

# Chatham County Conservation Subdivision Guidelines for Conservation Space Selection

This guidance document addresses the Conservation Space requirements in Section 7.7, Conservation Subdivision, for developing a conservation subdivision. Conservation Space should be selected with consideration of adjacent properties. The goal of Section 7.7 is to provide an incentive for development in a manner that will establish current, or enable future, connections with other conservation areas. The long term goal is to create large, continuous areas of natural space across Chatham County for the benefit of both human and natural environments.

## 1) Conservation Space Required

**Conservation space** is comprised of two categories of space to be preserved — Open Space and Natural Space. **Open space**, as defined \_\_\_\_\_ (**specify where defined**), allows amenities such as recreational uses and some non-intrusive common uses (e.g. when land application is not the preferred means of wastewater disposal, community septic systems are allowed in Open Space areas). Open space should be located as close to proposed development as practicable, taking into account considerations such as public safety and soil suitability. **Natural space** is an area of unaltered preservation (**also defined .... ?**)

1.1) Open Space: Regarding the required minimum 50% Conservation Space for a Site, a maximum of 10% of the site (20% of Conservation Space) shall consist of Open Space.

Areas to Place in Open Space
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| <ul style="list-style-type: none"><li>• Active and/or Passive Recreation—impervious areas such as tennis or basketball courts should not exceed more than 25% of the Open Space total (2.5% of total site)</li><li>• Community Septic Systems, or land application areas.</li><li>• Other Shared Infrastructure Such as Community Wells</li></ul> |
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1.2. Natural Space: Regarding the required minimum 50% Conservation Space for a Site, a minimum of 40% of the site (80% of Conservation Space) shall consist of Natural Space.

The below prioritization of natural areas was compiled by the Chatham County Environmental Review and Planning boards, and is provided to guide natural space selection. The natural areas are listed in order of value under two categories, Primary and Secondary. Each type of primary and secondary natural area should be considered in order of its listing. Continuity of natural space is of most importance (i.e., many isolated pockets of primary area are less valuable than several primary areas all connected with secondary areas). It is expected that secondary and non-identified areas will be required to ensure continuity between primary areas.

Chatham County understands that site constraints may be too restrictive for the intended uses (e.g. septic fields) on some properties. In these instances, some of the required Natural Space may be used to satisfy these requirements. The Chatham County Environmental Resources Director will allow less Natural Space preservation when it can be demonstrated that no practicable alternative exists (although at least 50% of the site must still be retained as Conservation Space). In making this decision, the Environmental Resources Director will take into consideration soil suitability, slopes, and alternative means of achieving compliance (e.g., when soil suitability dictates that additional land is needed to accommodate septic fields, would on-site treatment and land application be feasible in lieu of septic)? **[need to discuss this last sentence – will need clarification]**

Primary Natural Areas (Preserve these first – listed in order of value)
<ul style="list-style-type: none"> <li>● Steep Slopes (as defined in Erosion and Sedimentation Control Ordinance) and Watershed Buffers (these first, then others in whatever order necessary for each site)</li> <li>● Upland Pools and Rock Outcrops* (site-by-site**)</li> <li>● State Natural Heritage Areas and Natural Heritage Element Occurrences</li> <li>● NC Wildlife Action Plan (WAP) Upland Systems* (≥ 5,000 ft<sup>2</sup>)</li> <li>● Historic and Cultural Resources</li> </ul>

Secondary Natural Areas (If the above have been preserved and there is still conservation area left, or if needed to connect several primary areas)
<ul style="list-style-type: none"> <li>● NC Wildlife Action Plan Lowland Systems* (≥ 5,000 ft<sup>2</sup>)</li> <li>● Active Farms and/or Prime Farmland Soils</li> <li>● Wildlife Resources Commission and Forest Service Hunting and Burn Buffers</li> <li>● Viewsheds (Scenic Views) of Natural and Cultural features visible from:             <ol style="list-style-type: none"> <li>1) scenic road corridors</li> <li>2) lakes or rivers</li> </ol> </li> </ul>

\* Upland Pools, Rock Outcrops, and WAP Systems require identification by an Environmental Professional.

\*\* Upland Pools and Rock Outcrops shall be preserved on a site by site basis. Approvals shall be based on the written opinion of the Environmental Professional and recommendation of the Environmental Review Board to the Board of Commissioners.

*Upland pools* to receive protection include natural depressions which seasonally retain water, either by direct precipitation or through intersection with the water table. Abandoned agricultural or other manmade depressions that do not display these characteristics should not receive special protection.

*Rock outcrops* to receive protection include natural features, of intrusive or extrusive origin, and exist in, or contribute to, a natural community structure that would be expected of the chemical and morphological characteristics of the underlying geological units. Rocks deposited by past human activities should not receive special protection.

When more than 50% of a site contains Primary and/or Secondary areas, the conservation area shall be selected based on connectivity with adjacent conservation areas. However, under no circumstances should this section be construed to enable development on otherwise prohibited areas (e.g. watershed buffers, steep slopes, floodplains).

## **2) Maps Required**

During the initial planning of a Conservation Subdivision, the applicant is required to submit two maps to demonstrate that the intent of this incentive is satisfied. These maps include a Fragmentation Map, and an On-site Environmental Inventory Map. These maps must be approved by the Environmental Resources Director prior to any plat approval for both major and minor subdivisions.

2.1) The Fragmentation Map illustrates the project site and all land within one mile of its boundaries. This map will assist the applicant in deciding where Conservation Space should generally be located. Conservation Space should create connections with existing Natural space, or be located to allow future Natural Space connections on adjacent properties. All information required in the Fragmentation map is available on the Chatham County GIS website (<http://www.chathamgis.com/mapguide/ChathamGISWeb/>). A print-out from this website is acceptable for the Fragmentation Map. The estimated time investment to create this map is five to ten minutes. The map should illustrate the following information, all located in the 'Conservation Subdivision Data' folder.

- a- Parcel lines, roads, and easements;
- b- Existing Natural Space Areas;
- c- NHP Significant Natural Heritage Areas (SHNAs) and Element Occurrences (EOs);
- d- Hydrography, including protected floodplains, streams, lakes, ponds, seeps, springs, and wetlands; and,
- e- Steep Slope Areas

2.2) The On-site Inventory Map will be the primary decision-making tool for the applicant in selecting specific areas to include in Conservation Space, and the County in issuing approvals. Data required to generate this map include existing Chatham County GIS (website provided above), and on-site investigations.

- a- Existing landcover (natural community type, agriculture, developed, fallow field, etc), including all primary and secondary preservation areas;
- b- Proposed natural space preservation locations and acreages;
- c- Topography, using contour intervals of no greater than five feet;
- d- Streams, Wetlands, Floodplains, and required buffers;
- e- Adjacent open spaces; and,

## f- Cultural and Historic Resources