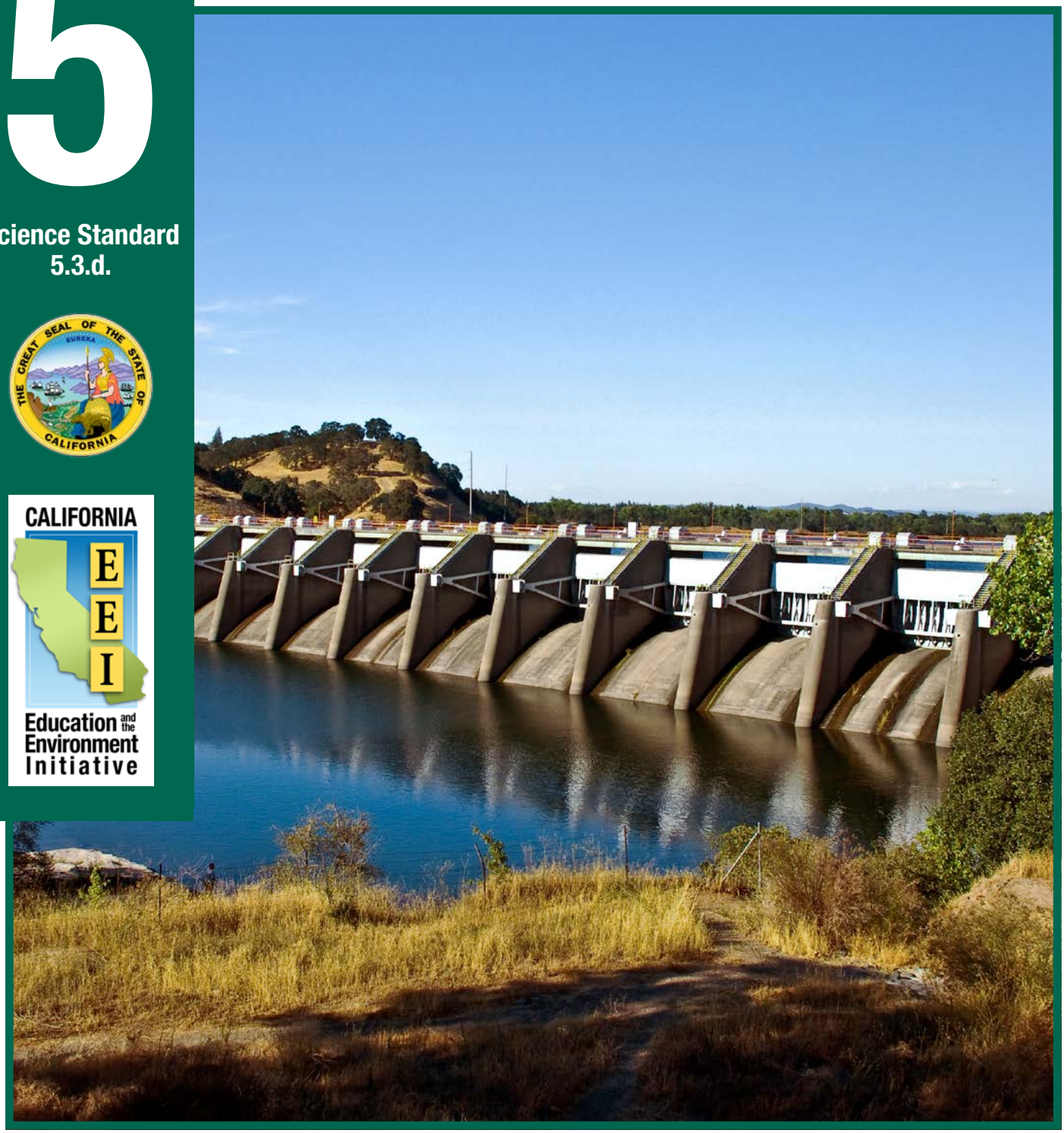
5

Science Standard
5.3.d.

