

6.1 Site & Soil Evaluation Equipment Checklist

Recording Forms

- Uniform State of Arizona Site Investigation Report form
- County recording forms
- Site evaluation map
- Preliminary evaluation checklist

Reference Material

- AZ Soil & Site Evaluation for Onsite Wastewater Treatment Manual
- Munsell Color book
- County codes
- Soil survey report

Recording Instruments

- Pencils, Pens
- Calculator
- Permanent markers
- Clipboard

Measuring Devices

- Short tape measure
- 100-ft tape measure
- Measuring wheel
- Surveying rod
- Hand level
- Watch/stopwatch with second hand
- Compass
- Clinometer
- Spray bottle (for texturing)

Hole-Digging Equipment

- Probes with extensions
- Augers
 - Sand
 - Mud
 - Standard
- Tile spade
- Digging bar
- Post-hole digger
- Rock pick
- Knife or screw driver
- Horizontal ID markers (nails or screws)
- Rain gutters, 6-ft lengths
- Shovels

Perc-Test Equipment

- Pre-soaking device
- Mesh bag with gravel
- Hole scarifier
- Water reservoir
- Water-drop measuring device

Miscellaneous Equipment

- Camera
- "Drainfield: Keep Off" sign
- Stakes
- Flagging material

6.2 Equipment List for Site Investigation & Soil Evaluation

Site Evaluation Tools		
Item	Comment/Description	Provider
Triangle scales		Staples
Ruler	12 inch, plastic	Staples/Walmart
Hand level		Forestry Suppliers
Tape measure, short (25 feet)	inches, feet, 1/10ths; \$10.00	Home Depot/Forestry Suppliers
Tape measure, (100 feet)	Engineers units; \$7.00	Home Depot/Forestry Suppliers
Post-hole digger		Home Depot
Mallet/hammer/ sledge hammer		Home Depot
String		Home Depot
Carpenter's level		Home Depot
Wooden stakes		Home Depot
Flagging		Home Depot
Transit/laser level, tripod		Plateau Lasers/Forestry Suppliers
Surveying rod		Forestry Suppliers
Bucket augers, extensions		AMS

Soil Evaluation Tools		
Item	Cost	Provider
Acid bottles, Nalgene	\$2.00	Forestry Suppliers
Hand lens	\$7.00	Forestry Suppliers
Pocket magnifier	\$14.00	Forestry Suppliers
Compass	\$17.00	Forestry Suppliers
Spray bottle	\$2.50	Walmart
Munsell Color Book	~ \$165	Forestry Suppliers; Amazon
Globe Soil Color Book	~\$115	Amazon
USDA Field Book (ver. 2 or ver. 3)	~ \$100 - \$150	USDA - General Purchasing Office; Amazon
Sand Card	\$9.99 each plus S&H	Crops & Soils Club, Plant & Earth Science Dept, Univ. Of Wisconsin-River Falls, 401 S. 3 rd St., River Falls, WI 54022; 715-425-3345; http://uwrf.orgsync.com/org/ cropsandsoilsclub/home
Soil sieve, 3" diam., brass, #10 mesh	\$25	Hogentogler & Co., Inc.
Soil sieve pan, 3" diam., brass	\$9.00	Hogentogler & Co., Inc.
Graduated cylinder, 1000 mL		
Plastic beaker, 1000 mL, straight-sided	\$5.70	Nasco
Stop watch, with sweep second hand		Staples/Walmart/Sporting goods store
Calculator		Staples/Walmart
Stakes		Home Depot
Masonry trowel		Home Depot
Buckets for rinsing		Home Depot
Soil Standards	around \$54 plus S&H	Univ. of Arizona Soil Science Club, Dept of Soil, Water, & Environmental Science, 1177 E. 4th St., Tucson, Arizona 85721-0038; 520-621-1646

6.3 Onsite Wastewater Treatment Equipment Suppliers

Rather than try to keep up with all the new technologies, equipment, supplies, company contact information, and websites, I am now recommending that you use a great website managed by the PUMPER magazine. It has a searchable database and provides all of these functions online!

Go to: <http://www.pumper.com>

Happy Searching!