



Remedial Priority System

Ecological Health Layers
freshwater Wetlands

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**





Wetlands Layer

- **Reason for Inclusion:** Ecologically sensitive areas outside of the Landscape coverage (at this time) includes only wetlands
- **Source Layers:**
 - *Land Use:*
 - **Basis for layer:** Used to identify all potential wetlands
 - *Landscape Project: Emergent Wetlands and Forested Wetlands Layer*
 - **Basis for layer:** Used to identify wetlands that are scored as part of the Landscape Layer
- Any cells that are identified as wetlands Land Use Type and were not identified during the generation of the Landscape Layer are identified as was “Other Fresh Water Wetlands.”





Wetlands 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.

Other Wetlands Ecological Health Layers	
<u>Other Freshwater Wetlands</u>	<u>Cell Value</u>
Ecologically sensitive areas outside of Landscape	300

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





Wetlands Layer

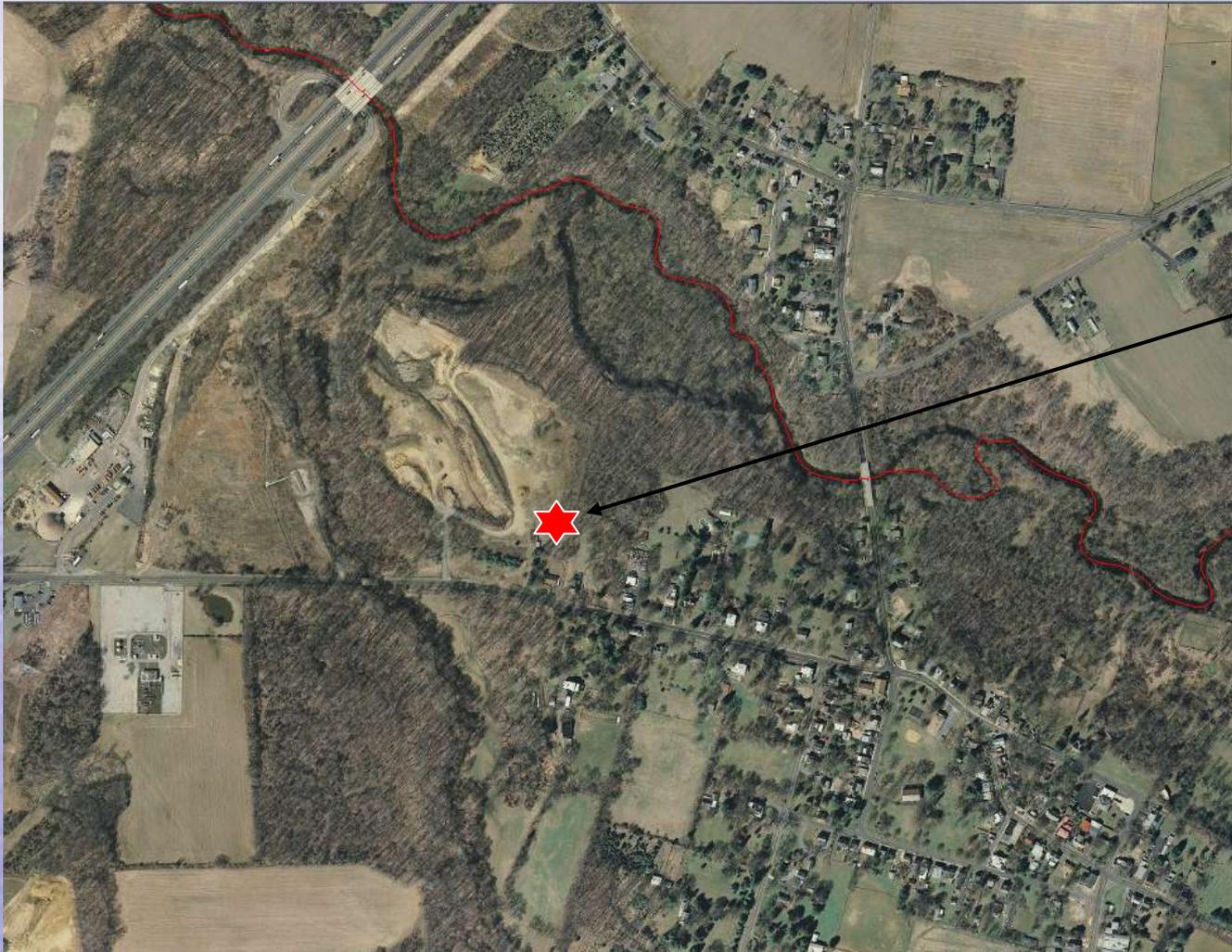
- The following is the method used to create the Wetlands GIS layer





