Remedial Priority System

Ecological Health Layers

Salt Water Marsh

March 2012

Human Health Layers

The Ecological Receptor Layers developed by the Department are:

- **Pinelands**,
- **Highlands**,
- **Water Bodies (Surface Water Quality Standards)**,
- **Natural Heritage**,
- **Landscape - Habitats and Animals**,
- **Other Freshwater Wetlands**,
- **Salt Water Marsh**

Salt Water Marsh Layer

- Reason for Inclusion: Critical Habitat for Commercial Fisheries. The Salt Marshes layer was derived by combining three 2002 Land Use layers.

- Source Layers: Land Use
  - Land Use Types combined into the Salt Water Marshes layer:
    - saline high marsh
    - saline low marsh
    - Phragmites dominates the coastal wetland

Salt Water Marsh Layer

- Cell Values:
  - The cell values were established to give weight to more critical and sensitive ecological receptors. Values were created to reflect inter-relationships between this layer and all other Ecological Receptor Layers.

Salt Water Marsh Ecological Health Layers	
Salt Marsh	**Cell Value**
Salt Marsh outside of Landscape	1000

- Calculation Method:
  - All cells that are within the ground water Extent Area are summed.

Salt Water Marsh Layer

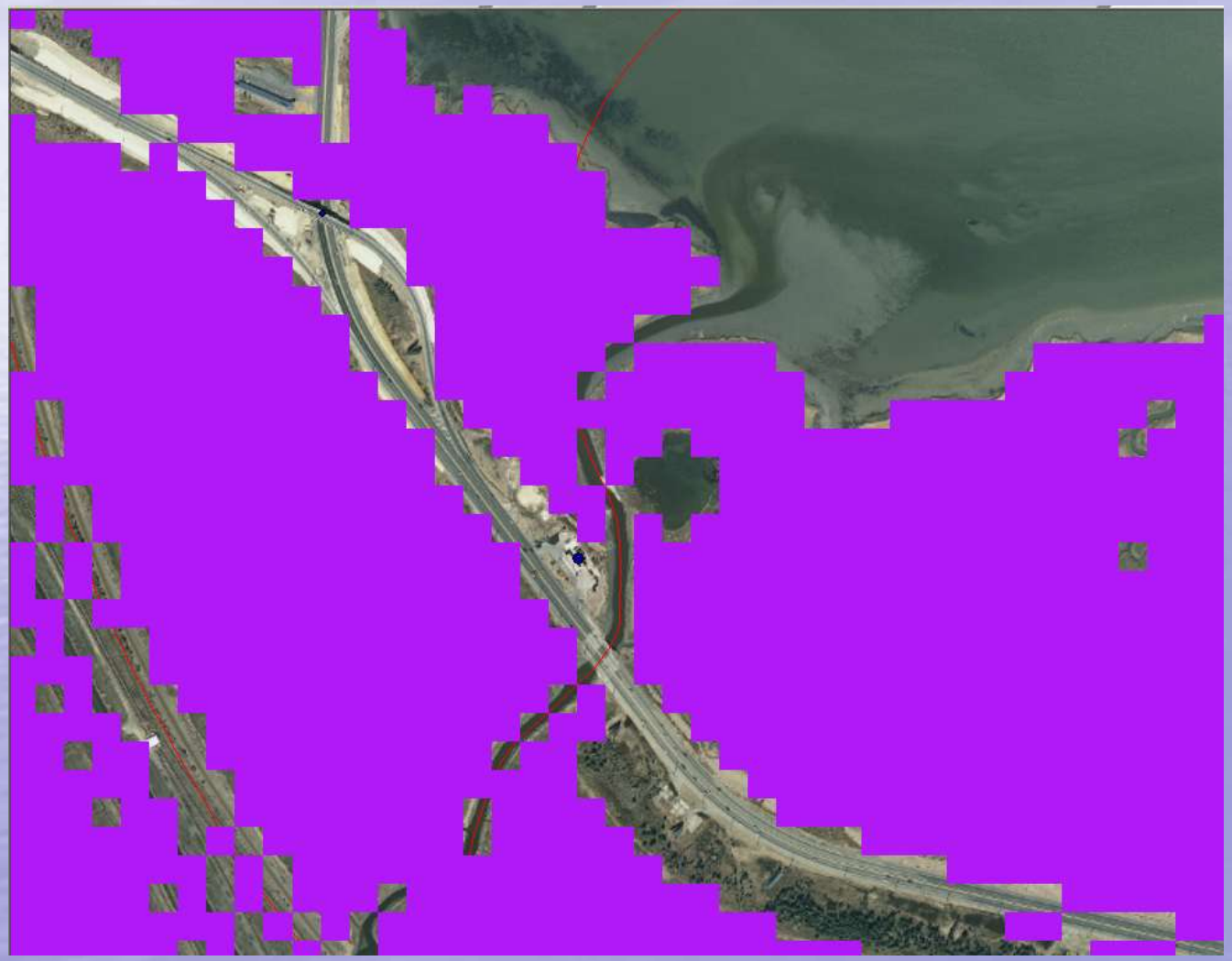
- The following is the method used to create the Salt Water Marsh GIS layer

