

16 AWWA C105/A21.5-10

Table A.1 Soil-test evaluation

Soil Characteristics Based on Samples Taken Down to Pipe Depth		Points*
/ Resistivity—ohm-cm (based on water-saturated soil box):	<1,500	10
	≥1,500–1,800	8
	>1,800–2,100	5
	>2,100–2,500	2
	>2,500–3,000	1
	>3,000	0
	/ pH:	0–2
2–4		3
4–6.5		0
6.5–7.5		0†
7.5–8.5		0
>8.5		3
Redox potential:		> +100 mV
	+50 to +100 mV	3.5
	0 to +50 mV	4
	Negative	5
/ Sulfides:	Positive	3.5
	Trace	2
	Negative	0
/ Moisture:	Poor drainage, continuously wet	2
	Fair drainage, generally moist	1
	Good drainage, generally dry	0

*Ten points or greater indicates that soil is corrosive to ductile-iron pipe; protection is needed. Refer to paragraph A.3 for a description of Uniquely Severe Environments and additional considerations.

†If sulfides are present and low (<100 mv) or negative redox-potential results are obtained, add three points for this range.