

# AquaBlok® Installation Profile



**Site Location:** *US EPA Region 5*  
Tontogany Waste Water Treatment Plant, Tontogany, Ohio

**Project Status:** Completed in October 2008

Tontogany Waste Water Treatment Plant (WWTP)

**Setting / Purpose:** Final Wastewater Treatment Pond at WWTP Facility – Considered “Clean Water” – Seeping through Containment Berm into Existing Surrounding Low Area. Installation of Trench Cut-Off Adjacent to Pond Completed to Prevent Continued Seepage Through Existing Porous Berm Soils to Low Areas.

**Contaminant(s) of Concern:** Seepage through the final wastewater treatment pond (out of a total of five ponds) was considered to be “clean water”, though still warranted the design & implementation of a cut-off wall. The trench was excavated a couple feet beyond the visible seepage depth to an approximate total depth of 7'-7'6". The initial trench section was excavated to approximately 20' in length, then backfilled with the AquaBlok material and partially hydrated to hold the material in place. The AquaBlok material was backfilled from approximately 7'6" (i.e., the bottom of the trench excavation) to approximately 2'0" below ground surface (or, about 1'6" above the silt layer). Further lengths of the trench were subsequently excavated in two additional passes, resulting in an overall trench length of approximately 48'. The same method of backfilling was followed for these additional trench lengths.



(\*) NOTE: Follow-up material order placed approximately 1 month later due to continued seepage around end of cut-off wall.

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**Method of AquaBlok Placement:** AquaBlok 3070FW(#8) material was delivered to the site in (approx.) 3,000lb bulkbags via flatbed trailer belonging to Northwestern Water and Sewer District (NWWSD). The operator hoisted the bulkbags off of the trailer using chains and a suspended bulkbag-hoisting frame attached to the loader bucket. The operator would then position the bulkbags of material overtop of the trench area, while the other person untied the spout at the bottom of the bulkbag, thereby releasing the material into the open trench below.



**Photo 1:** Initial (approx.) 20' long trench excavation



**Photo 2:** Material installed directly from bulkbags



**Photo 3:** Final trench section excavated and now being backfilled with AquaBlok 3070FW(#8).



**Photo 4:** Final 48' long (approx.) x 18" wide trench cut-off wall backfilled with AquaBlok 3070FW(#8).