**Skipper's Marina**
**1156 Perth Road**
**Troutman, Iredell County, NC**

## NARRATIVE

The intent of this proposal is to connect the sanitary sewer from the Skipper's Marina General Store and Grill to the existing septic system at Skipper's Dry Boat Storage Office.

The Septic System at the Store / Grill is failing and under capacity to accommodate the waste from the public restrooms and grill.

Grade elevations will allow the waste from this Store / Grill to gravity flow to the septic tank at the boat storage office.

## JUSTIFICATION

The septic system at the Dry Boat Storage facility was permitted and constructed in 1987. The design flow is 1,500 gpd and is based on the following criterion:

| | | |
|---|---|---|
| 240 dry storage | @ 5 gpd = | 1,200 gpd |
| 20 wet storage | @ 10 gpd = | 200 gpd |
| 4 employees | @ 25 gpd = | 100 gpd |
| | | 1,500 gpd |

A water meter was installed and water usage records kept on a daily basis for several years. As the facility began operating at capacity, the use habits remained constant. Later usage records were taken on a monthly basis or not at all.

Water usage records for the year 1991 have been reviewed. (Attached) Also water usage records from April and May 1998 have been recorded. (Attached)

The conclusion is that water use continues to remain reasonably constant.

Maximum daily usage recorded in 1991 was 800 gpd (June 1). Normal daily water usage is below 100 gpd with 300 to 500 gallons being the range of normal high usage.

The septic system for the boat storage shows no indication of failure.

Based on these records it is concluded that there is surplus capacity in the boat storage facility to accommodate additional water flow.

The Store / Grill has requested approval to operate a grill with 15 seats. Food will be served, two meals, with disposal plates and utensils. Anticipated water usage is 600 gpd based on 40 gallons per seat.

With the installation of a new grease trap and low flow fixtures at the Store / Grill and the water usage history of the boat storage, it can reasonably be assured that daily flows into the septic system will not exceed the design flow of 1,500 gpd.

As required by the Health Department, an Agreement between the Owner of the Store / Grill, and Owner of the dry boat storage septic system shall be executed and recorded at the Iredell County Courthouse.

The agreement shall allow the Store / Grill Owner onto the premises of the septic system to make repairs, expansion, etc. as may be required in order that they stay in compliance with the Regulations.