Visual Aids

California Education and the Environment Initiative



Our Water: Sources and Uses

California Education and the Environment Initiative

Approved by the California State Board of Education, 2010

The Education and the Environment Initiative Curriculum is a cooperative endeavor of the following entities:

California Environmental Protection Agency

California Natural Resources Agency

California State Board of Education

California Department of Education

Department of Resources Recycling and Recovery (CalRecycle)

Key Partners:

Special thanks to **Heal the Bay,** sponsor of the EEI law, for their partnership and participation in reviewing portions of the EEI curriculum.

Valuable assistance with maps, photos, videos and design was provided by the **National Geographic Society** under a contract with the State of California.

Office of Education and the Environment

1001 I Street • Sacramento, California 95814 • (916) 341-6769

http://www.CaliforniaEEI.org

© Copyright 2011 by the California Environmental Protection Agency

© 2013 Second Edition

All rights reserved.

This publication, or parts thereof, may not be used or reproduced without permission from the Office of Education and the Environment.

These materials may be reproduced by teachers for educational purposes.

Contents

Lesson 1 Reservoirs Revealed

1 Reservoir 2
2 Snowpack 3
3 Lake 4
4 Aquifer 5
5 Freshwater Marsh 6
6 Small Stream 7
7 River 8

Lesson 2 Water Consumption Considered

8 How Precipitation is Used in California 9

Lesson 3 Working with Wastewater

9 Water Cycle 10

Lesson 4 What Would You Do with the Water?

