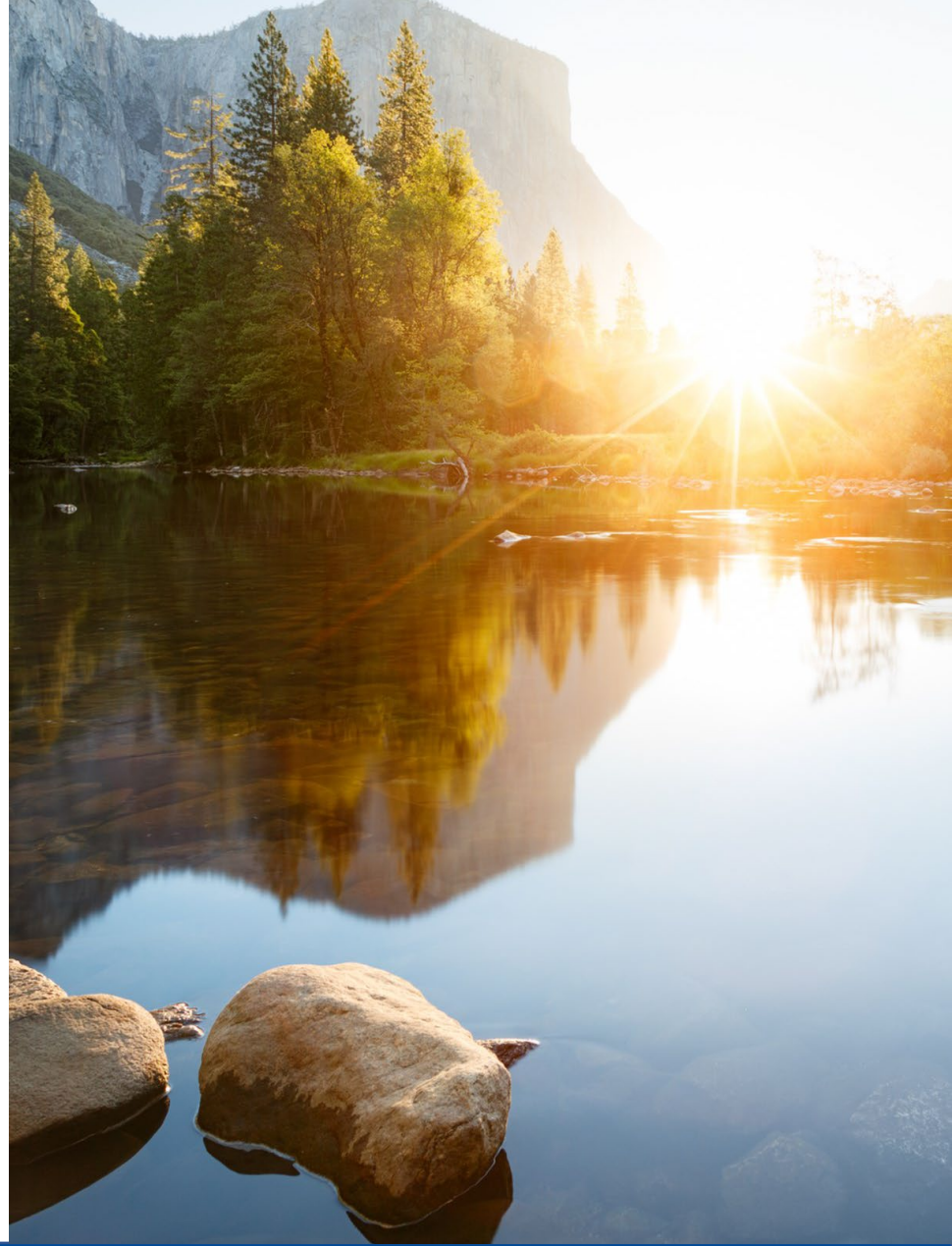


# Subdivision Review - Wastewater



# What we'll cover

- Recent ARM change
- Proposed vs Existing
- Site Evaluation
- GW Monitoring





# Proposed VS Existing

- Proposed systems subject to ARM 17.36.320(3), includes increased/changed uses on existing systems





## **ARM 17.36.320(3)(a)**

- Shifted design submittal to the time of local permitting
- Basic elements required
- Some exceptions

# Basic info required for proposed systems

- Site eval information
- System type selected, soil app rate, design flow
- Trench length/width
- Location
- Slope across absorption system
- Setbacks
- Non-deg parameters

# Full designs/specs required

- Multi-user or public
- Non-residential strength waste
- If local health department does not issue permits
- Site constraints exist