Wetlands Layer

Creating the Other Wetlands Layer



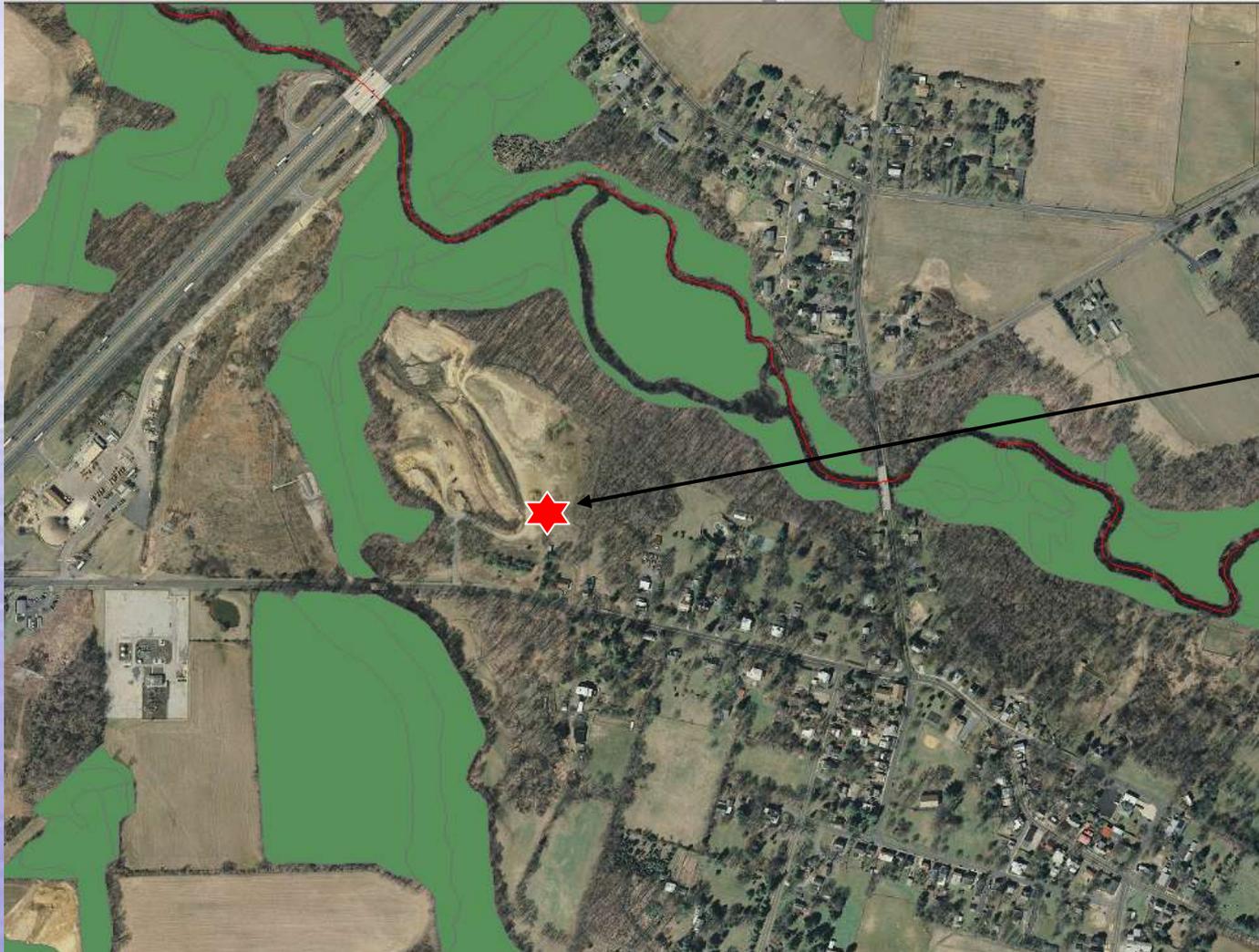
Site





Wetlands Layer

Creating the Other Wetlands Layer



All wetlands identified by the Landscape Layer