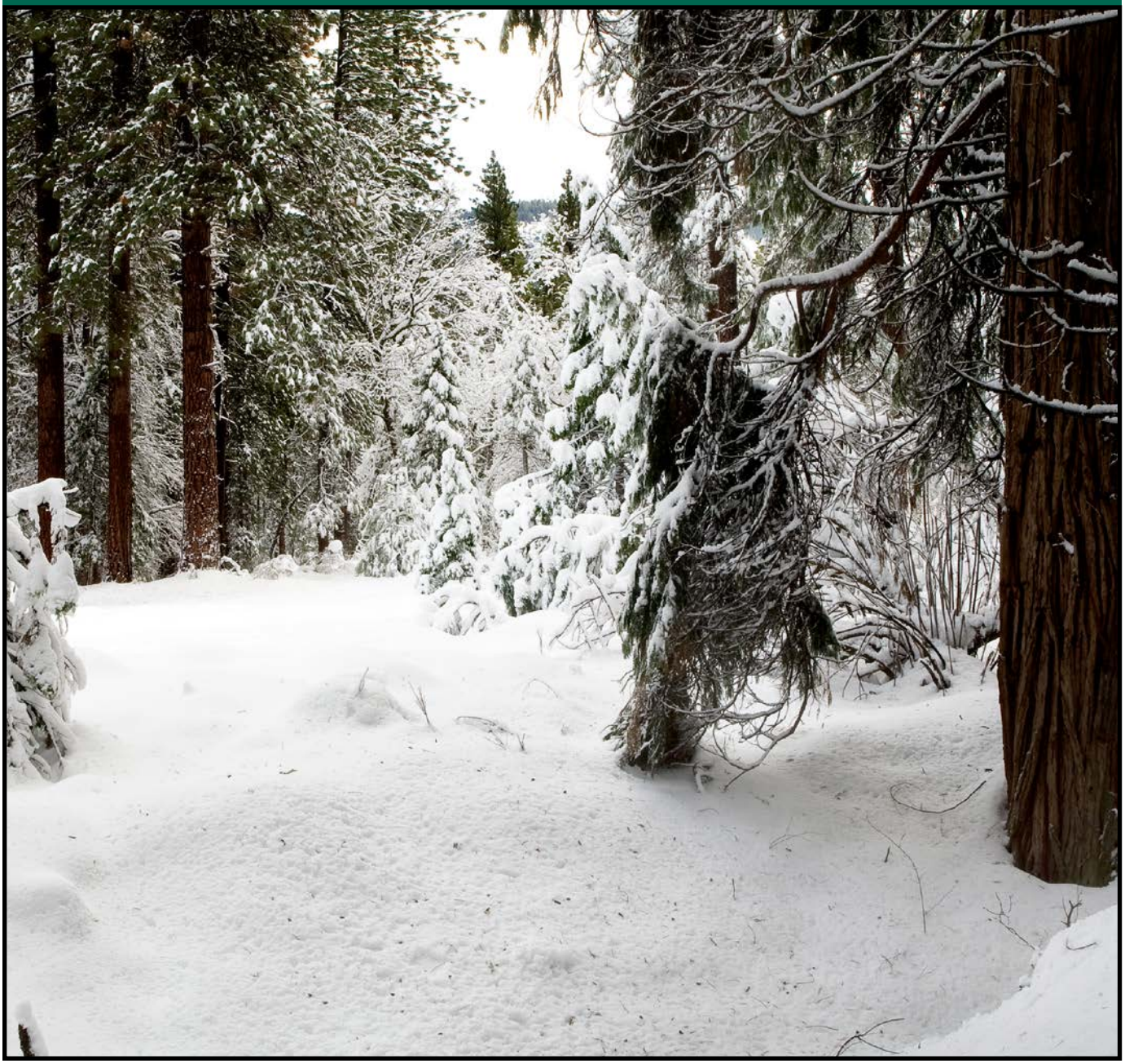
10 Water Recycling 11

Lesson 5 What a Difference Water Makes

