WET SEASON GROUNDWATER TABLE MONITORING

Wet season monitoring of the seasonal high groundwater table may be conducted either before or after a soil evaluation in accordance with Rule 6.16.M of the Onsite Wastewater Treatment System (OWTS) Rules. A link to the current OWTS Rules is provided here: [https://rules.sos.ri.gov/regulations/part/250-150-10-6](https://rules.sos.ri.gov/regulations/part/250-150-10-6) The “wet season” extends from January 1 to April 1 of each year. When installing monitoring wells, precautions must be taken to ensure excessive fines do not enter the test pipe. Filter fabric must be placed around test pipes to minimize soil intrusion. The pipe must be capped and the ground surface immediately surrounding the test pipe mounded and tamped to prevent surface water from influencing the monitoring observations.

All wet season monitoring submittals must be completed in full and accompanied by a locus map, with the site identified, and plot plan depicting the location of test holes on the site, referenced to fixed points such as a street, utility pole, or other permanent, marked object such as a large tree or boulder. Include lot lines, plat and lot numbers, street names, north arrow and location of subsurface drains. The submittal must include the proper fee; submittals received with the incorrect fee will be returned. Test holes and fixed points must be clearly labeled and flagged in the field for easy identification.

**Subdrains**— Subsurface drains used to lower the groundwater table must be monitored through one complete wet season. Subdrains must be constructed before the start of the wet season and monitored by the designer between January 1 through April 15 (Note: The period for subdrain monitoring is longer than the “wet season”). The Request for Water Table Verification (WTV) to monitor the effectiveness of subdrains must be submitted to the Onsite Wastewater Treatment Systems Program prior to January 30. The “Wet Season Monitoring Data” form should be used to report supplemental readings taken after Water Table Verification Applications have been submitted.

**Wet Season Monitoring**

Wet season groundwater table monitoring may be deemed necessary based on the results of a soil evaluation, pursuant to OWTS Rule 6.16.E.3. Applicants may elect to conduct wet season groundwater monitoring during the wet season prior to conducting a soil evaluation. Note that a soil evaluation **will still be required** in order to determine site suitability as part of a complete OWTS application to the Department. DEM recommends against undertaking the wet season monitoring procedure without first having conducted a soil evaluation because it may involve an unnecessary expense.

To conduct wet season testing at the site a licensed Class II or Class III Licensed Designer or Licensed Soil Evaluator must follow the procedures established in OWTS Rule 6.16. The Designer or Soil Evaluator monitors and takes measurements of the groundwater table depth in each test pipe at appropriate times during the wet season. The information is recorded on the Water Table Verification form and submitted to DEM, postmarked by April 1. The "Wet Season Monitoring Data" form should be used to report supplemental readings taken after the WTV application has been submitted or if the Designer wishes to change his/her determination of the seasonal high groundwater table.
Individual Lots
Wet season groundwater monitoring forms for individual lots are available at DEM's offices at 235 Promenade Street, Providence, RI. Contact the OWTS Permitting Program in advance. Contact information is available on our website: www.dem.ri.gov/septic. You may also reach the OWTS Permitting Program by telephone via (401) 222-3961 or by email via DEM.OWTS@dem.ri.gov.

For each test hole, at least three groundwater table measurements must be taken. The observations must be made a minimum of 5 days apart. Per OWTS Rule 6.16.M.4.b, the first reading must be taken no sooner than 48 hours after excavation. Wet season groundwater monitoring submittals which do not include at least 3 readings for each test hole will be returned. On lots where the depth to groundwater is expected to be less than 4 feet, monitoring should be conducted throughout the entire wet season to assure that the seasonal high groundwater table has been observed.

The fee for wet season monitoring is $100.00 per OWTS.

Subdivisions
Submittals shall be made on the postcard-size “Request for Verification of Ground Water Table” form and shall include the Subdivision Suitability Application and the proper fee. A plan depicting test hole location and trails (as applicable) must also be included. All trails and test holes must be flagged in the field with trail flagging placed not more than 50 feet apart.

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The fee for wet season monitoring for subdivision lots is $100.00 per OWTS.

Monitoring Depth to Groundwater and Estimating the Seasonal High Groundwater Table
DEM monitors water table fluctuations throughout the year by periodically measuring water table depths at test wells in various locations around the state. DEM posts summaries of the data on its website at www.dem.ri.gov/septic.

The United States Geological Survey also maintains a database of hydrological information for Massachusetts and Rhode Island. Information on groundwater table levels may be found via a link titled “USGS Water Table Information” located on our website: www.dem.ri.gov/septic.