

Settling

Source
ProtectionSafe
Transportation**Sedimentation**

Filtration

Disinfection

Safe Storage

What is it?

Settling involves letting a container of water sit, usually for 24 hours, allowing particles to settle to the bottom of the container. The water is then gently poured or ladled into a clean container, leaving settled particles behind. This process can be repeated two or three times as needed. It removes some turbidity and pathogens from water and is often used as a first step in treatment, before filtration or disinfection.



Performance

Microbiological Effectiveness:

Parameter	Effectiveness
Bacteria	Not Effective (<80%)
Viruses	Not Effective (<80%)
Protozoa	Somewhat Effective (>80%)
Helminths	Somewhat Effective (>80%)

Other Parameters

Effectiveness at removing turbidity varies, depending on the size of suspended particles.

Source Water Requirements

No specific limits.

Capacity

Volume treated depends on container size. Water can be settled for a few hours or several days, depending on its quality.

Lifespan

Containers may need to be replaced over time.

Ease of Use & Acceptability

Operation & Maintenance

User allows water to sit in a container for a given period, usually 24 hours. During this time, particles settle to the bottom of the container. The user then gently pours the water into another clean container. This can be repeated two to three times. Containers should be cleaned between uses.

Repair & Replacement

Containers may need to be replaced over time.

User Considerations & Preferences

This method requires multiple buckets and advance planning. Settling is often used as first step in treatment, before filtration or disinfection.

Feasibility

Availability

Containers can be found anywhere.

Cost

Only requires containers (local prices vary).

Size & Weight

Many buckets are sized to hold 20 L of water, and can stack easily. Other containers vary in size and weight.

More Information

Details and references: www.hwts.info/products-technologies/241df321/Settling

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