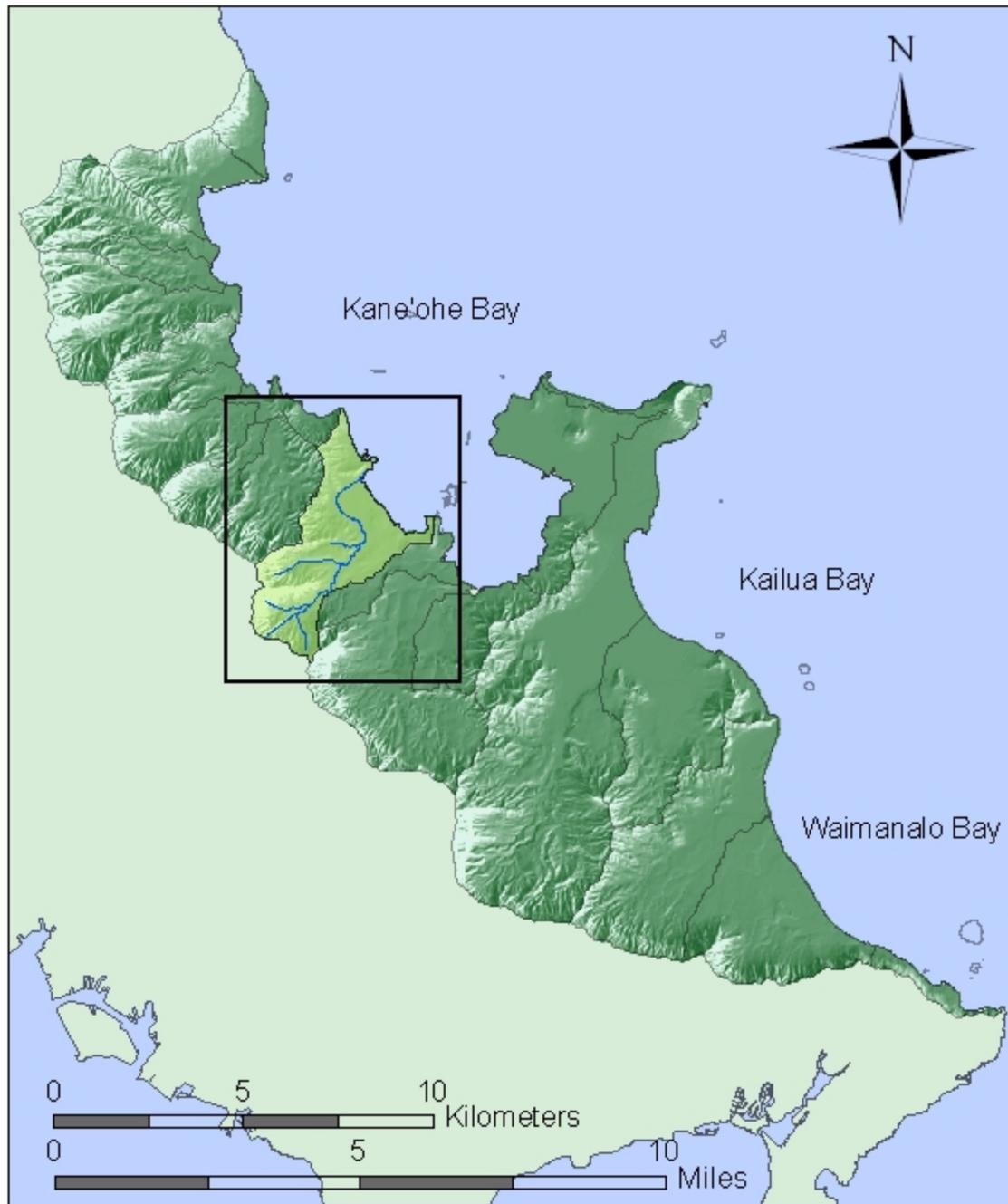


Ko'olaupoko Moku: He'eia Watershed



Map Created by:
KBAC
Neoma Lavalle
August 2006

Ko'olaupoko Moku: He'eia Watershed



Legend

- | | |
|----------------------------|-----------------------------|
| Streams | Scrub/Shrub |
| High Intensity Development | Palustrine Emergent Wetland |
| Low Intensity Development | Estuarine Forested Wetland |
| Cultivated Land | Unconsolidated Shore |
| Grassland | Bare Land |
| Evergreen Forest | Water |

