

Chapter 7 Well and Boring Acceptance Criteria

7-1. Well Criteria

Wells should be acceptable to the FA. Well acceptance should be on a case-by-case basis. The following criteria should be used along with individual circumstances in the evaluation process.

a. The well and material placement should meet the construction and placement specifications of the drilling and well installation plan unless modified by amendments.

b. Wells should not contain portions of drill casing or augers unless they are specified in the drilling plan as permanent casing.

c. All well casing and screen materials should be free of any unsecured couplings, ruptures, or other physical breakage/defects before and after installation.

d. The annular material (filter pack, bentonite, and grout) of the installed well should form a continuous and uniform structure, free of any detectable fractures, cracks, or voids.

e. Any casing or screen deformation or bending should be minimal to allow the insertion and retrieval of the pump and/or bailer optimally designed for that size casing, e.g., a 75 mm (3-in.) pump in a 100 mm (4-in.) schedule 80, PVC casing is optimal; a 50 mm (2-in.) pump in a 100 mm (4-in.) casing is not optimal.

f. All joints should be constructed to provide a straight, nonconstricting, and watertight fit.

g. Completed wells should be free of extraneous objects or materials; e.g., tools, pumps, bailers, packers, excessive sediment thickness, grout, etc. This prohibition should not apply to intentionally installed equipment per drilling plan.

h. For those monitoring wells where the screen depth was determined by the FDO, the well should have sufficient free water at the time of the water-level measurement to obtain a representative groundwater level for that well. These same wells should have sufficient free water at the time of initial sampling, which is representative of the desired portion of the aquifer for the intended chemical analyses.

i. All boring logs, well diagrams, development records, topographic survey data, and related photographs and negatives should have been completed per the drilling plan and received by the FA.

j. Keys to the padlocks securing the well covers should be in the possession of the FA and the FA project representative prior to well acceptance.

7-2. Abandoned/Decommissioned Borings and Wells

Borings not completed as wells should be abandoned/ decommissioned per paragraph **3-14** of this manual.

7-3. Well and Boring Rejection

Wells and borings not meeting drilling plan criteria are subject to rejection by the FA.