

Beautiful Blue Marble



Geologic stratigraphy

Wells in the Sprague River Valley:

consist of mixed formations of

- volcanic (basalts) and
- sedimentary (clays, sands)

Which have very different hydro-geologic properties for water flow, both

- horizontally
- vertically

OWRD Model Review

In Prior years, OWRD's model and "draft" OAR guidance was predicated on a model based partly on the model by Hunt (Hunt, 2003).

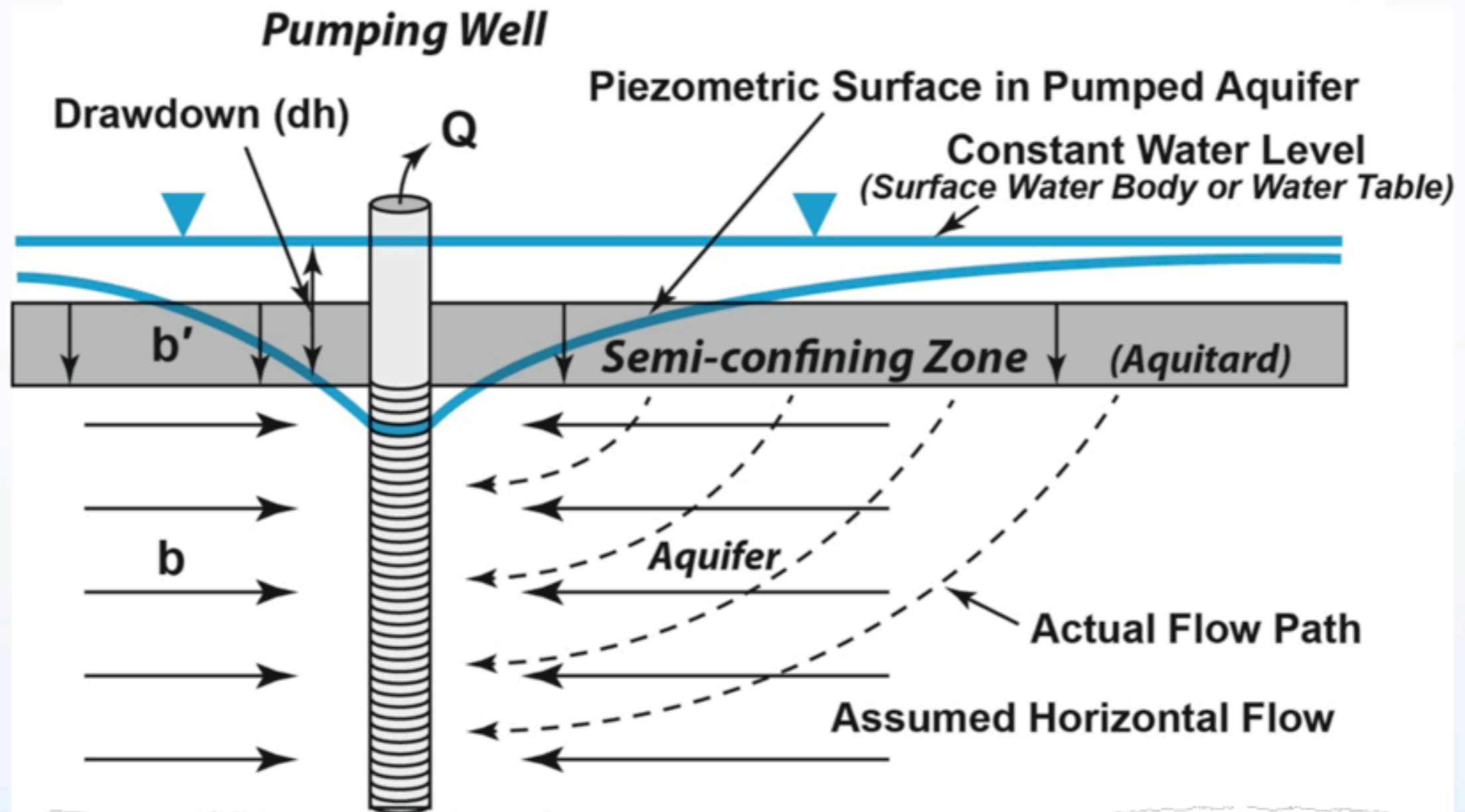
Current, Div. 9 Guidance uses some version USGS model, as of 2017.