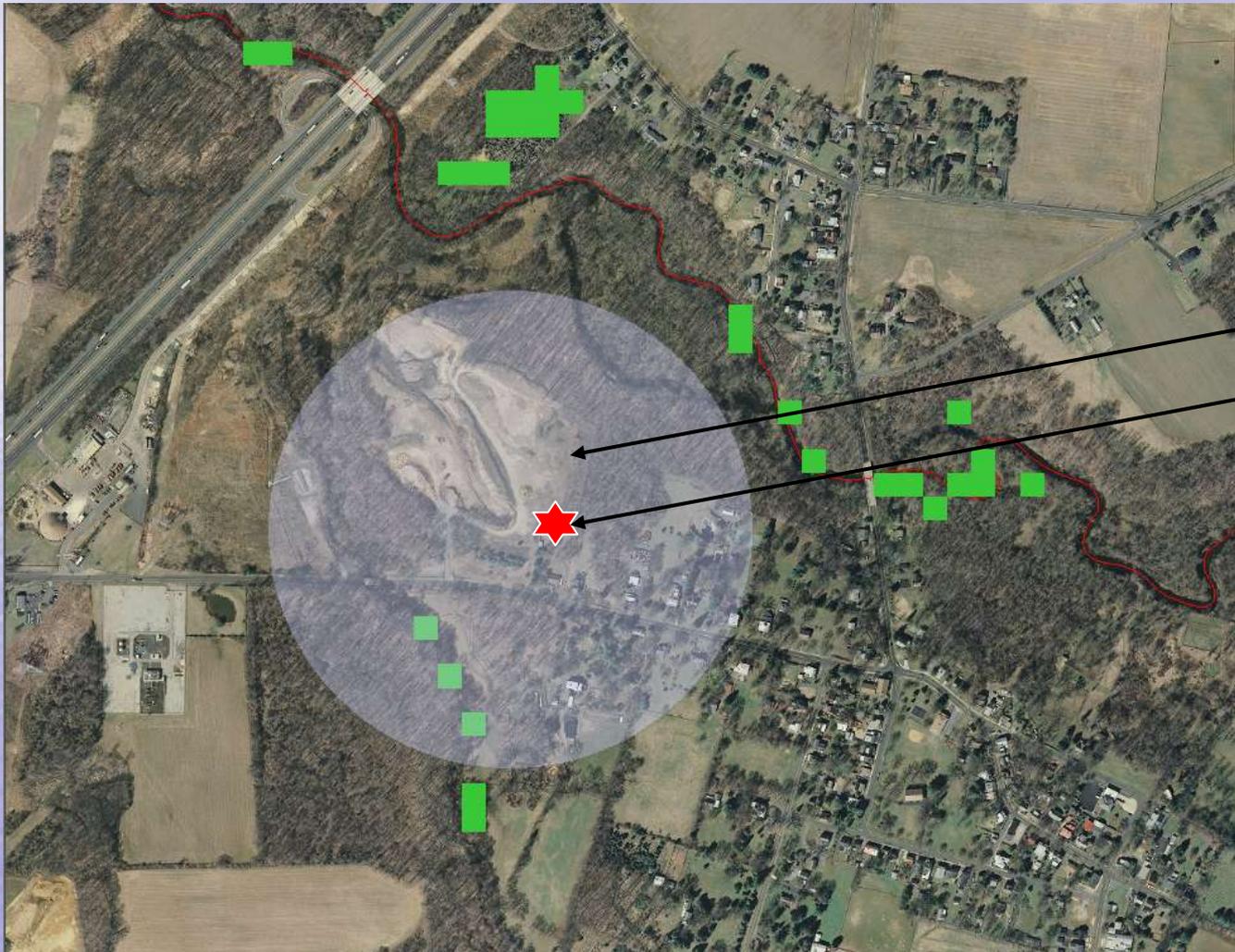
Site





Wetlands Layer

Creating the Other Wetlands Layer



The Raster grids identified as wetlands, but were not counted in during the creation of the Landscape Layer

