

Natural Environment

NCDOT – PDEA / Natural Environment Section





Natural Resource Investigations

- Why??
 - because it's the law
 - because you need a permit
- What??
 - environmental documentation
(not necessarily a document)



Natural Resource Investigations



NOTES:
 1) PRELIMINARY JD REVIEW AREA CONSISTS OF ONLY WETLANDS/STREAMS WITHIN GREENWAY ALIGNMENT.
 2) WETLANDS & STREAMS BASED ON FIELD SURVEY OF WETLAND DELINEATION

<table border="1"> <tr> <td>Project:</td> <td>CRABTREE CREEK GREENWAY (LAKE CRABTREE)</td> </tr> <tr> <td>Client:</td> <td>CARY</td> </tr> <tr> <td>Location:</td> <td>WAKE COUNTY</td> </tr> <tr> <td>State:</td> <td>NORTH CAROLINA</td> </tr> </table>	Project:	CRABTREE CREEK GREENWAY (LAKE CRABTREE)	Client:	CARY	Location:	WAKE COUNTY	State:	NORTH CAROLINA	<p>WETLAND LOCATION EXHIBIT - OVERALL</p>	<p>WITHERS & RAVENEL ENGINEERS PLANNERS SURVEYORS</p>	<p>Scale: 0</p>
Project:	CRABTREE CREEK GREENWAY (LAKE CRABTREE)										
Client:	CARY										
Location:	WAKE COUNTY										
State:	NORTH CAROLINA										



Natural Resource Investigations



FIGURE 2

PROJECT STUDY AREA MAP

TIP No. C-5165, High House Road Intersection Improvements
Prepared for Stewart, Inc. July 25, 2014





Jurisdictional Considerations

- Wetland and Stream Delineations
 - for adherence to Clean Water Act
 - conducted by qualified individuals
- Stream Classifications
 - NCDEQ designation -- GIS layer and website
<http://portal.ncdenr.org/web/wq/ps/csu/classifications>
 - obtain GIS layer from CGIA
<http://data.nconemap.gov/geoportal/catalog/main/home.page>



Jurisdictional Considerations

- Trout Counties
- Buffer Rules
 - Randleman and Jordan
- Anadromous fish
 - see affected counties

<https://connect.ncdot.gov/resources/Environmental/Pages/Environmental-Compliance-Guides.aspx>



Jurisdictional Considerations

- Natural Resources Technical Report (NRTR)
 - used by PDEA-NES

<https://connect.ncdot.gov/resources/Environmental/Pages/Environmental-Compliance-Guides.aspx>

- Pre-Construction Notice

<http://www.saw.usace.army.mil/Portals/59/docs/regulatory/regdocs/Permits/PCN1-4-2009interactive-reader-enabled2013-06.pdf>



Threatened & Endangered Species

- Endangered Species Act (ESA) Compliance
- List of species for each county found here

http://www.fws.gov/raleigh/species/cntylist/nc_counties.html

- Federal and State Funded Projects -- if you have a federal nexus, Section 7 of the ESA applies
 - Federal Permit
 - Federal Funding
 - Federal Land



Threatened & Endangered Species

- Natural Heritage Data Explorer

<https://ncnhde.natureserve.org>

- Bald Eagle

- must be addressed for all counties

<https://connect.ncdot.gov/resources/Environmental/Pages/Environmental-Compliance-Guides.aspx>

- Biological Conclusion

- must be clear and defensible

<https://connect.ncdot.gov/resources/Environmental/Pages/Environmental-Compliance-Guides.aspx>



Credentials

- Biological Degree
- Show that you have had training in threatened and endangered species (T&E) surveys, wetland and stream delineation by:
 - classes or workshops attended
 - trained by another qualified professional
 - past related work experience
- Credentials for listed mussels, fish, or bats



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Questions?

