
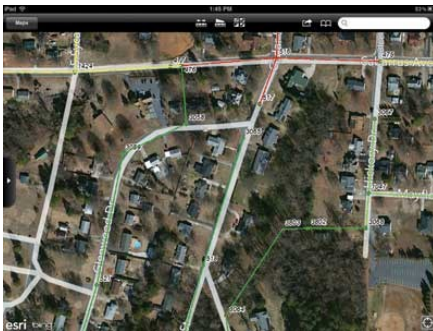


*U.S. Virgin Islands: GPS Mapping*

<b>Project:</b>	A study of the Wastewater Collection system including Condition Assessment and Mapping of Sewer Manholes	
<b>Client:</b>	U.S. Virgin Islands - Waste Management Authority (WMA)	
<b>Location:</b>	St. Thomas and St. Johns, USVI	
<b>Completion</b>	Completed	

**Objective:** This project was initiated as the first step in a system-wide characterization program intended to provide GPS locations of system components and general condition assessments of manholes and sewer piping system.



With the age of this sewer system and the level of neglect that accumulated over the decades, the newly formed WMA decided to first map the existing sewer system and carry out extensive condition assessment. MME was contracted in 2005 to provide GPS locations of sewer system assets, as well as pole camera inspection of each manhole to determine general condition. The data was collected electronically and linked to graphic files through InfoNet software to create a layered mapping system of the islands' sewer system.

Since contract inception, MME has discovered an additional 1,000 manholes and completed inspection and mapping of over 4,000. The master system maps have been completely upgraded to GPS and modernized with an alphanumeric coding system developed and implemented by MME. The software system originally employed by the WMA for this purpose was deemed inadequate and MME was asked to provide a software solution that is in full use today.



This system makes full use of the GPS information and is expandable to accept future developments and modeling. Additionally, MME took the next step of notifying the local residents of their role in system operation, such as: the impact of introducing grease and debris into the system; a functional sewer system and its relationship to the health of the residents and the environment.