# Proposed VS Existing

- Existing systems subject  
ARM 17.36.327



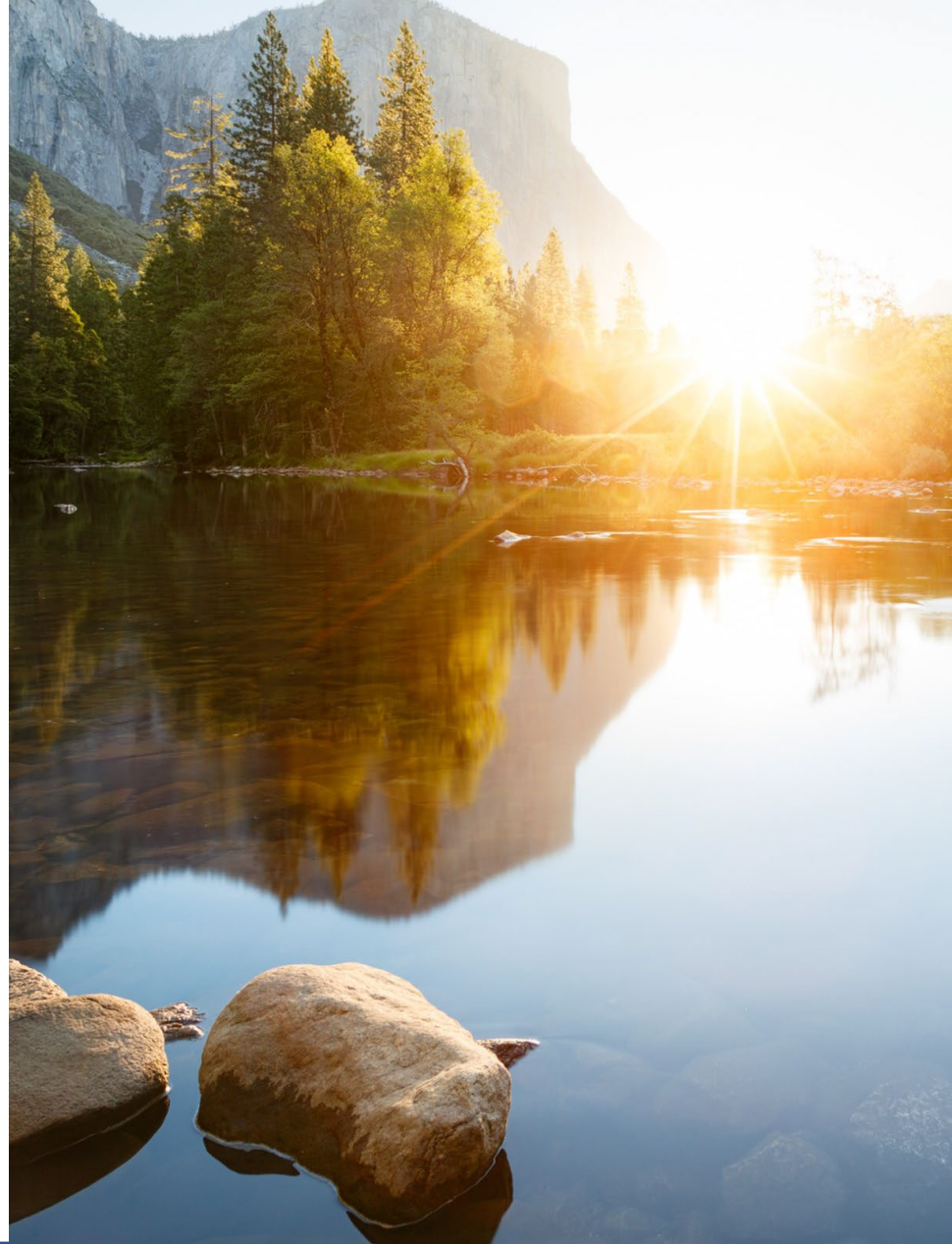
# Basic info required for existing systems

- Previously approved (and compliant) facilities
- 327 applicable only to non-public
- Evidence demonstrating proper hydraulic function
- Compliance with state/local requirements
- Proof of tank pumping
- Setbacks (can request waiver)
- Replacement area