OWRD Model

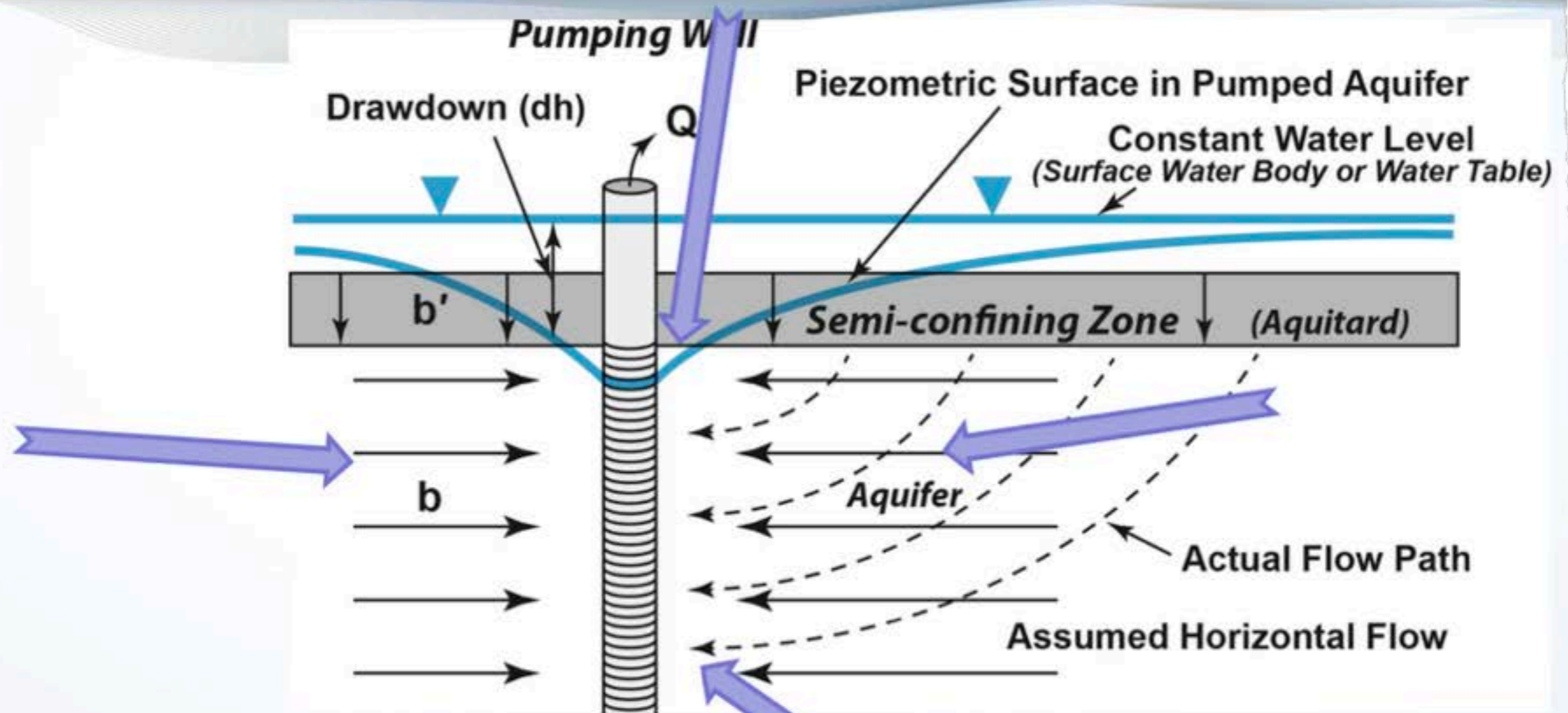
Assumes the only source of water to wells is coming from nearby surface water because of:

- artificial one-mile proximity
- vertical hydraulic conductivity
is too high relative to the
- horizontal hydraulic conductivity.