Salt Water Marsh Layer

Creating the Salt Water Marsh Layer

Salt Water Marsh Layer

Creating the Salt Water Marsh Layer

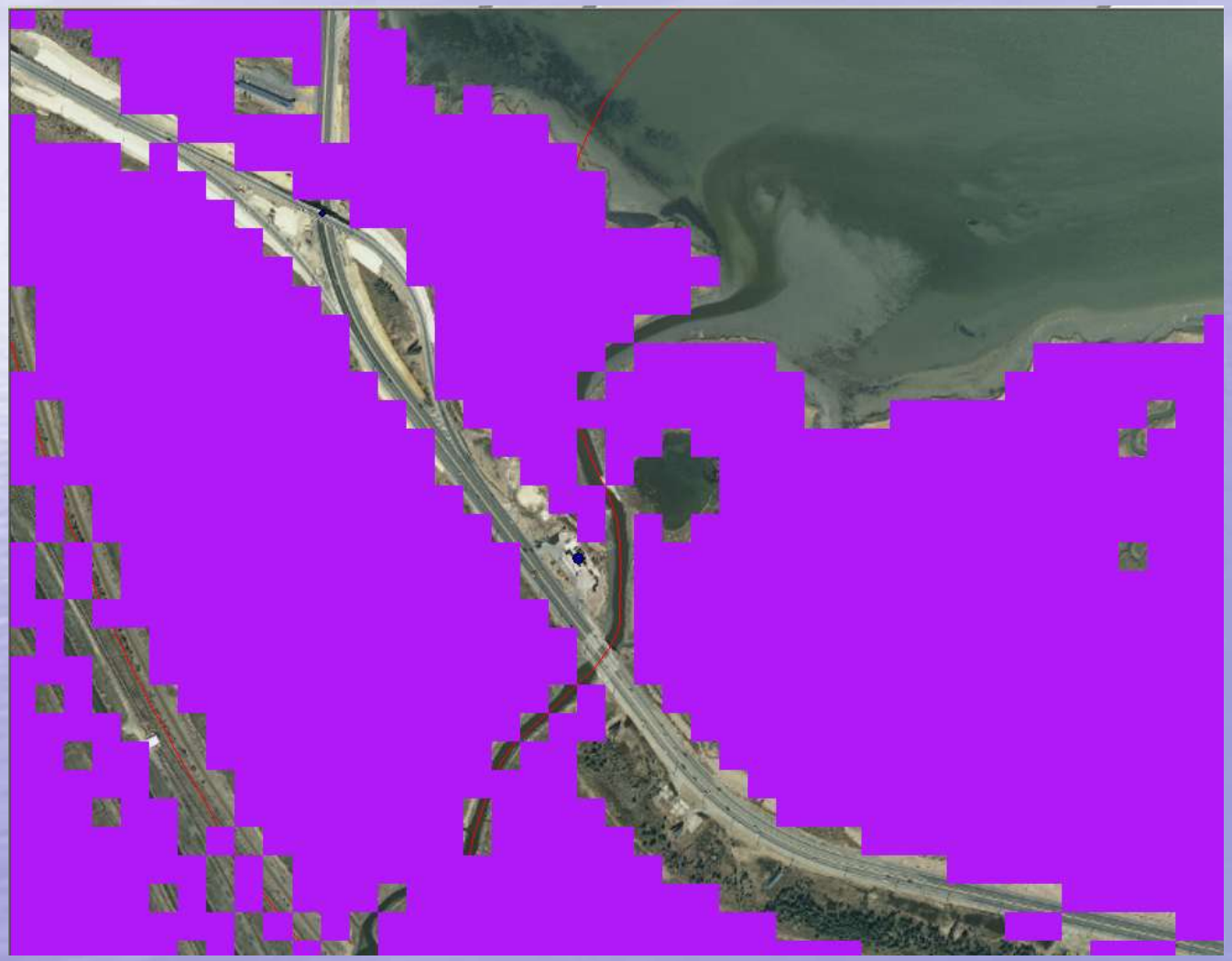


Create later based on Land Use Types identified as either:

