

**DRAFT - Questions for experts to consider for SB 4 model criteria for groundwater monitoring. Two parts – operator-required monitoring and regional scale monitoring**

**Operator-Required Monitoring:**

- What is the minimum required list of laboratory analytical methods needed to characterize groundwater?
- How many wells are necessary to sufficiently monitor groundwater conditions?
- At what depth intervals should monitoring wells be completed or screened?
- How close should the monitoring wells be located or placed to the well undergoing well stimulation treatment?
- What should the frequency and duration of the monitoring be?
- Should there be any limitations or exclusions to consider such as:
  - Lack of protected water
  - Depth to base of protected water
  - Hydrocarbon zone presence or absence
  - UIC exempted aquifers
  - Existing groundwater quality issues not related to oil and gas activities

**Regional Scale Monitoring:**

- In what areas should regional groundwater monitoring be prioritized?
- What will be the criteria for the transition from operator-required monitoring to regional monitoring conducted by the State Water Board?
- What should the overall scope and extent of a regional scale monitoring program contain?
  - Exempted aquifers
  - Hydrocarbon zone
  - Depths of groundwater monitoring
  - List of analytes
  - Frequency and duration of sampling
  - Reporting requirements and Information sharing