

ITEM 10209.31 M - PORTABLE SEDIMENT TANK

DESCRIPTION

This work shall consist of furnishing and installing compartmented tank container through which sediment laden water is pumped to trap and retain the sediment.

MATERIALS

The portable sediment tank shall be constructed with 208 liter drums or similar vessels welded end to end. The interior walls of the adjoining drums shall be cut as shown in the plans to create baffles. The height of the baffles shall be $\frac{3}{4}$ the diameter of the drum. Any other tanks may be used, providing that they meet the volume requirements. A clean out hatch as shown in the detail shall be installed near the down stream end of each of the connected drums, for removal of any sediment that has collected during the dewatering operation.

The end sections of the sediment tank shall have the capability to accept a 75 mm diameter intake and outlet pipe. The inlet pipe shall have a 90_ elbow attached to the inlet to direct the in flow in a downward direction. The outlet pipe shall be installed to a height not less than the height of the baffles.

The sediment tank shall have a cradle support installed under each barrel end or as ordered by the Engineer. The cradle shall be nailed together using common stud nails. The wood cradle shall be constructed as shown in the plans.

CONSTRUCTION DETAILS

The portable sediment tank shall be installed in accordance with these specifications and in reasonably close conformity with the dimensions as shown on the plans or specified by the Engineer. In the event of conflict between these specification requirements and pollution control laws, rules or regulations by other Federal or State or local government agencies, the more restrictive laws, rules or regulations shall apply.

The following formula should be used in determining the storage volume of the sediment tank; $\text{pump discharge L/Min.} \times 0.12 = \text{cubic meter storage req.}$ The Contractor shall be responsible for inspecting and cleaning out the sediment tank when the tank is _ full or as ordered by the Engineer. The tank shall be cleaned by using methods approved by the Engineer in charge. All sediment collected in the tank shall be removed from the site and disposed of by the Contractor in accordance with any State and Federal requirements.

The sediment tank shall be located for ease of clean out and disposal of the trapped sediment and to minimize interference with construction activities and pedestrian traffic.

The end section of the outlet pipe within the last section of the sediment tank shall have a filter cloth attached as shown in the plans, using a screw type radiator hose clamp. The type of cloth used shall be a geotextile fabric listed under the Turbidity Curtain (TC) category on the Department's Approved List.

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All pipe and barrel welds shall be water tight. The tank system shall be installed on a level horizontal plane or A.O.B.E.

The outlet pipe discharge shall be disposed of in a manner satisfactory to the Engineer. The Contractor shall ensure that the discharge does not cause any erosion problems. Should a problem exist after the system is installed, the Contractor shall immediately repair the site at no additional cost to the State.

MAINTENANCE:

All portable sediment tanks shall be inspected and maintained during the life of the project, including winter shutdown, etc., and such maintenance and inspection shall continue until permanent stabilization measures are in place and the temporary control measures are ordered to be removed by the Engineer.

METHOD OF MEASUREMENT

The work will be measured as the number of sediment tanks that are installed.

BASIS OF PAYMENT

The unit price bid for each sediment tank shall include the cost of equipment, labor, material, cleaning, installation, and removal of sediment necessary to complete the work. The Contractor will be paid 80% of the bid price upon the installation of the portable sediment tank and the remaining 20% upon its removal upon completion of the project A.O.B.E.