



## Checklist for Selection of Predrainage Methods

Conditions	Wellpoint Systems	Suction Wells	Deep Wells	Eductor Systems	Trench/Tile
<b>Soil</b>					
Silly and clayey sands	Good	Poor	Poor to Fair	Good	Good <sup>a</sup>
Clean sands and gravels	Good	Good	Good	Poor	Good
Stratified soils	Good	Poor	Poor to Fair	Good	Good <sup>a</sup>
Clay or rock at subgrade	Fair to Good	Poor	Poor	Fair to Good	Good <sup>b</sup>
<b>Hydrology</b>					
High permeability	Good	Good	Good	Poor	Good
Low permeability	Good	Poor	Poor to Fair	Good	Good
Proximate recharge	Good	Poor	Poor	Fair to Good	Good
Remote recharge	Good	Good	Good	Good	Good
<b>Schedule</b>					
Rapid drawdown required	OK	OK	Unsatisfactory	OK	OK
Slow drawdown permissible	OK	OK	OK	OK	OK
<b>Excavation</b>					
Shallow (<20 ft)	OK	OK	OK	OK	OK
Deep (<20 ft)	Multiple stages required	Multiple stages required	OK	OK	Special Equipment
Cramped	Interferences	Interferences	OK	OK	May be OK
<b>Characteristics</b>					
Normal Spacing	5 - 10 ft (1.5 - 3 m)	20 - 40 ft (6 - 12 m)	>50 ft (15 m)	10 - 20 ft (3 - 6 m)	N/A
<b>Range of Capacity</b>					
Per unit	0.1 - 25 gpm	50 - 600 gpm	0.1 - 3000 gpm	0.1 - 40 gpm	N/A
Total System	Low - 5000 gpm	2000 - 25,000 gpm	Low - 60,000 gpm	Low - 1000 gpm	Low - 2000 gpm
<b>Efficiency with accurate design</b>					
	Good	Good	Fair	Poor	Good

<sup>a</sup> If backfilled with sand or gravel.

<sup>b</sup> If keyed into clay or rock.