Data Source: C-CAP

Map Created by:
KBAC
Christina Speed
May 2007

He'eia Watershed: Land Use

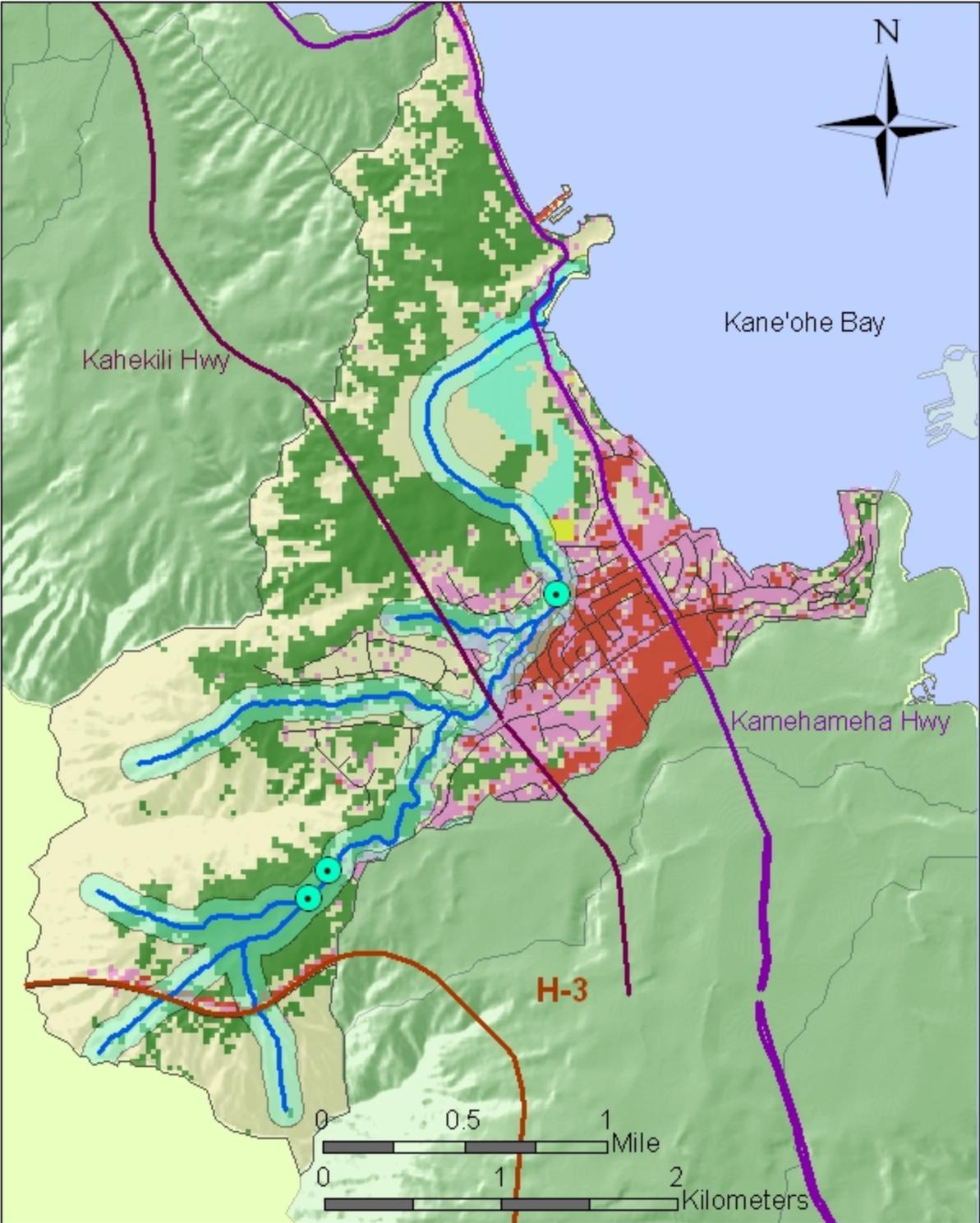
Data Source: C-CAP

Within 100 meters of
He'eia Stream

Land Use	Total Area of Land Use (HA)	Area (HA) within 100 meters	% within 100 meters
High Intensity Development	70.38	5.85	8.31%
Low Intensity Development	141.48	19.44	13.74%
Agricultural Lands	2.25	0.45	20.00%
Wetlands	30.87	7.92	25.66%
Forested Lands	360.72	93.33	25.87%
Other	543.96	101.07	18.58%

