Position Check

During certification inspections, both the static position of the scow and a track of movement to and from the dump area will be monitored by an independent GPS unit and compared to the DQM collected data. A contractor furnished tug will be required to transport the scow during this check, which will monitor time position of the scow, and verify that data collection intervals change as the scow enters and leaves the disposal area. Throughout the contract, the Contracting Officer's Representative (COR) will periodically verify reported positions by independently measuring with other equipment to verify locations.

Purpose: To verify accuracy of position monitoring equipment and that data collection intervals change when the scow is in the disposal area.

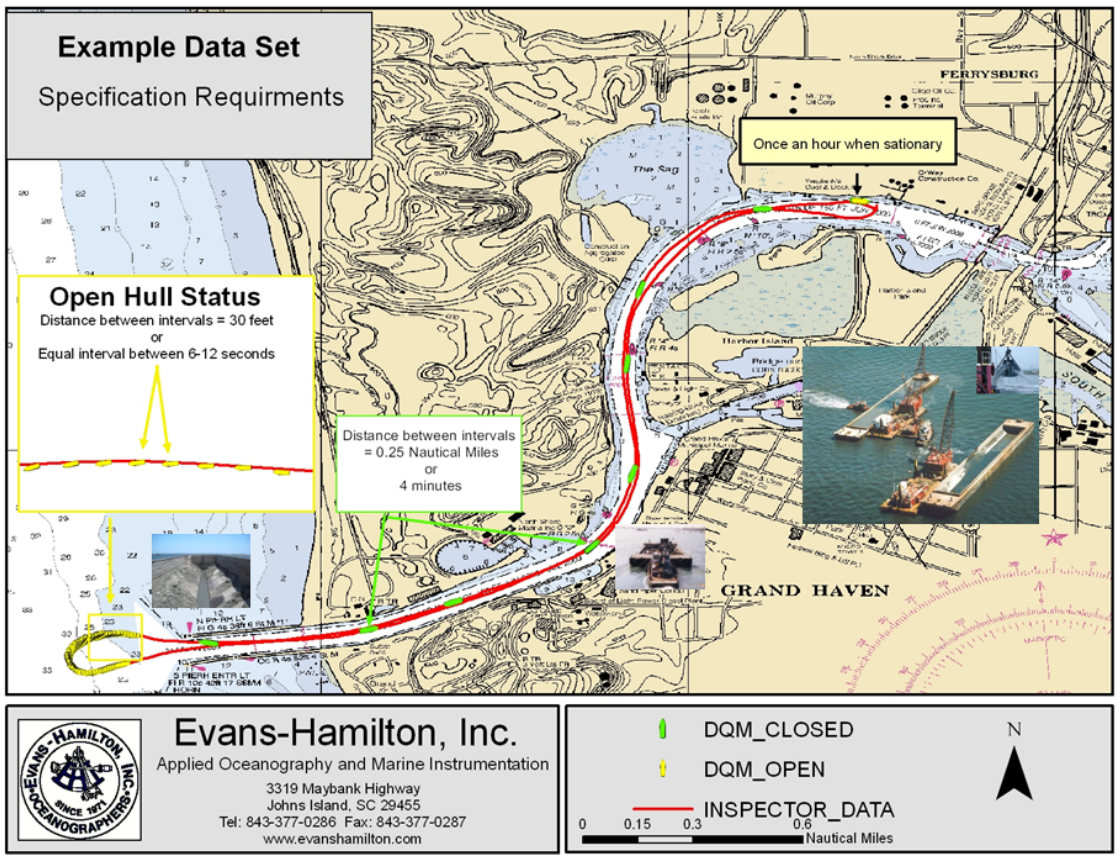
Material Required:

1) Contractor provided tug to transport scow
2) Handheld GPS unit
3) Data stream for testing period
4) Position Check Form

Static Position Procedure:

Turn on the handheld GPS and allow sufficient time to acquire the maximum number of satellites at a static location. The GPS location should be taken as close to the DQM GPS antenna location as possible (see DPIP for antenna location); the position reading indicated on the DQM Operations should also be noted at the same time (this may require a second person). The two readings will then be entered into the spreadsheet form (in degrees decimal minutes) and the difference in location calculated. Number of satellites received should be noted in remarks. Difference in position should be less than 10 feet. Note: in almost all cases this data should be entered in the columns labeled GPS1.

GPS Position Comparison					
	GPS1location		GPS2 location		Calculated Center
	Degrees	Min	Degrees	min	
DQM Number of Satellites					
Number of Satellites Inspector					
DQM Latitude					
Inspector Latitude					
Delta	0		0		0
DQM Longitude					
Inspector Longitude					
Delta	0		0		0
Position Delta (ft)	#DIV/0!		#DIV/0!		

Dynamic Position Procedure:

A handheld GPS unit shall be attached to the scow near the positioning system antenna. The contractor supplied tug will take the scow out to the disposal area and back to the original location. The track of movement recorded by the inspector's GPS shall then be plotted against the DQM data for that time period and compared, noting distance/time between positions inside and outside the disposal area.