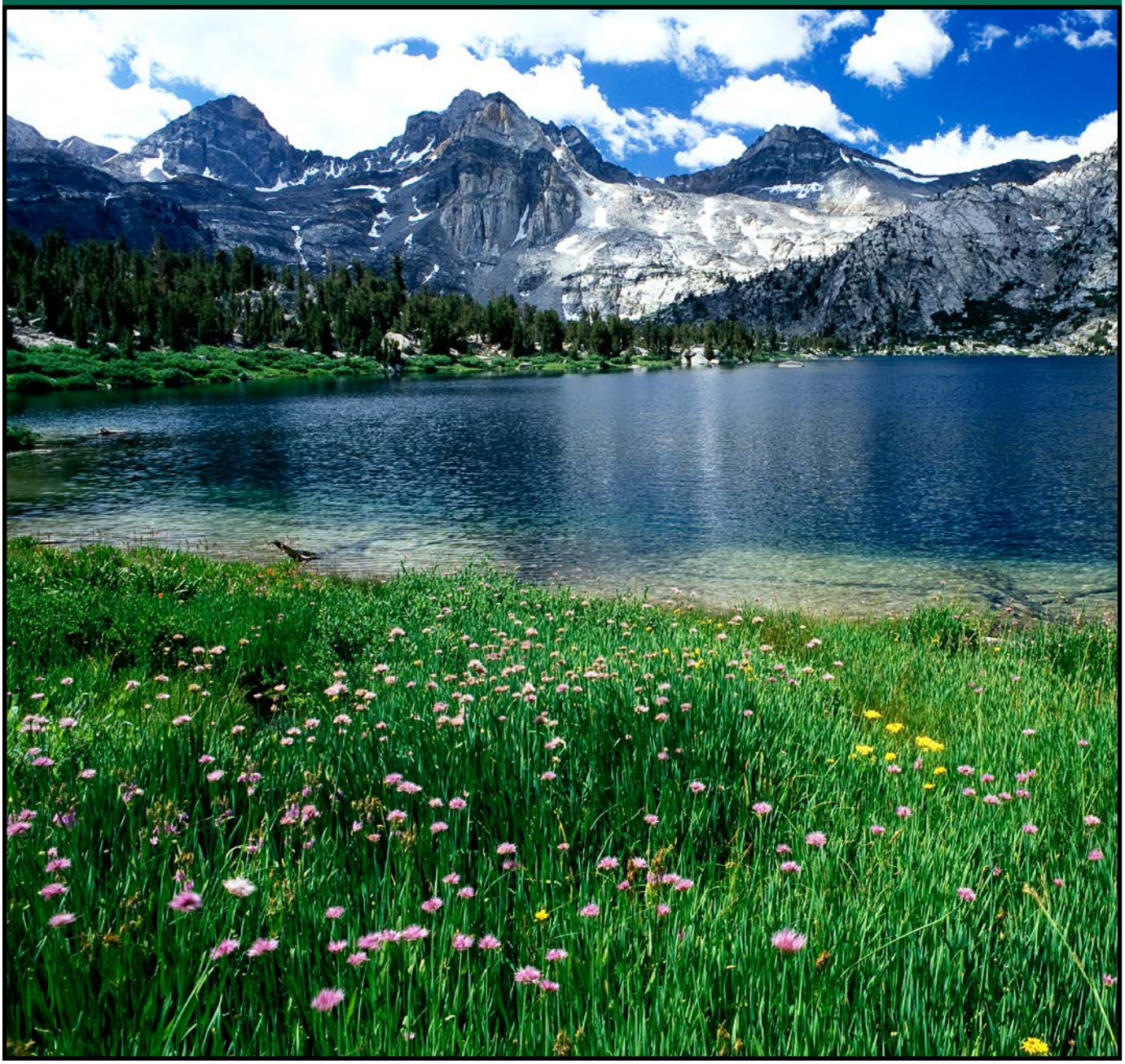
11 Presentation Guidelines 12

VA #1 Reservoir

