



Waterproofing Systems

Groundwater analysis procedure for using *Mapeproof™ HW* and *Mapeproof SW*

Because all bentonite clay-based waterproofing membranes function as a result of hydration, their use requires that when groundwater is present in a project, that groundwater must be analyzed for contamination and salinity. Testing the groundwater will determine which *Mapeproof* bentonite clay waterproofing membrane – *Mapeproof HW* or *Mapeproof SW* – should be employed.

As a result, the following procedure should be used for collecting and submitting groundwater samples.

1. The waterproofing contractor is responsible for collecting groundwater from the project site and shipping it to MAPEI.
2. The water sample must be 64 U.S. fluid ounces (1.89 L) of collected groundwater. The sample must be taken from the lowest part of the site in the water table or from dewatering wells. The sample must not contain surface water from rain, other forms of precipitation or other sources.
3. The waterproofing contractor must include the following information with the water sample, in order for the results to be forwarded:
 - Project name
 - Project address
 - Waterproofing contractor's name
 - Waterproofing contractor's mailing address
 - Waterproofing contractor's phone number
 - Waterproofing contractor's e-mail address
4. The water sample should be shipped in an uncontaminated, sealed plastic container to:

MAPEI Corporation
Attn: Technical Services – Water Sample Test (Waterproofing)
1144 East Newport Center Drive
Deerfield Beach, FL 33442
5. MAPEI will test the submitted groundwater samples for contamination and compatibility with *Mapeproof HW* and *Mapeproof SW* waterproofing membranes. MAPEI will then provide the waterproofing contractor with a written *Mapeproof* membrane recommendation, usually within two to three weeks of when water samples are received.
6. The waterproofing contractor can submit the written *Mapeproof HW* or *Mapeproof SW* membrane recommendation to the appropriate parties.

Please contact the waterproofing division of MAPEI's Technical Services Department if you have any question about this issue or procedure.