Conceptual Model of Leaky Aquifer



Alternate Model, Leaky Aquifer Analysis Differences with OWRD Model



Does not assume the nearby surface water is the only source of recharge to the aquifer.

Recommendations

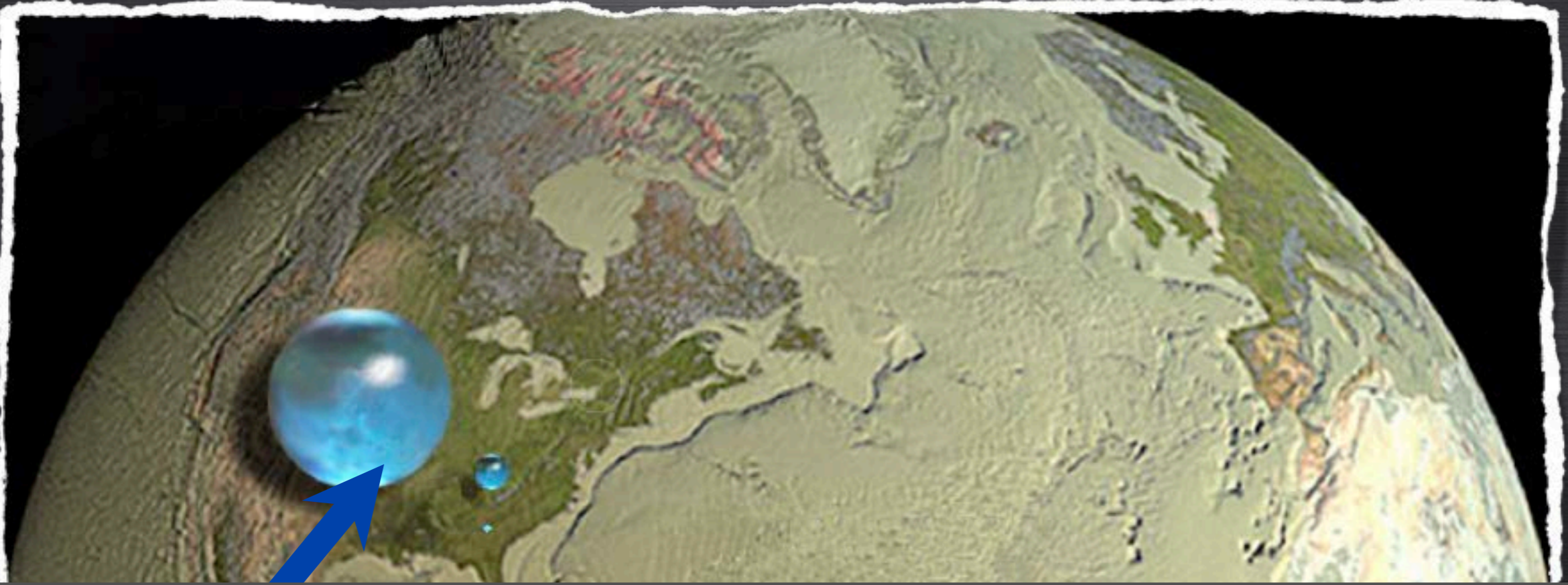
- 1. Establish standards*
- 2. Establish water right-holder
“Habeus Corpus”*
- 3. Commissioner Review and
public comment for
Model and regulatory Changes*



