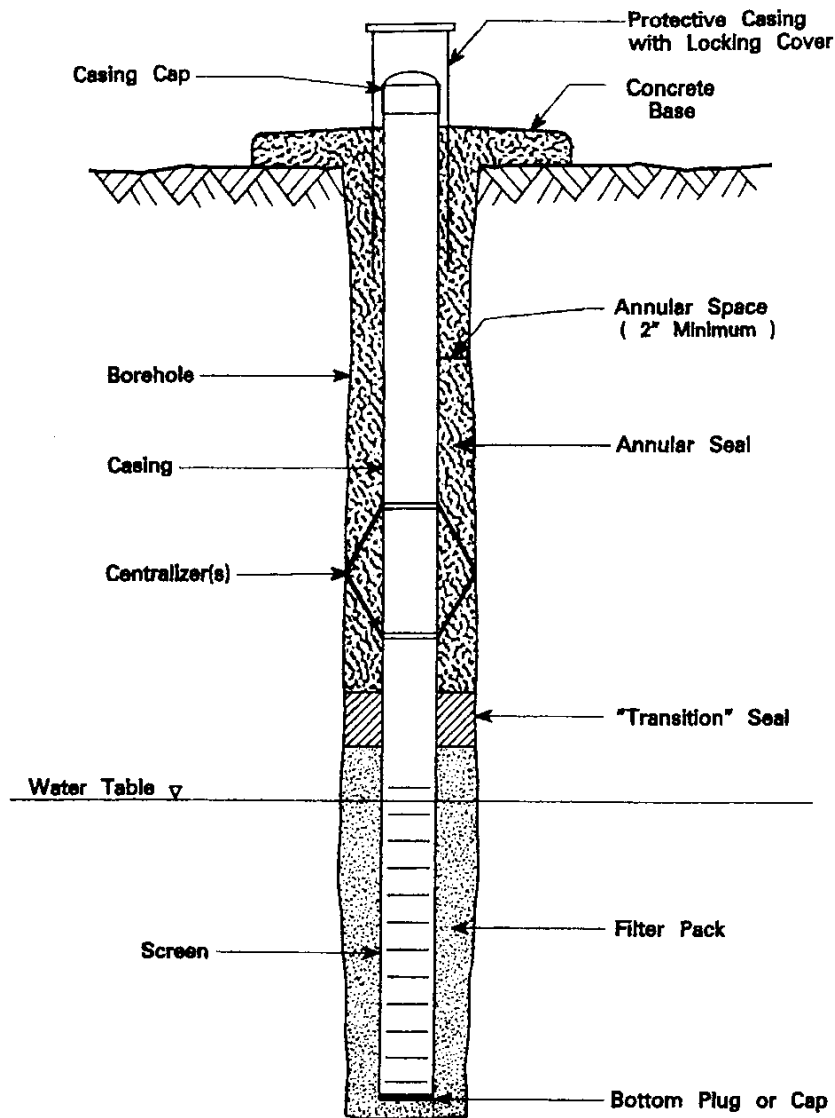


Figure 3. CROSS SECTION OF A TYPICAL MONITORING WELL

(NOTE: Schematic, not to scale)

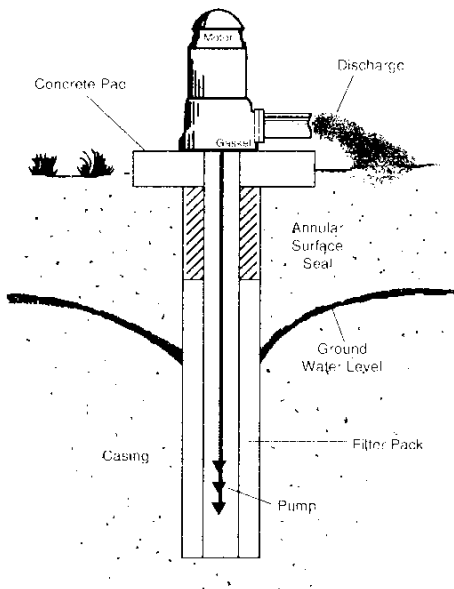


1 Why are DWR's well standards necessary?

DWR's well standards provide **minimum** standards for the construction, alteration, maintenance, or destruction of wells to prevent pollution of ground water. Ground water is polluted when poor-quality water or chemicals enter a well from the surface and that well provides a conduit for the pollution to enter the ground water. Pollution also occurs when poor-quality ground water or chemicals already in an underground layer enter a well and then move through the well to another layer containing good-quality water.

