

# Groundwater

Developed by: Peter C. Fletcher



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## Maximum Groundwater Level

Means the level to which groundwater rises for a duration of one month or longer during the wettest season of the year.

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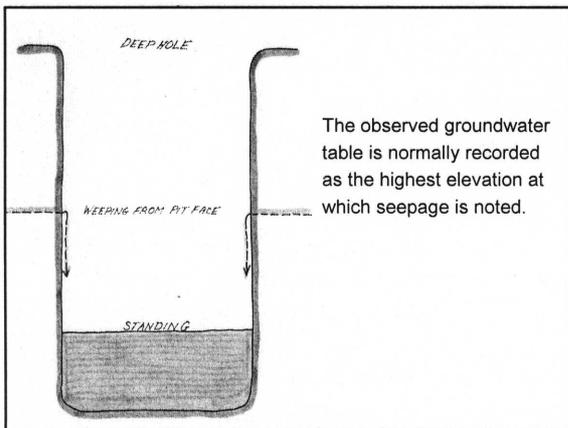
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### Determining Depth to Seasonal High Groundwater

- "Keep you head out of the hole".
- Do you homework.
- Walk the site.
- View groundwater flow as three dimensional model.
- Use common sense.

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### Kinds of Groundwater Systems

1. Unconfined, true or apparent water table
2. Perched water table
3. Confined, artesian effect

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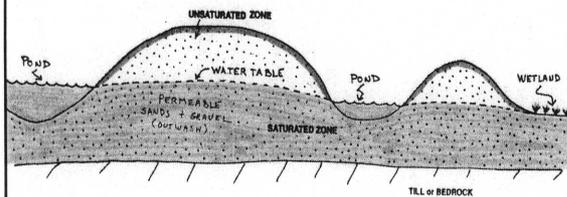
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### Unconfined Groundwater System



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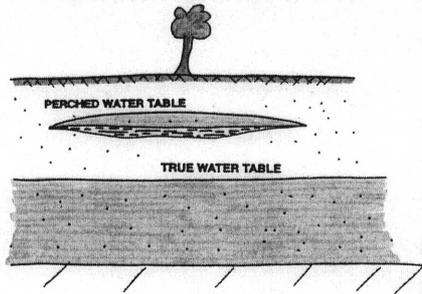
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## Perched Groundwater System



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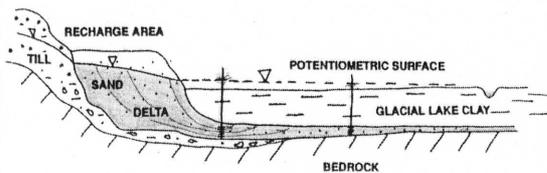
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## Confined Groundwater System



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## Key Items to Consider When Determining Depth to GW

- Topographic position: Where are you on the landscape?
- Surficial geology: What's beneath your feet?
- Season of the year: Is it a wet season of the year? Would you expect to see seasonal high GW?

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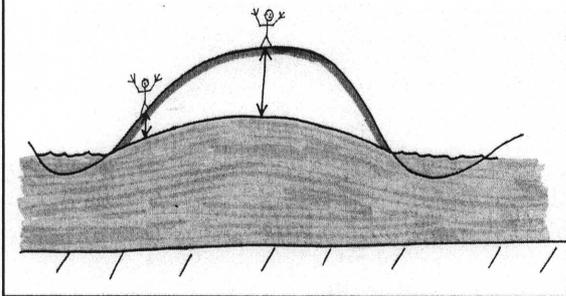
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### Position on the Landscape



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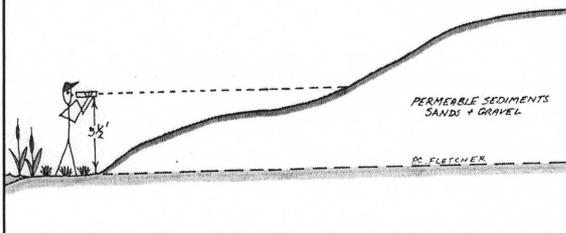
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### Don't forget to use Common Sense



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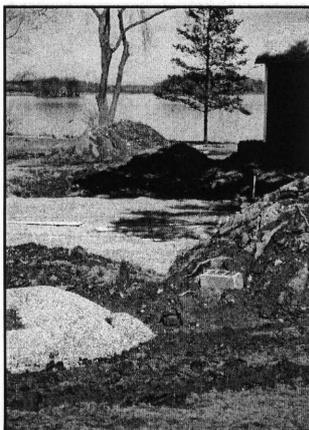
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In many situations  
it's common sense.

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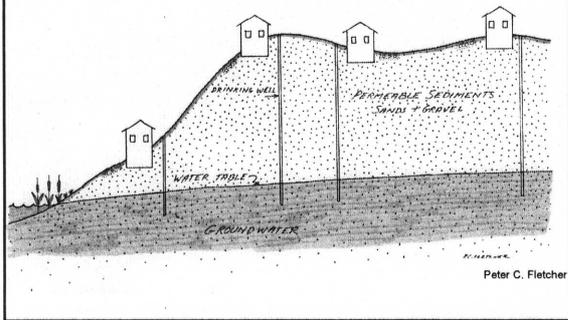
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## Unconfined Groundwater System




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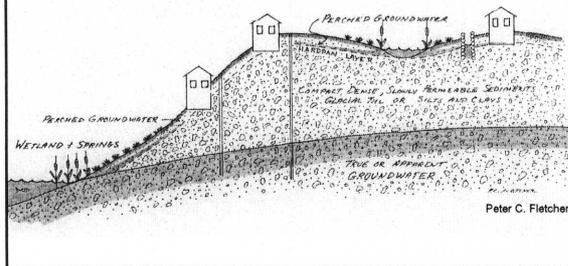
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## Perched Groundwater System




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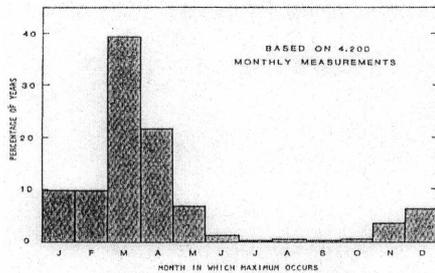
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## Season of the Year




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