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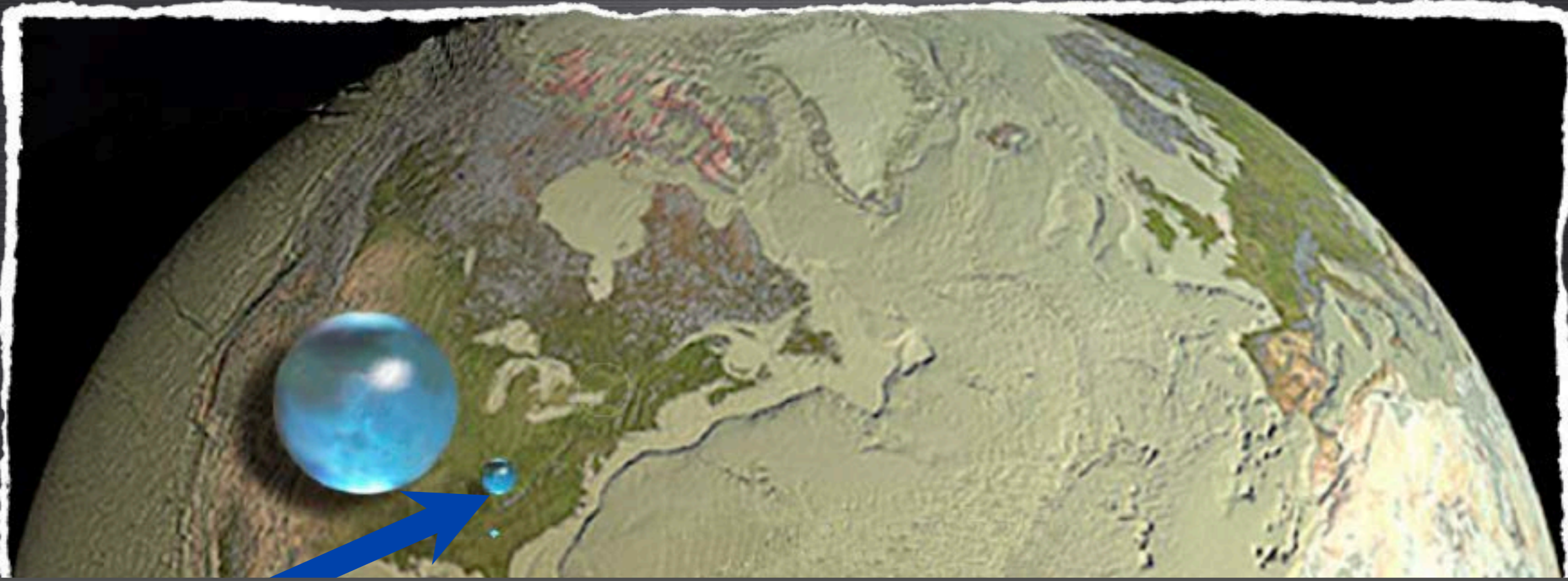


75%
Water



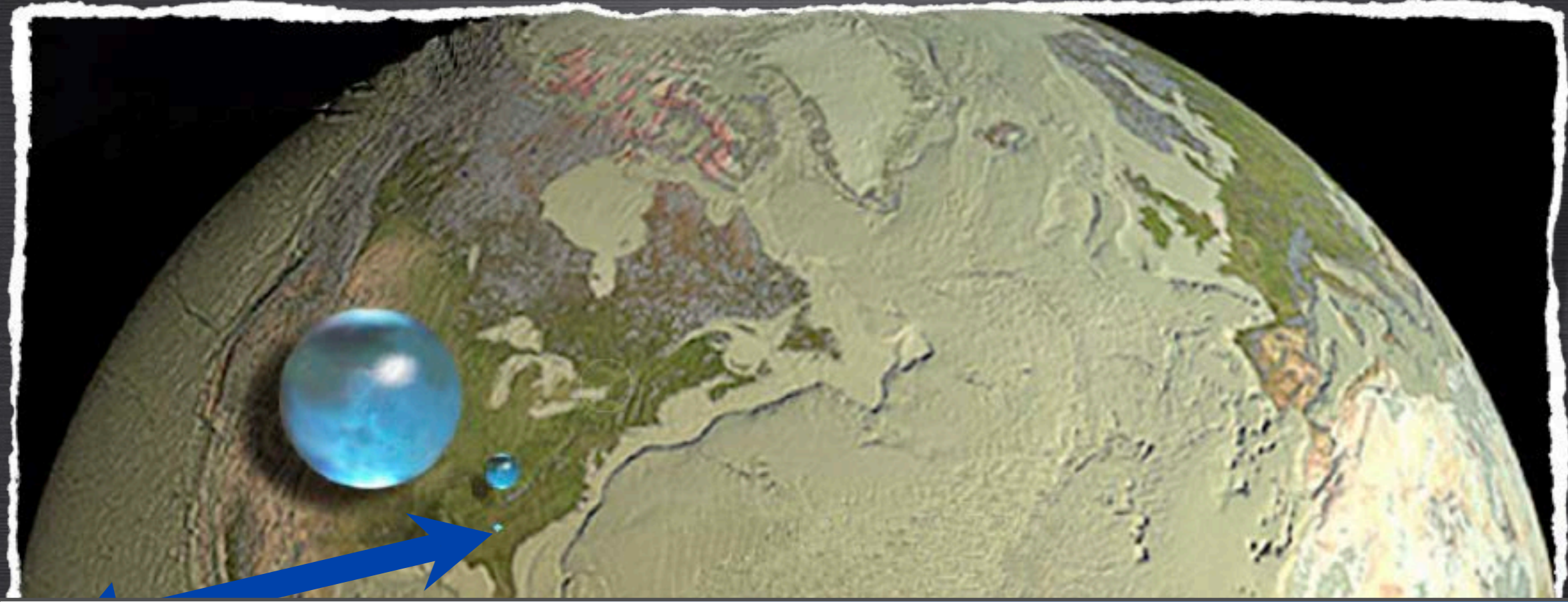
All Water - 800 mi.



