

Water Drafting System

Equipment

- The typical capacity of a water storage tank will hold approximately 1500 to 2500 gallons. Water will be stored in the tank(s) for an average of 12 to 24 hours. Maximum water storage time within the tank will be limited to 72 hours.



Figure 1: Typical Water Storage Tank w/PVC Line

- The water would continue to be pumped from the river using 1.5" to 2" diameter soft and hard (PVC) water line(s). Once the storage tank(s) is filled, the pump, filter apparatus, and water line will be removed from the river channel.



Figure 2: Temporary Storage of water drafting equipment

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- The water pump used to pump water from the river channel into the storage tank, is a centrifugal type trash pump. The pump proposed for use is an electrical submersible pump.

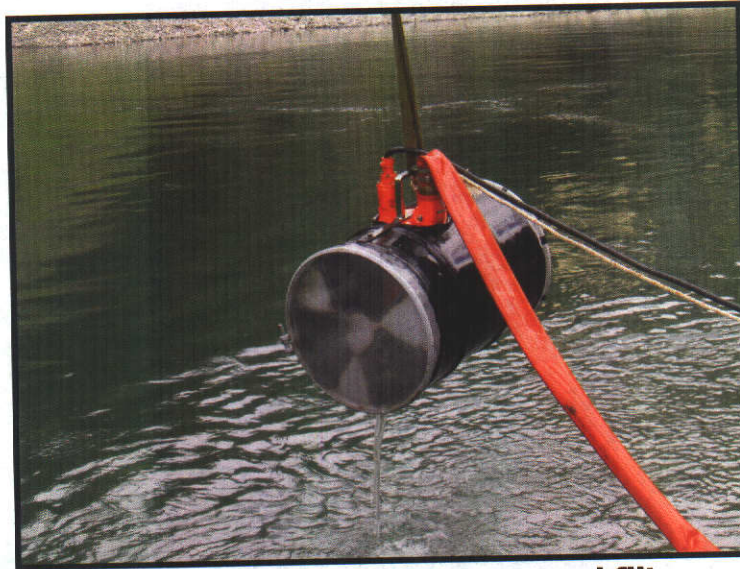


Figure 3: Submersible pump and filter



Figure 4: Placement of pump and filter at POD 1

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Figure 5: Generator Power Source



Figure 6: Flow Meter

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Access Roads:

- Southern Water Drafting Point of Diversion (POD): Access to water drafting from the south bridge will be done via the existing paved access road near Pier 2, as shown on the attached map. The water truck will be able to drive up to the temporary storage tank, via the paved road, little to no grading would be required on the river bar for vehicle access to the Point of Diversion. Proposed water storage tank locations have been shown on the map.
- Northern Water Drafting Point of Diversion (POD) Peninsula Access Road: Access to water drafting, to supply the north side of the project, utilizes the existing Peninsula Access Road (gravel) near the Pier 3 (south bridge) area, as shown on the attached map. If a water storage tank is permitted at this location, a system similar to that shown on the "Typical Water Drafting Storage System" Detail would be employed here as well. A water storage tank location has been shown on the map.