

# Central Valley Solution Criteria


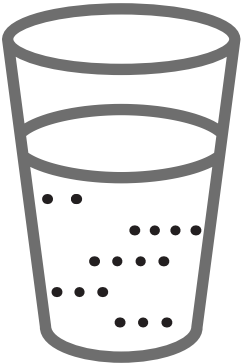
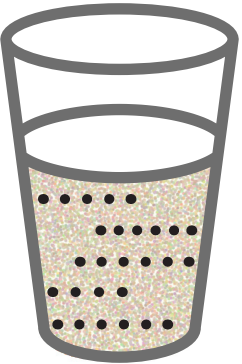
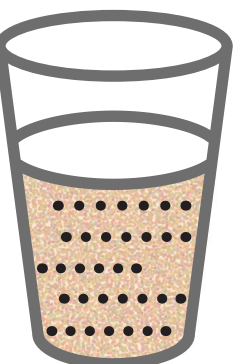
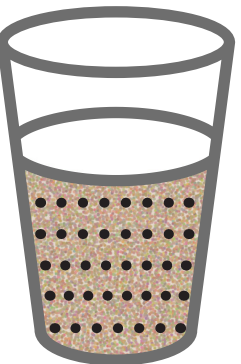
- Pollution must be removed from the water for public use.
- A large volume of water should be cleared in each processing run.

## Model Solution Criteria

- Processed water should be visibly clear with very little observable pollution.
- At least 9/10 of the water processed in each run should be cleared.

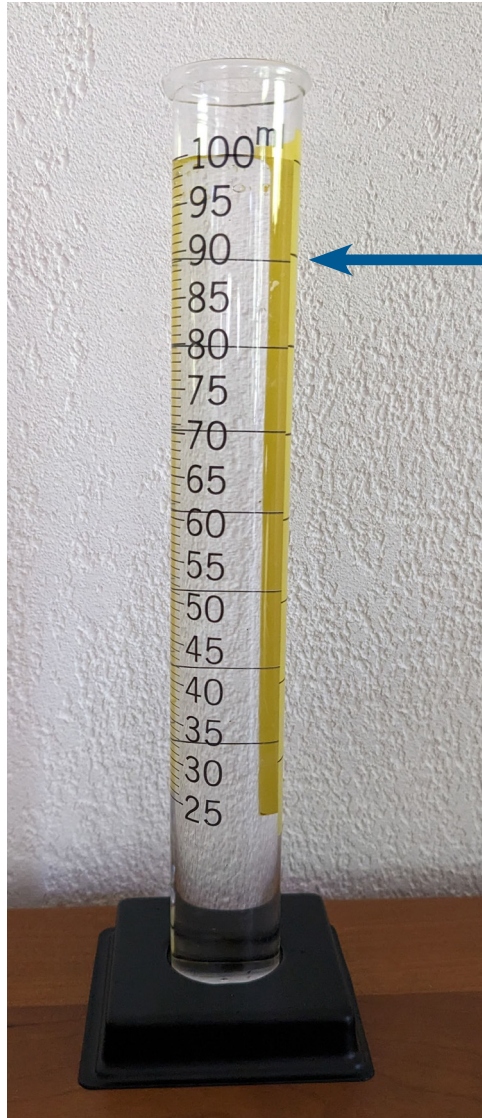
# Water Clarity Scale

Processed water should be visibly clear with very little observable pollution.

Clear	Small amount of pollution present	Somewhat cloudy	Very cloudy	Can't see through
				
0	1	2	3	4

# Volume of Water Cleared

- At least 9/10 of the water processed in each run should be cleared.


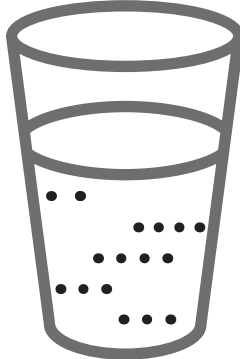
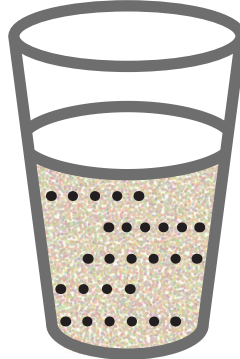
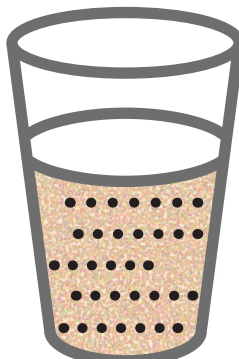
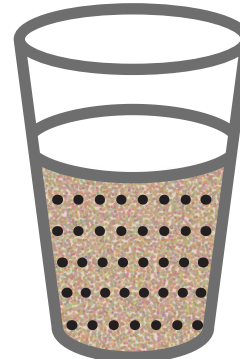


$$\frac{9}{10} \times 100 \text{ mL} = 90 \text{ mL}$$



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# Model Solution Criteria

Material	Cost	Limits
Cheesecloth	160 cm <sup>2</sup>	Cheesecloth and coffee filter cannot be used together.
Coffee filter	1	Cheesecloth and coffee filter cannot be used together.
Cotton ball	4	
Craft stick	2	
Cup	2	Pouring cup does not count.
Glue		No limit
Hole punch		No limit
Metric ruler	1	
Net bag	15 cm length	
Rubber band (large)	2	
Rubber band (small)	4	
Rug canvas	1	Cannot be cut
Scissors		No limit
Straw	2	
String	20 cm	
Tape		No limit

Each solution model must be built with at least three different materials.