

Point Source Inventory - Mission Project

I. Introduction

North Carolina Department of Environment and Natural Resources - Division of Water Quality (NCDENR-DWQ) is responsible for managing the water quality of the state's freshwater resources. The NCDENR-DWQ relies on the basinwide management plan developed for each river basin. Each plan is evaluated and, based upon water quality monitoring, revised every 5-years. The goals of the plan are to identify and restore full use to impaired waters, protect highly valued resource waters, and manage problem pollutants. The primary component of a basinwide plan is the process of permitting point source, wastewater treatment facilities through the National Pollutant Discharge Elimination System (NPDES).

A portion of the water quality issues addressed by various agencies in the FERC relicensing process was the identification and inventory of the point source discharges upstream, downstream and within project waters. Therefore, the objective of this report is to provide an inventory of the NPDES discharges for the entire watershed of the Hiwassee River beginning at Chatuge Dam and continuing until Hiwassee Reservoir.

II. Methods

An inventory of the NPDES permits for the respective river basins was collated in January, 2002. Duke Power Company had in its GIS data base a list of the NPDES permits on record as of November, 1997. In order to update the inventory, a data request from the NCDENR - Division of Water Quality for the NPDES permits on record as of December, 2001 was requested. Upon obtaining these records, a comparison with the 1997 records revealed numerous point source discharges listed in the 1997 records were not listed in the 2002 data base. Therefore, a complete record of the NPDES permits since 1997 was obtained from the various sources listed in Table 1. Duplicate records between databases were deleted.

III. Results

The results of the collation of the various databases are presented in Table 2. If the respective category is blank, that data was not available from the database supplied by the state. No NPDES discharges were listed downstream of the Mission dam prior to the headwaters of Hiwassee Reservoir.

Table 1. List of Sources to Obtain NPDES Permit Information

Data Source	Data acquired	Source	Obtained via	Internet URL
1999	01/17/02	Georgia Department of Natural Resources Environmental Protection Division	Download from agency website	http://www.ganet.org//dnr/environ/techguide_files/gsb/dr0021.zip
1994	11/06/97	North Carolina Center for Geographic Information and Analysis	Download from agency website	http://www.ncmapnet.com/
2000	08/24/00	North Carolina Center for Geographic Information and Analysis	Download from agency website	http://www.ncmapnet.com/
2001	01/16/02	North Carolina Department of Environment and Natural Resources Division of Water Quality	Attachment to email from Charles Weaver responding to request for data	

Table 2. NPDES Permits - Hiwassee River Basin (Upstream of the Mission Project)

Data Source	PERMIT #	FACILITY	RECEIVING STREAM	TYPE	DATE ISSUED	DATE EXPIRES	PERMITTED FLOW (gal/day)	COUNTY	Longitude	Latitude
2001	NC0027332	TVA Chatuge Hydro Plant	Hiwassee River	Industrial Process & Commercial Wastewater Discharge	10/19/98	8/31/02	not limited	Clay	83° 47' 30.00" W	35° 1' 10.00" N
2001	NC0026697	Hayesville WWTP	Town Creek	Municipal Wastewater Discharge < 1MGD	-	3/31/02	97000	Clay	83° 49' 0.00" W	35° 2' 35.00" N
1994	NCG550427	Jimmy J. Davenport Residence	Tusquittee Creek	-	11/01/93	-	-	Clay	83° 44' 2.00" W	35° 4' 59.99" N