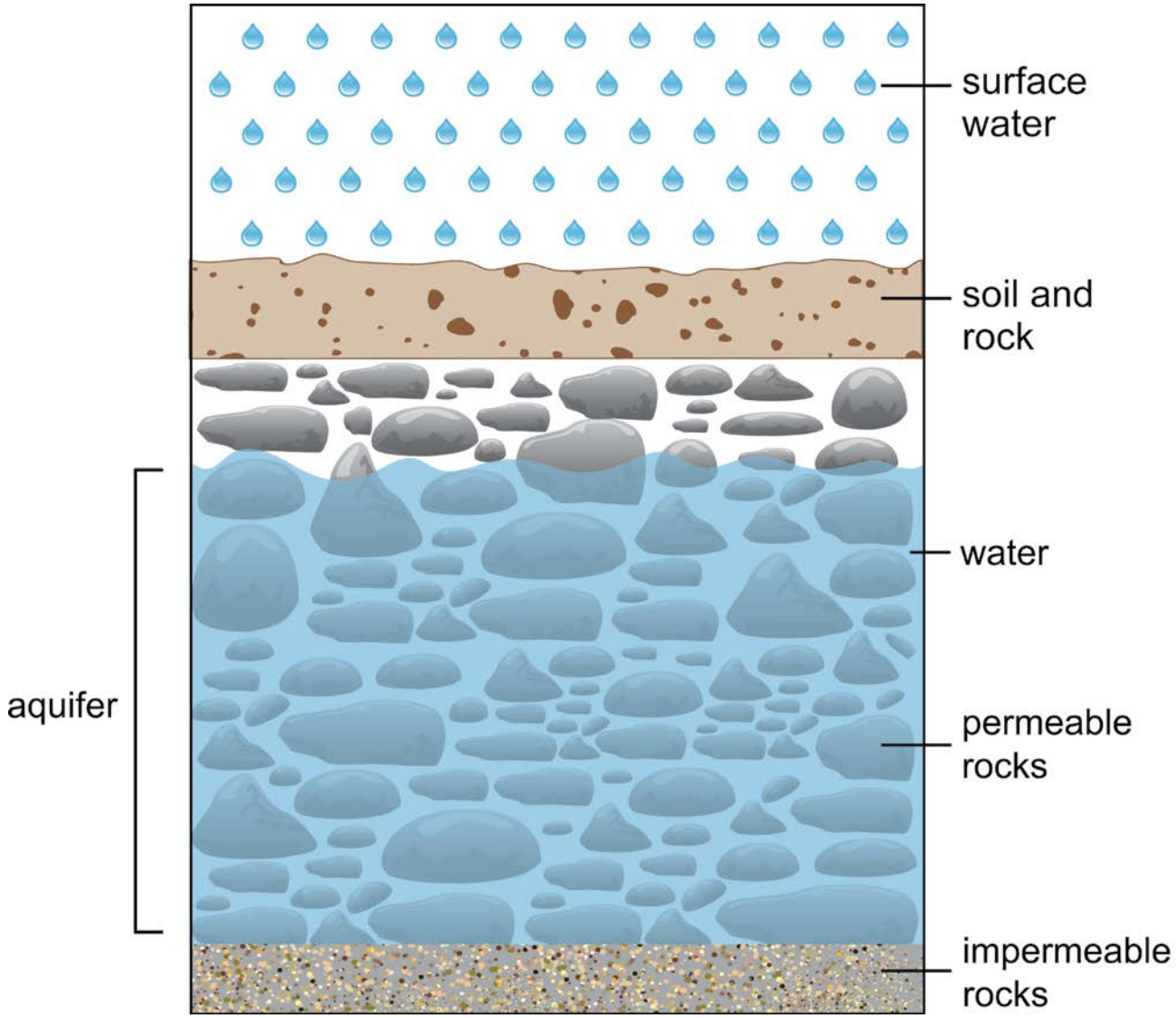
VA #2 Snowpack



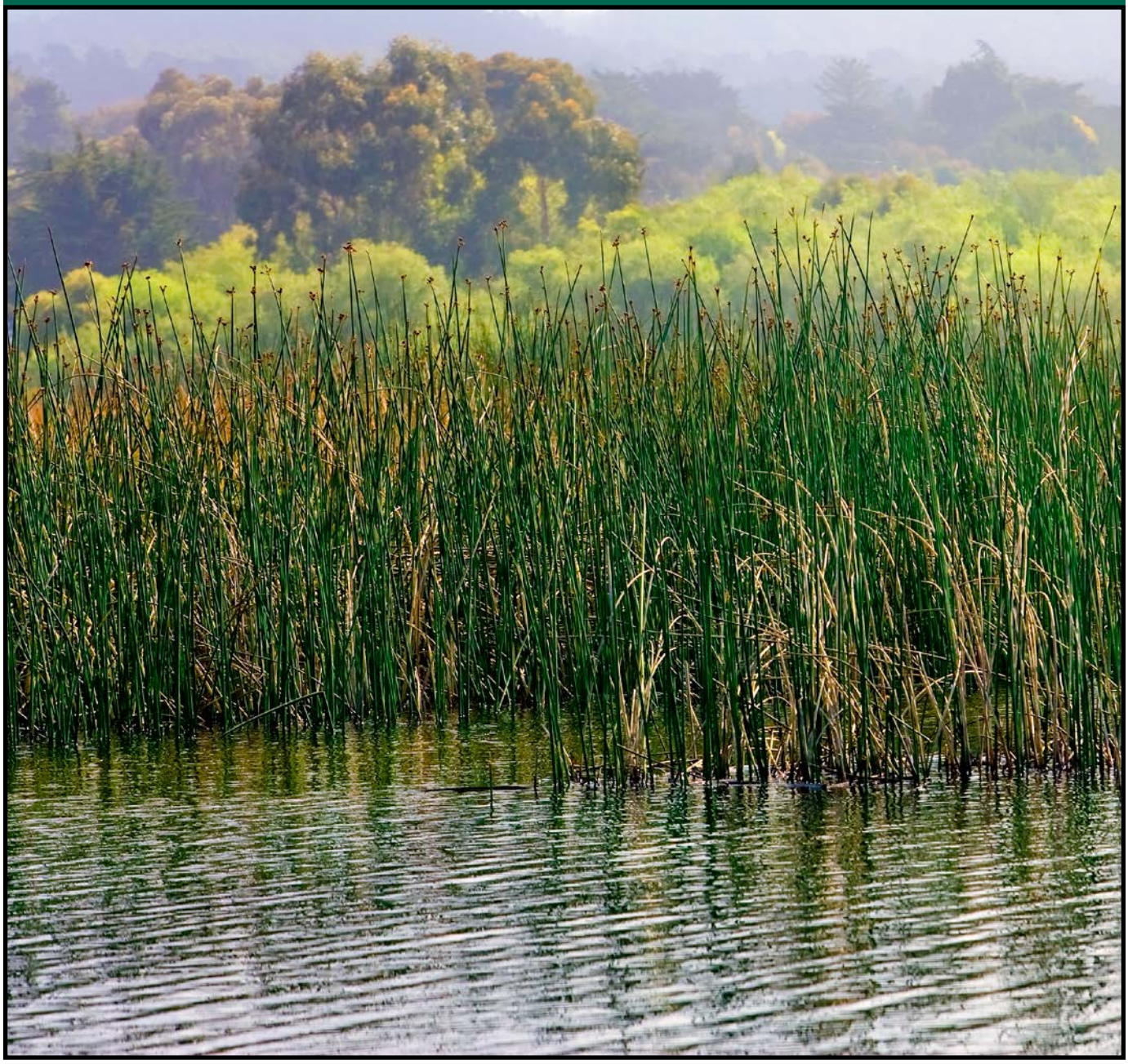