Legend

-  Water Quality Monitoring Stations (DOH)
-  He'eia Stream
-  Streets
-  100 m Buffer
-  High Intensity Development
-  Low Intensity Development
-  Cultivated Land
-  Forest
-  Wetlands
-  Other



Map Created by:
KBAC
Christina Speed
July 2006

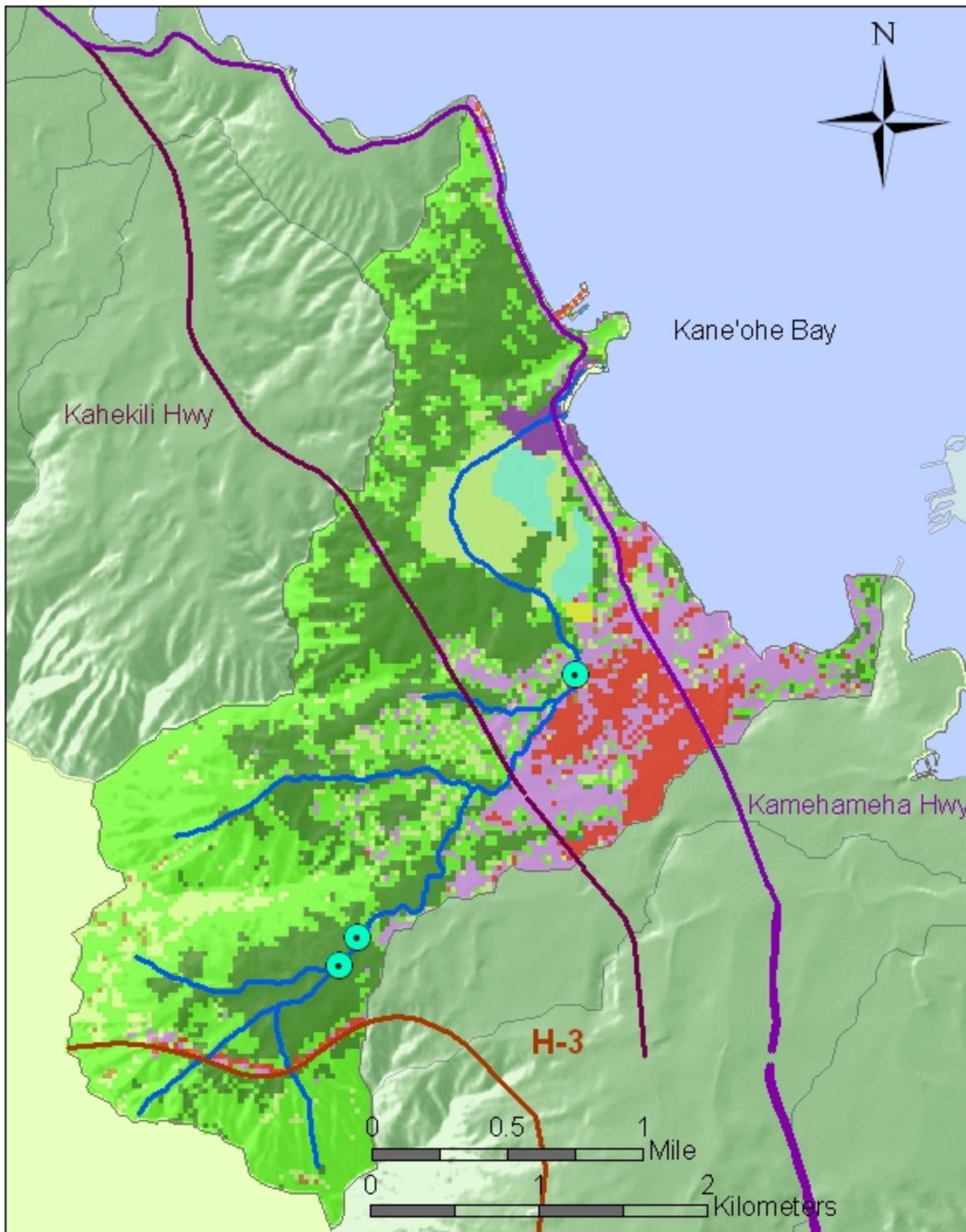
He'eia Watershed: Land Use/Land Cover

Data Source: C-CAP

Total Area of Watershed:
1,473 hectares
3,641 acres

Legend

-  Water Quality Monitoring Stations (DOH)
-  He'eia Stream
-  High Intensity Development
-  Low Intensity Development
-  Cultivated Land
-  Grassland
-  Evergreen Forest
-  Scrub/Shrub
-  Palustrine Emergent Wetland
-  Estuarine Forested Wetland
-  Unconsolidated Shore
-  Bare Land
-  Water



