

What Managed Aquifer Recharge Means

Managed aquifer recharge intentionally moves water underground so it can be stored and used later.

WATER SOURCES FOR MANAGED AQUIFER RECHARGE



Stormwater



River water during wet periods

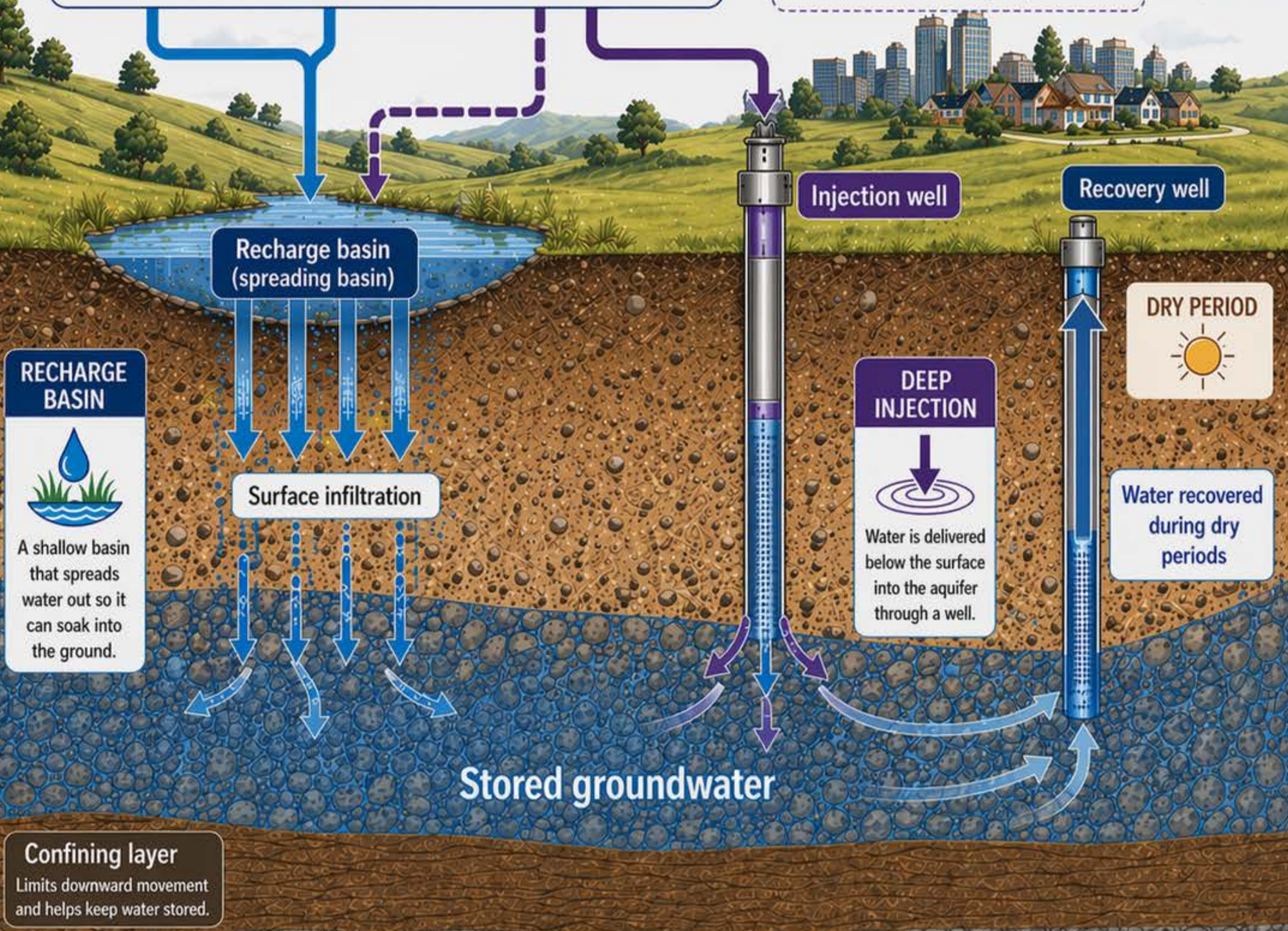


Highly treated recycled water



Treated water only:

Recharge water must meet project-specific water-quality and monitoring requirements.



RECHARGE BASIN



A shallow basin that spreads water out so it can soak into the ground.

Surface infiltration

DEEP INJECTION



Water is delivered below the surface into the aquifer through a well.

DRY PERIOD



Water recovered during dry periods

Stored groundwater

Confining layer

Limits downward movement and helps keep water stored.

HOW MANAGED AQUIFER RECHARGE WORKS



Capture water



Recharge aquifer



Store underground



Recover later



Policy takeaway:
MAR turns suitable aquifers into underground storage infrastructure.



- Builds drought resilience
- Protects water supplies
- Supports sustainable water management