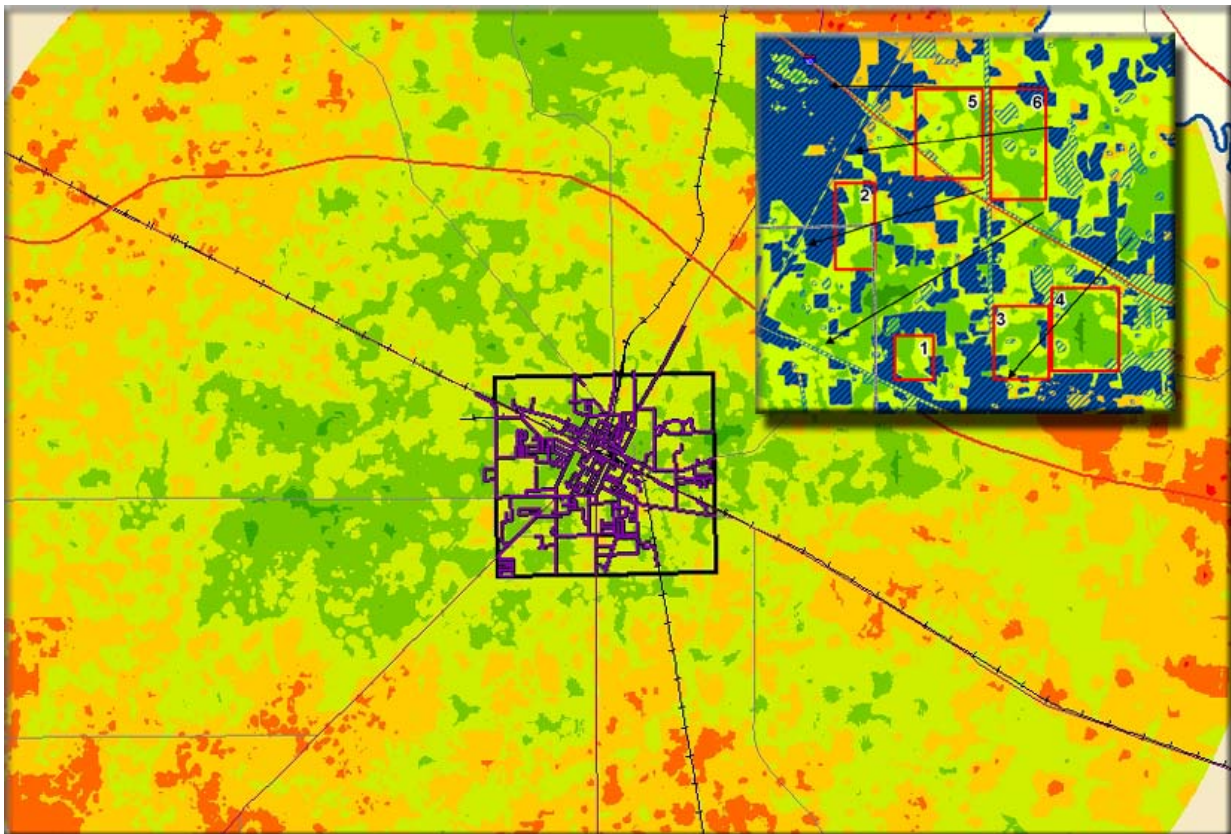


## ***SITE SUITABILITY ANALYSIS***

Whether siting a power plant, public supply well field, wastewater spray field or landfill, appropriate site location is a key factor and critical initial step in the design of many projects. Acquiring and developing new land for site development can be increasingly more difficult due to growth of urban areas, increased environmental standards and regulations, and a surging real estate market. Advanced GeoSpatial develops site suitability analyses to identify land areas that are most desirable to meet our clients' needs. For each of these projects, certain aspects are more important than others in determining the best location for these sites, and might include an area's proximity to existing infrastructure, specific soil types, major transportation features, surface water bodies, sinkhole or collapse features, and land use. Our site suitability analysis allows these unlike measurements to be converted to common values that can be summed and compared.



This method is implemented to identify suitable sites with specific requirements or restrictions, the results of which can greatly reduce the time typically spent searching records, data processing or field surveying by providing a way to filter out unusable or less desirable sites. The results of the site suitability analysis produce a detailed display of the most suitable to least suitable areas for consideration of placement of a certain facility. In

the model output displayed above, areas near the City of Live Oak, Florida were evaluated for suitability of establishment of a new well field to meet increased water supply needs of the City. The green represents the most suitable areas based on the data included in the analysis, whereas red represents the least suitable areas. Unacceptable land uses and ground-water flow lines were also added to enhance the utility of the analysis output.