VA #3 Lake



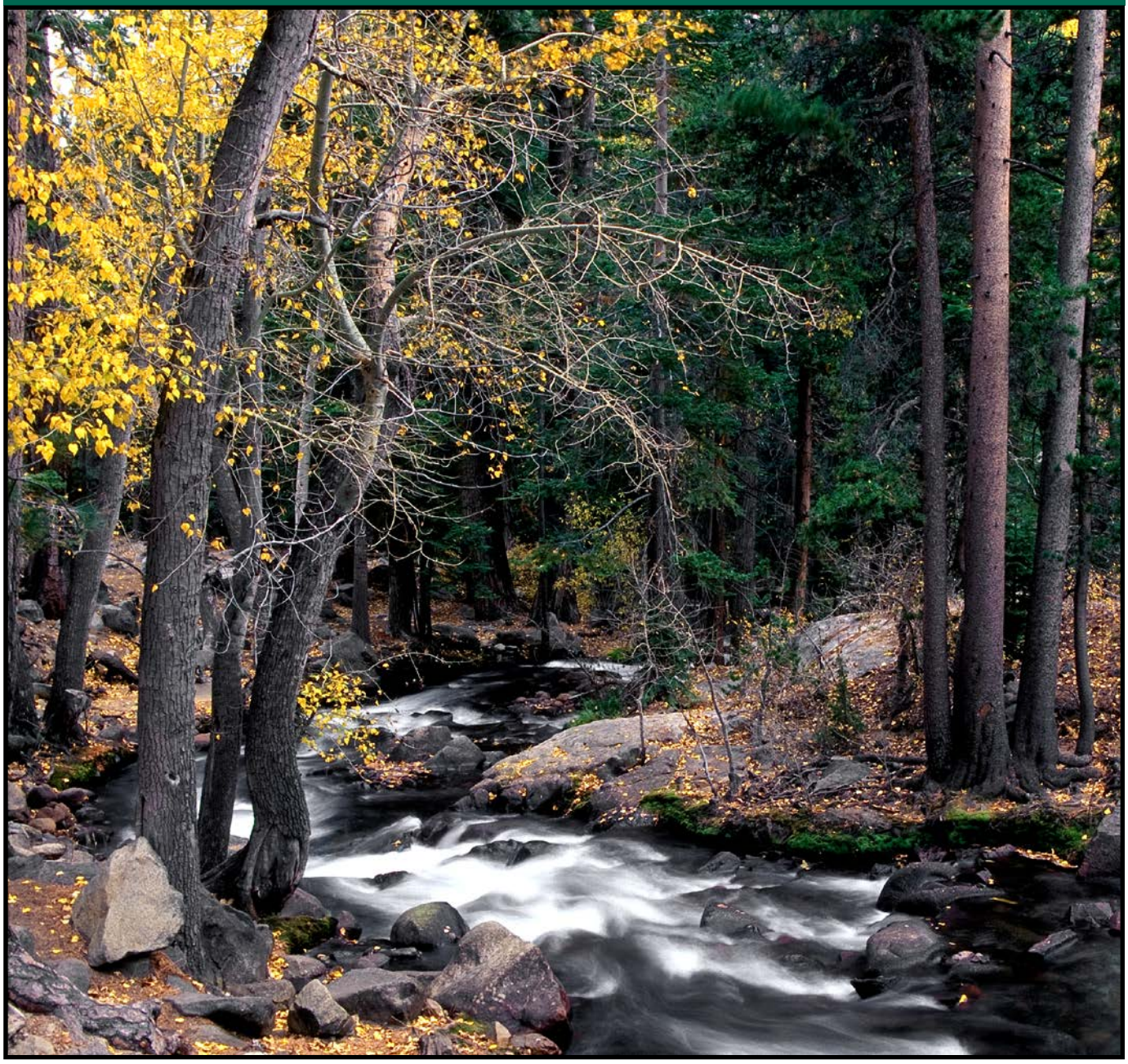
VA #4 Aquifer


surface water
soil and rock