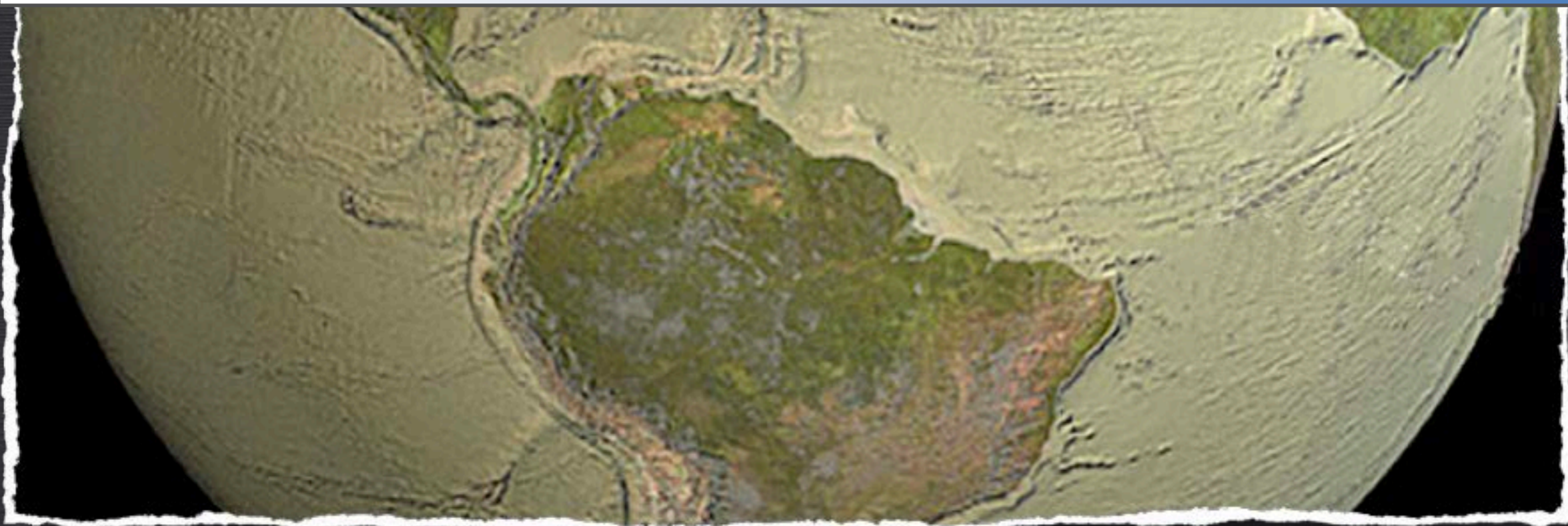


Fresh Water - 169 mi.





Fresh Surface - 35 mi.







Thank You - Questions?

