# Projected CAWTF Water Demands (million gallons per day)

<table>
<thead>
<tr>
<th>Demand Category</th>
<th>2010</th>
<th>2015</th>
<th>2025</th>
<th>Build-Out</th>
</tr>
</thead>
<tbody>
<tr>
<td>Average Day Finished Water Demand</td>
<td>20.8</td>
<td>25.8</td>
<td>29.6</td>
<td>40.7</td>
</tr>
<tr>
<td>Peak Day Finished Water Demand</td>
<td>33.7</td>
<td>41.6</td>
<td>47.7</td>
<td>65.9</td>
</tr>
<tr>
<td>Process Water (10%)</td>
<td>3.4</td>
<td>4.2</td>
<td>4.8</td>
<td>6.6</td>
</tr>
<tr>
<td>Chatham County Raw Water Demand</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
<td>3.0</td>
</tr>
<tr>
<td>Total Raw Water Peak Demand</td>
<td>40.1</td>
<td>48.8</td>
<td>55.4</td>
<td>75.5</td>
</tr>
</tbody>
</table>

- Peak day water demands are approaching the plant capacity of 40 million gallons per day (mgd)
- Project Purpose:
  - Accommodate projected peak day water demands through 2030
  - Maintain our high water quality and reliability
CAWTF Expansion Features

CAWTF Phase III Expansion EA

2 - EXPANSION FEATURES
Raw Water Pump Station Expansion Features
CAWTF Phase III Expansion EA
CAWTF Environmental Features
CAWTF Phase III Expansion EA

3 - ENVIRONMENTAL FEATURES
Raw Water Pump Station Environmental Features
CAWTF Phase III Expansion EA

Legend:
- Study Area
- Existing Town of Cary Easement
- 56 MUJ Expansion Features
- 64th Raw Water Line Extension
- Airburst Pipe System
- Existing Raw Water Intake Area
- Extended Easement Requested
- Jordan Lake Buffer Zone 1 (Inner 30')
- Jordan Lake Buffer Zone 2 (Outer 20')
- AE (100 yr Floodplain)

1 inch = 75 feet
0 75 150 Feet

3 - ENVIRONMENTAL FEATURES
<table>
<thead>
<tr>
<th>Resource</th>
<th>Project Activity</th>
<th>Temporary Impacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topography</td>
<td>Grading</td>
<td>Minimal - disturbances associated with the transmission line and air burst pipe; 0.07 acre of disturbance within the 100-year floodplain</td>
</tr>
<tr>
<td>Soils</td>
<td>Disturbance</td>
<td>Minimal - Approximately 3 acres of total soil disturbance; erosion control measures would be installed</td>
</tr>
<tr>
<td>Land Use</td>
<td>Alter land use</td>
<td>None</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Loss of agricultural land</td>
<td>None</td>
</tr>
<tr>
<td>Public / Recreation Sites</td>
<td>Disturbance &amp; land clearing</td>
<td>Minimal – Temporary disturbances during construction to Jordan Lake and ATT trail users</td>
</tr>
<tr>
<td>Archeological / Historic Sites</td>
<td>Land clearing</td>
<td>None</td>
</tr>
<tr>
<td>Air Quality</td>
<td>Increase emission sources</td>
<td>From construction equipment</td>
</tr>
<tr>
<td>Noise Levels</td>
<td>Construction noise</td>
<td>From construction equipment</td>
</tr>
<tr>
<td>Wetlands &amp; Streams</td>
<td>Disturbance</td>
<td>No direct impacts to wetlands or streams are anticipated; allowable buffer impacts may occur</td>
</tr>
<tr>
<td>Water Resources</td>
<td>Increase discharge at outfall; Construction in Water Supply Watershed</td>
<td>Minimal - Erosion control measures would be installed</td>
</tr>
<tr>
<td>Fish / Shellfish</td>
<td>Increase discharge at outfall</td>
<td>Minimal - Erosion control measures would be installed</td>
</tr>
<tr>
<td>Forest / Vegetation</td>
<td>Land clearing</td>
<td>Minimal - Erosion control measures would be installed</td>
</tr>
<tr>
<td>Wildlife and Natural Vegetation</td>
<td>Land clearing</td>
<td>Minimal - Erosion control measures would be installed</td>
</tr>
<tr>
<td>Endangered / Threatened Species</td>
<td>Disturbance, Land clearing</td>
<td>None</td>
</tr>
</tbody>
</table>

3 - ENVIRONMENTAL FEATURES
CAWTF Expansion Schedule

CAWTF Phase III Expansion EA

Comment Period Begins

Scoping Letter Issued for EA
July 2010

Scoping Comments Received / Begin Draft EA
August 2010

Draft EA Submitted for NC DENR Review
December 2010

NC DENR Review Comments Received
February 2011

Draft EA Submitted for Other Agency Review
March 2011

Begin Preliminary Engineering
Spring 2011

Agency Concurrence on Response to Comments
Summer 2011

We are here

Comment Period Ends

Public Meeting
January 2012

Complete Preliminary Engineering
January 2012

Respond to Comments / Finalize EA / FONSI Issued
March 2012

Final Design
Spring 2013

Permitting / Bidding / Award
Fall 2013

Construction Complete
Fall 2015

Start-up
Winter 2015 / 2016