GW Extent Area

Site

Legend

□ 0

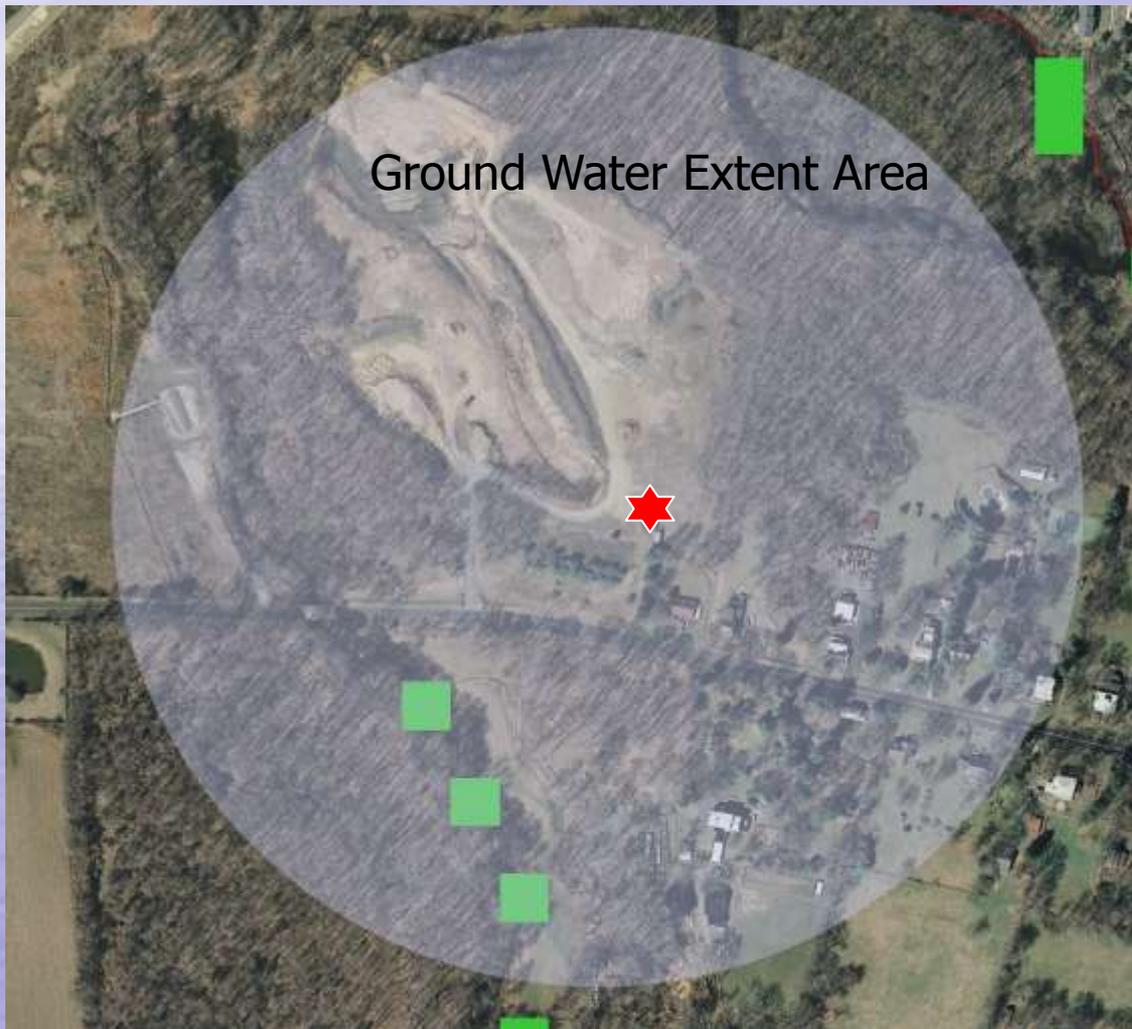
■ 300





Wetlands Layer

Creating the Other Wetlands Layer



Zoom in

Sum up all cell values that are within the Extent Area

cell value = 300

Cells within area = 3

Final Score = 900

Legend

 0

 300





- A Wetlands Layer is created for the entire state.
- The following is the layer used to calculate the Wetlands Receptor Layer Score.



Wetlands Layer