# Site Evaluation

- 17.36.325 and DEQ4
- Qualified Site Evaluator

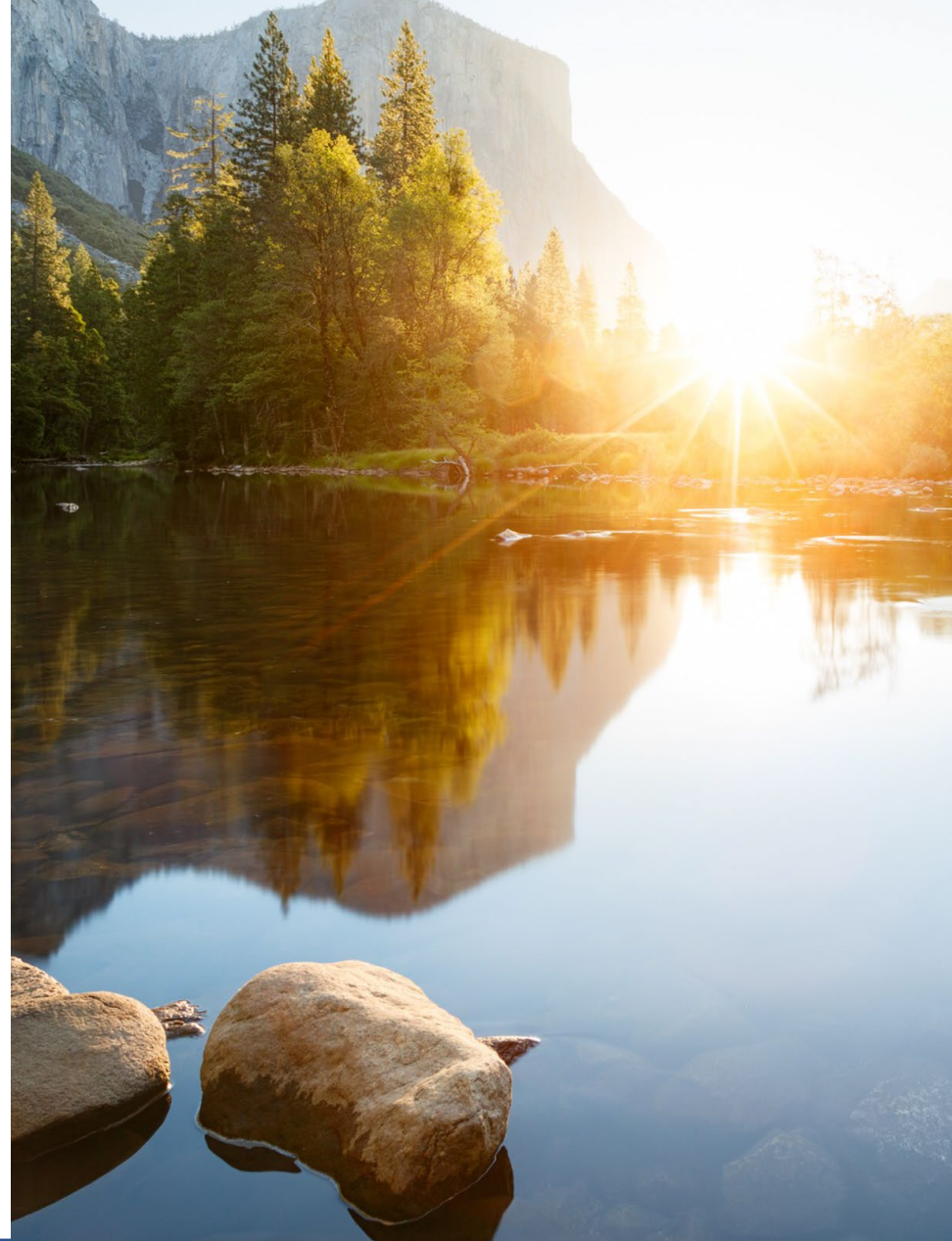


# Qualified Site Evaluator

- Qualified site evaluator means a soils scientist, professional engineer, registered sanitarian, hydro geologist, or geologist who has experience and knowledge of soil morphology. Other individuals will be considered qualified after providing, to the reviewing authority, evidence of experience describing soils or experience conducting necessary test procedures.