Map Created by:
KBAC
Neoma Lavalle
Christina Speed
August 2006



He'eia Watershed: Stream Description

303d Status:
Medium Priority
Pollutants: Nitrite/Nitrate

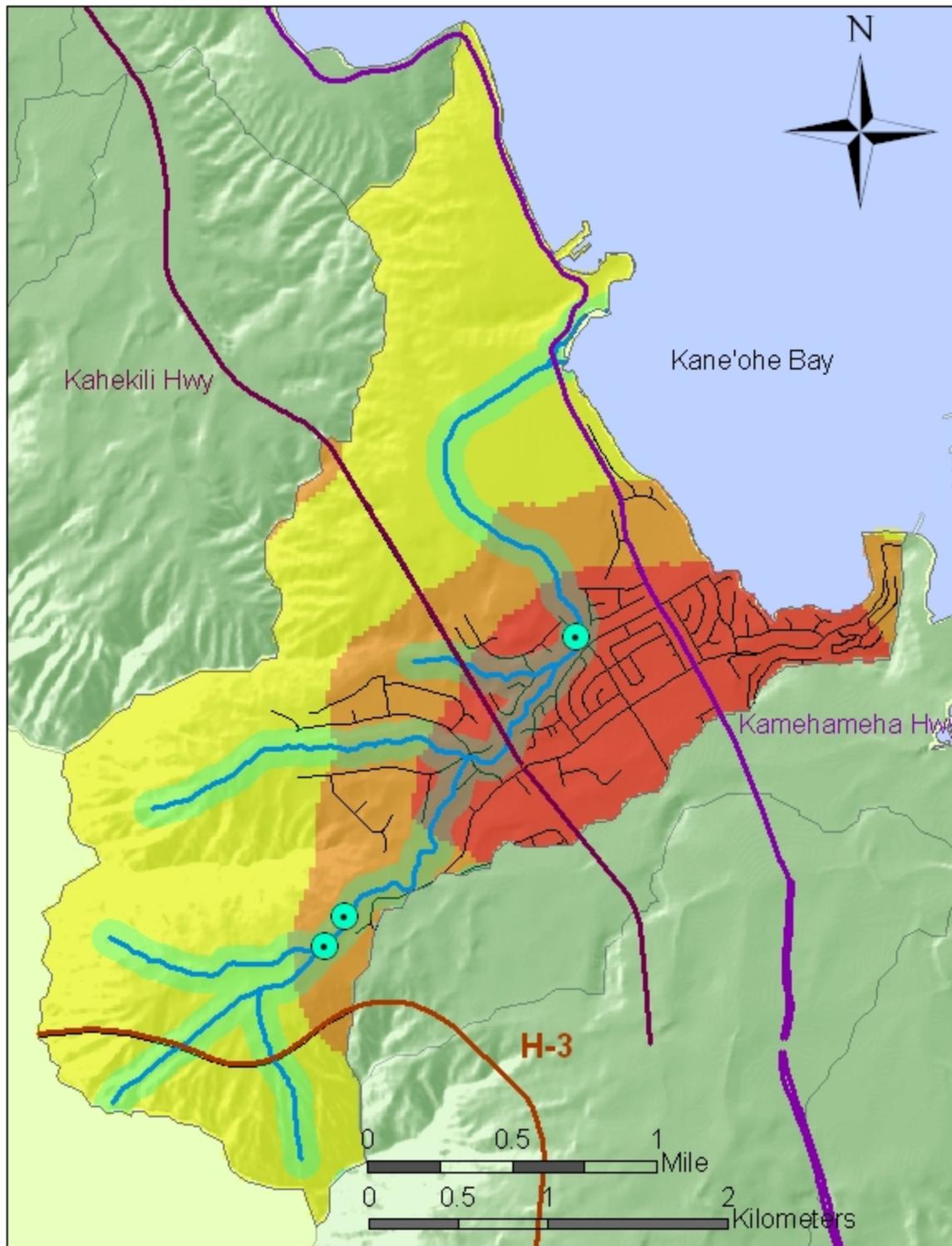
Total Length:
7.4 miles
11,882 m

Legend

-  Water Quality Monitoring Stations (DOH)
-  He'eia Stream

Map Created by:
KBAC
Neoma Lavalle
Miranda Smith
Christina Speed
September 2006

He'eia Watershed: Streets



Average Street Density in Watershed:
38 meters / hectare

Total Length:
43,466 meters of road

Total Length Within a Specified Distance:
100m: 17, 049 m
50m: 13, 744m
20m: 11,547m