water
aquifer
permeable rocks
impermeable rocks

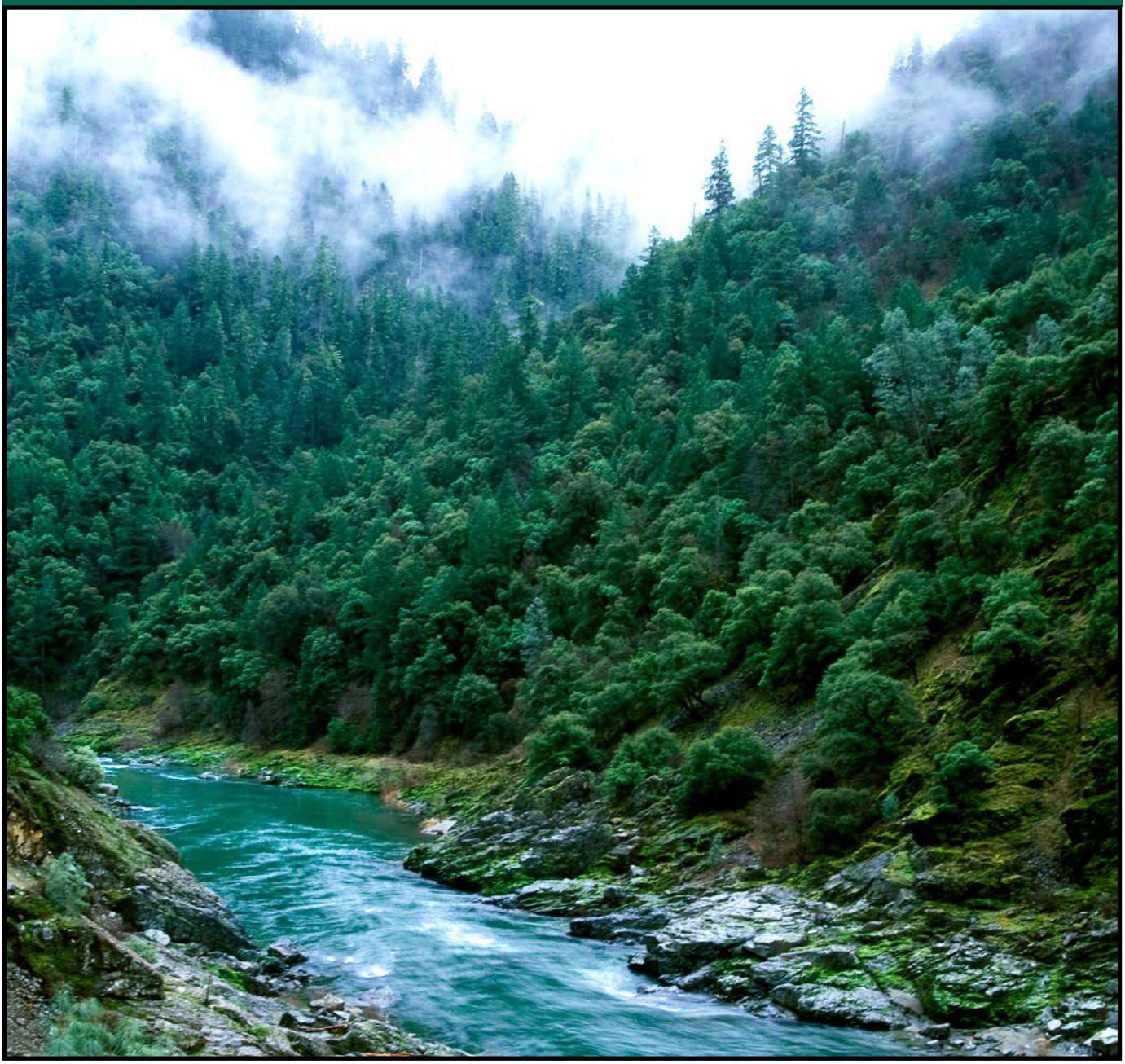
