




WATERPLAY - WATER TREATMENT SYSTEM ROLES AND RESPONSIBILITIES

Below is a list of roles, responsibilities and considerations for the design and installation of a Water Treatment System from Waterplay Solutions Corp.® (Waterplay).

Client Responsibilities

WTS Design and Approvals

- Obtain Health Authority, Engineer and Local Authority approvals for the WTS, holding tank and associated piping. Waterplay can help with providing supporting documentation for the approvals.
- Provide copies of approvals to Waterplay prior to manufacturing of the WTS.
- Provide design modifications and electrical supply to Waterplay as soon as they are known so an updated design and, if required, quote can be provided.
- The WTS will need to be housed in an appropriate building or enclosure suitable to protect the WTS against vandalism and weather. In colder climates, an insulated and heated building may be necessary to protect the more sensitive equipment. Check with your local codes to determine the requirements for chemical and equipment storage.
- If supplied by Waterplay, ensure the holding tank is rated for the proposed burial depth. Standard fiberglass tanks supplied by Waterplay are rated to 5' burial. Heavy duty tanks rated for 10' burial are available for an extra cost.
- If the holding tank is being installed in a high groundwater table, anchor kits may also be required.
- The holding tank perforation (fitting) locations provided by Waterplay are only suggested locations. If the holding tank is being ordered from Waterplay, final perforation locations should be provided as soon as possible.
- Consider local requirements for disposal of the water from the spray pad, tank and backwashing of the sand filters. Connections to the storm or sanitary sewer will be required. A diverter valve is recommended to divert water from the spray pad to the sewer rather than the holding tank when the park is not in operation.
- Check valves are required on the suction lines of the feature pump and filter pump so the pumps will maintain prime. These valves are not supplied or installed by Waterplay. Check valves can be quoted by Waterplay if required after the engineer has reviewed the design.

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- A trash/debris screen is recommended after the spray park drains and before the holding tank. This is shown on the WTS drawings but is not provided by Waterplay. A trash screen can be quoted if required after the drain lines are sized by the project engineer.
 - Qualified trades are required to plumb and wire the WTS. Waterplay will not be held responsible if problems occur due to the use of unqualified trades.

Contractor Responsibilities

Pre-Commissioning of the WTS

- Holding tank must be installed and all connections complete and pressure tested.
- Tank must be backfilled according to tank manufactures recommendations.
- Tank must be cleaned and filled with fresh water. If the tank water is dirty it should be drained and refilled with fresh water.
- Fresh water fill float valve must be installed and tested. This valve is supplied by Waterplay but installed by the contractor.
- Ensure the spray pad is cleaned and all water on the pad will flow to the drains.
- The WTS should be plumbed and wired by qualified trades. The controllers should be wired to breakers, all plumbing lines to the treatment skid and park connected, flushed, and pressure tested.
- Confirm that the activators are wired and working.
- Sand should be purchased and delivered next to skid.
 - ◆ #20 silica sand
 - ◆ Purchased from any pool and spa supplier (not from a building supply)
 - ◆ TR100 filters require 600 lbs of sand **each** and the TR140 filters require 925 lbs of sand **each**.
- Chemicals purchased and delivered next to skid (typically sold in 5 gallon totes)
 - ◆ 12% sodium hypochlorite (5 gal min)
 - ◆ Pool grade muriatic acid (2 gal min) diluted 50% on site
 - ◆ Purchased from any pool and spa supplier
- The above must be completed prior to a Waterplay representative coming onsite for the commissioning.



Waterplay Responsibilities

Commissioning

A two day onsite commissioning trip is provided with all WTS units sold by Waterplay. A Waterplay technician will complete the following:

- Inspect WTS for damage during shipping. Note that the WTS should have been inspected upon receipt of the shipment and any damage reports to Waterplay within 48 hours so a shipping claim could be made.
- Verify all WTS plumbing and electrical.
- Turn on controller and set times, dates and sequencing (if change from factory program required).
- Prime feature and filter pumps.
- Add sand to sand filters.
- Add chemicals to storage tanks.
- Install the chemical probes.
- Turn on chemical feed pumps and program the chemical controller.
- Verify valve settings on the manifold to ensure proper flow to the components.
- If applicable, install UV bulbs and set-up UV controller.
- Start park sequence and WTS operation.
- Provide training to owners and maintenance staff on WTS operation and maintenance procedures including spring start up, weekly maintenance and operation and winterization duties.