Legend

 Water Quality Monitoring Stations (DOH)

 He'eia Stream

 Streets

 Distance 100 m

Street Density

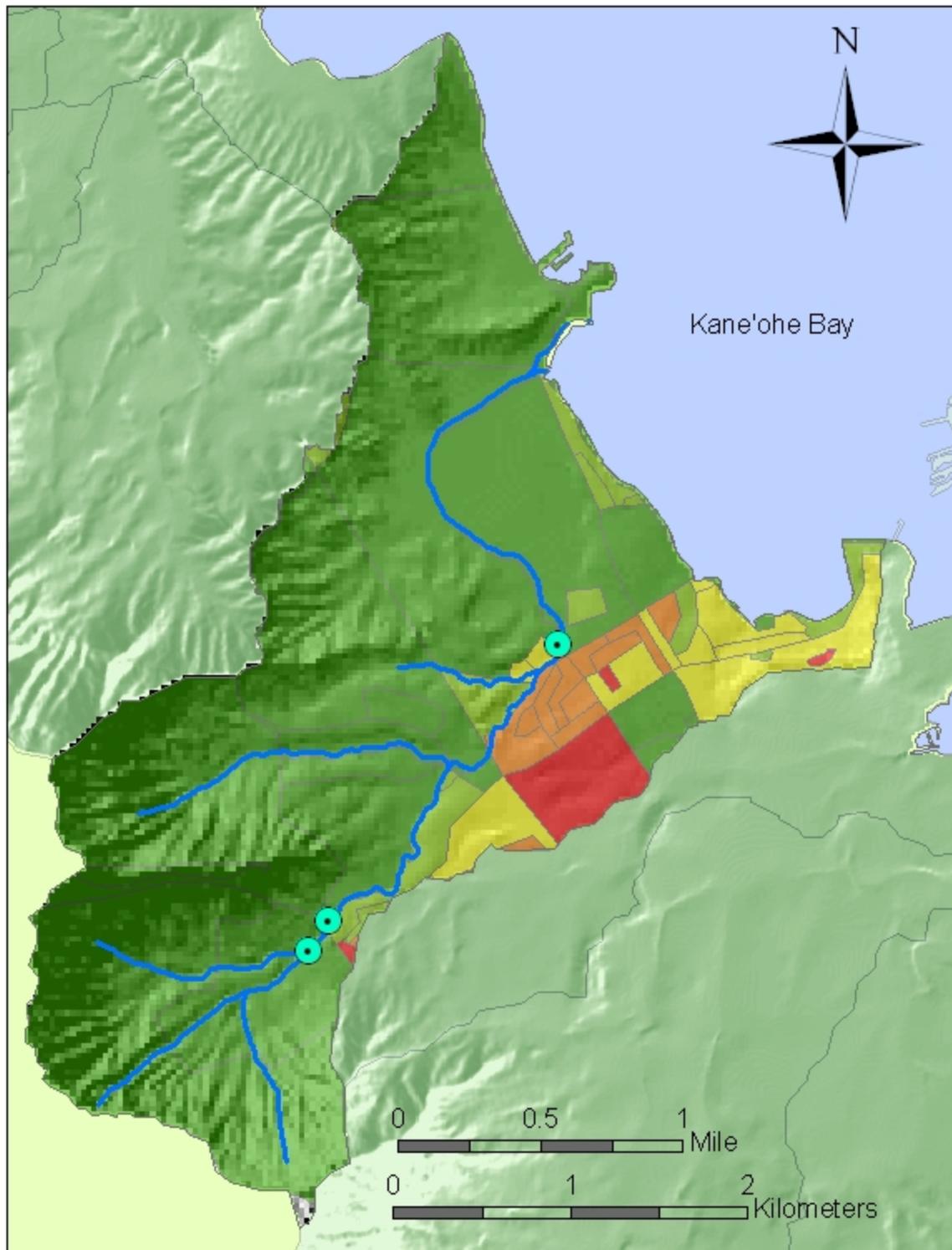
 Low

 Medium

 High

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Neoma Lavalle
Miranda Smith
Christina Speed
July 2006

He'eia Watershed: Population Density



Total Population: 13,595 people
U.S. Census 2000

Legend

 Water Quality Monitoring Stations (DOH)