2 What do DWR's well standards cover?

By law, DWR is responsible for issuing standards for constructing, altering, maintaining, and destroying wells to prevent pollution. DWR issues standards for three types of wells—**water wells, monitoring wells, and cathodic protection wells.**



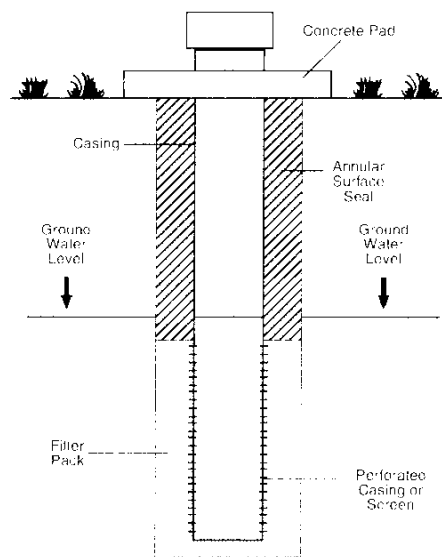
Water Well

Items addressed by DWR well standards include:

- Setback of wells from pollution sources
- Casing materials
- Annular seal dimensions and materials
- Surface features—pads, locks, covers, backflow preventers, vaults
- Well development
- Disinfection
- Repair
- Destruction

Water wells are used to supply water for drinking, industrial processing, and irrigating.

Monitoring wells are specialized wells in which the depth to ground water can be measured and samples of ground water can be collected for analysis.



Monitoring Well

The *State Water Resources Control Board* has requirements for constructing ground water monitoring wells at regulated facilities, such as municipal landfills and gasoline stations with underground tanks. The *State Water Board* and its *Regional Water Quality Control Boards* enforce these standards. The *U. S. Environmental Protection Agency* has published standards for some types of wells.

How do you get more information about DWR's well standards?

For more information contact DWR's well standards coordinator at:

Department of Water Resources
Division of Local Assistance
P. O. Box 942836
Sacramento, CA 94236-0001
(916) 327-8861

Or contact your local DWR District Office:

Northern District (916) 527-6530
2440 Main Street
Red Bluff, CA 96080-2398

Central District (916) 322-7164
3251 "S" Street
Sacramento, CA 95816-7017

San Joaquin District (209) 445-5481
3374 E. Shields Avenue
Fresno, CA 93726-6990

Southern District (818) 543-4600
770 Fairmont Avenue
P. O. Box 29068
Glendale, CA 91209-9068

How do you get a copy of DWR's well standards?

For a copy of DWR's well standards contact:

Department of Water Resources
Bulletins & Reports, Room 338
P. O. Box 942836
Sacramento, CA 94236-0001
(916) 653-1097

DWR's well standards are free to California-licensed water well drillers and the local agencies responsible for enforcing them. The standards are available to all others for \$10 a copy (plus sales tax).

How do you get more information about other agencies' well standards?

For information about other agencies' well standards contact any of the following:

State Water Resources Control Board
Division of Clean Water Programs
P. O. Box 944212
Sacramento, CA 94244-2120
(916) 739-4400

Department of Health Services
Office of Drinking Water
601 North 7th Street
P.O. Box 942732
Sacramento, CA 94234-7320
(916) 323-6111

Department of Toxic Substances Control
P. O. Box 806
Sacramento, CA 95812-0806
(916) 255-2007

U.S. Environmental Protection Agency
75 Hawthorne Street
San Francisco, CA 94105
(415) 744-1924