- saline high marsh
- saline low marsh
- Phragmites dominant

Salt Water Marsh Layer

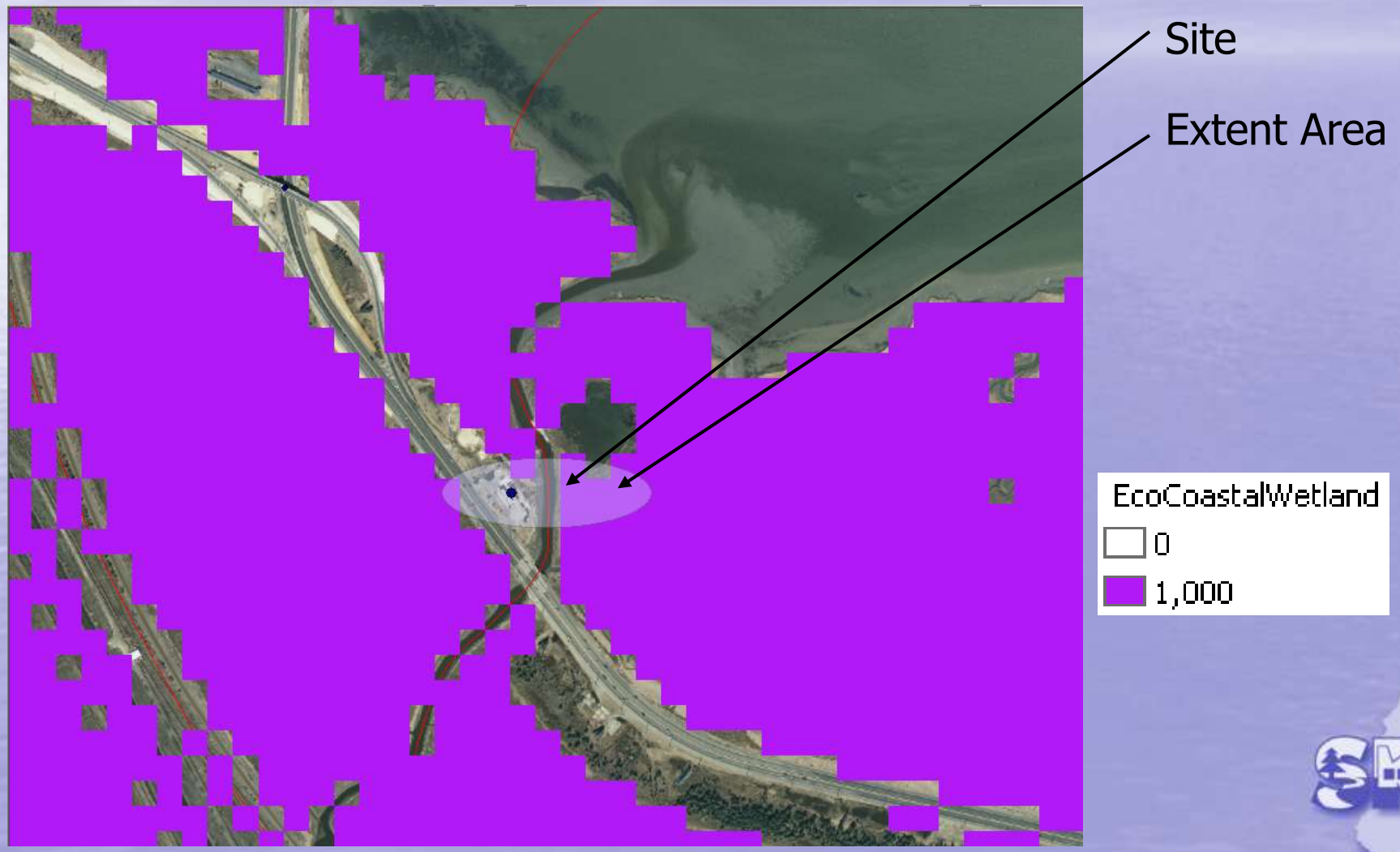
Creating the Salt Water Marsh Layer



Convert vectors into Raster (100 by 100 grid) and assign the appropriate values to each cell.

Salt Water Marsh Layer

Creating the Salt Water Marsh Layer



Salt Water Marsh Layer

Creating the Salt Water Marsh Layer

Zoom in

Sum up all cell values that are within the Extent Area

cell value = 1,000

Cells within area =9

Final Score = 9,000

- A Salt Water Marsh Layer is created for the entire state.

- The following is the layer used to calculate the Salt Water Marsh Receptor Layer Score.

Salt Water Marsh Layer