 He'eia Stream

Density:

people/hectare

 0 - 7

 8 - 26

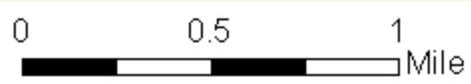
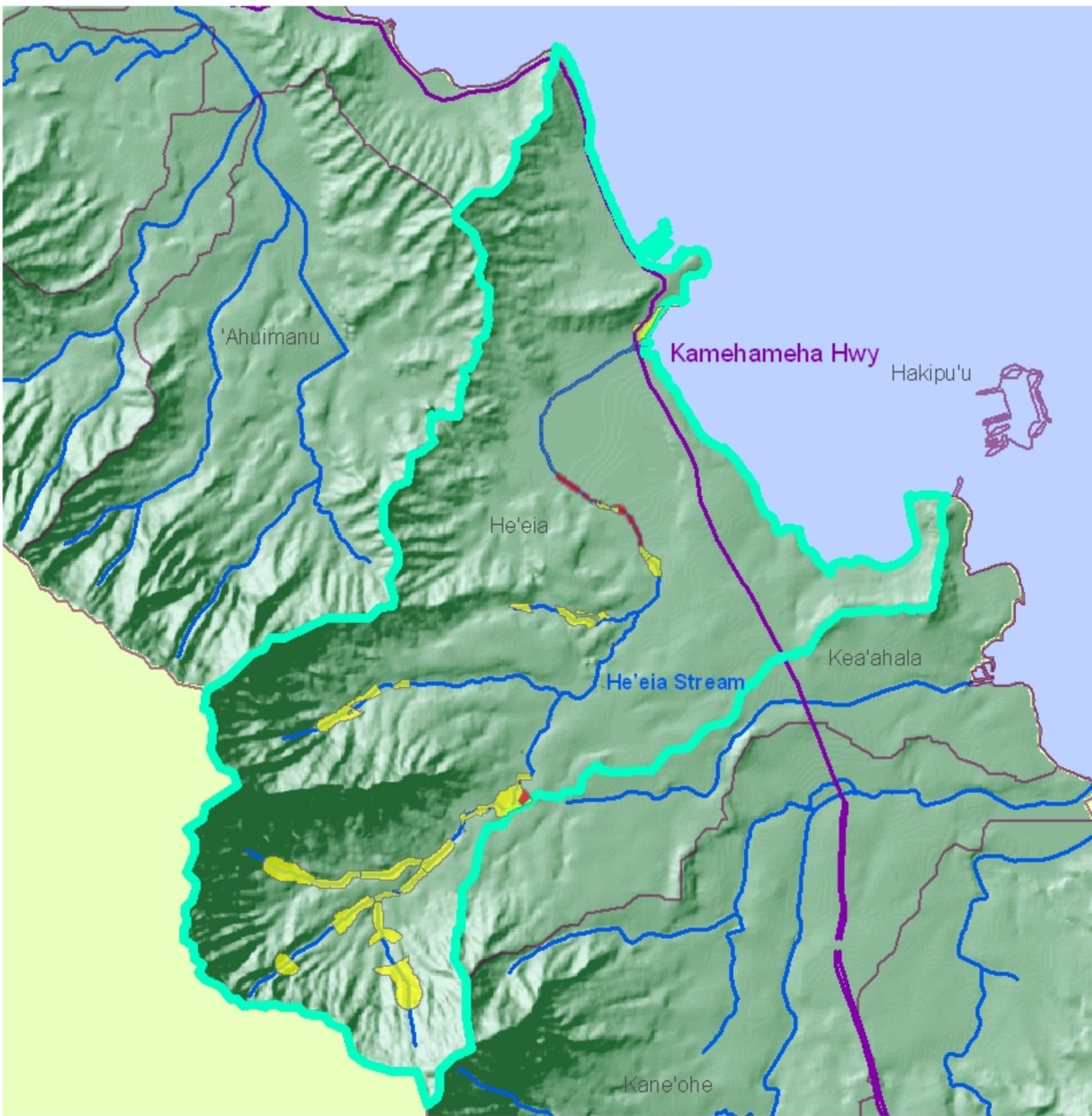
 27 - 35

 36 - 47

 48 - 91

Map Created by:
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Neoma Lavalle
Miranda Smith
Christina Speed
July 2006

He'eia Stream: Restoration and Preservation Opportunities



Legend

-  Streams
-  Preserve (92 acres/37 hectares)
-  Restore (7 acres/3 hectares)

Map Created by:
KBAC
Christina Speed
May 2007