# Site Evaluation

- 17.36.325 and DEQ4
- Qualified Site Evaluator
- Soils Descriptions



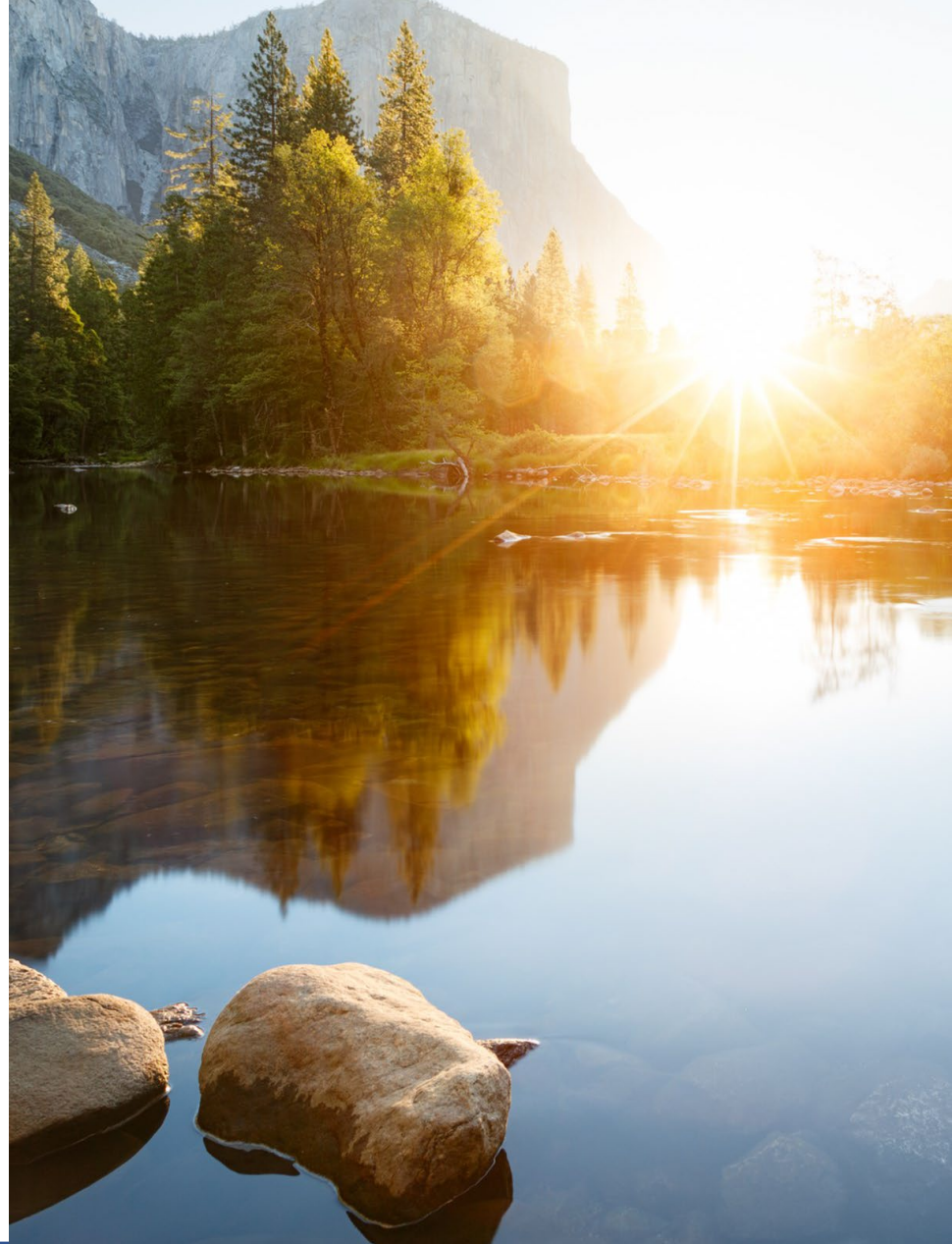


# Soil Descriptions

- One 8' Test pit within 25' for ind/shared
- Three 8' test pits for multi-user/public
- Zoned systems- one per zone
- Rules allow for waivers (see 17.36.325(3)(b))
- USDA soil texture, structure, color, mottling?
- Stoniness modifier (based on %)
- Test holes must be identified on layout and reports
- Percolation tests if required (check local regs)

# Site Evaluation

- 17.36.325 and DEQ4
- Qualified Site Evaluator
- Soils Descriptions
- GW Monitoring



# Groundwater Monitoring

- When is it required? 17.36.325(2)-reason to believe
- Appendix C DEQ-4
- Within 25', additional monitoring locations possible
- Two weeks of monitoring pre and post peak
- Timing of monitoring –check with local HD if unsure
- Construction of monitoring well



# Monitoring well construction

- 10', 2"-4" pipe installed vertically
- Perforations 1'-8' below grade with 0.5" spacing
- Cap top of well
- Backfill native material to 1' below grade
- Top with fine grade soils AND POSITIVE DRAINAGE

# Connect with us!

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