VA #5 Freshwater Marsh



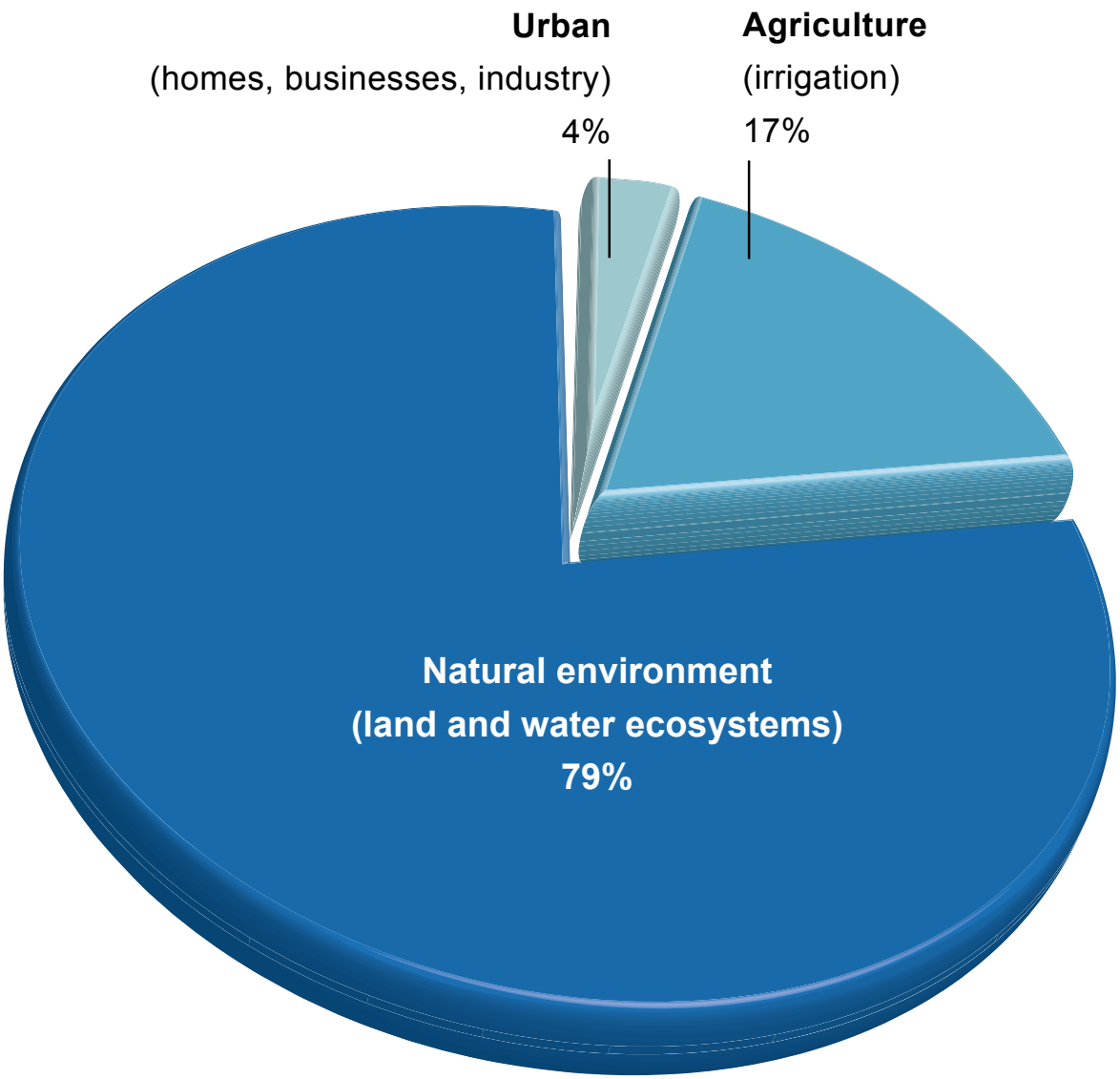
VA #6 Small Stream



VA #7 River

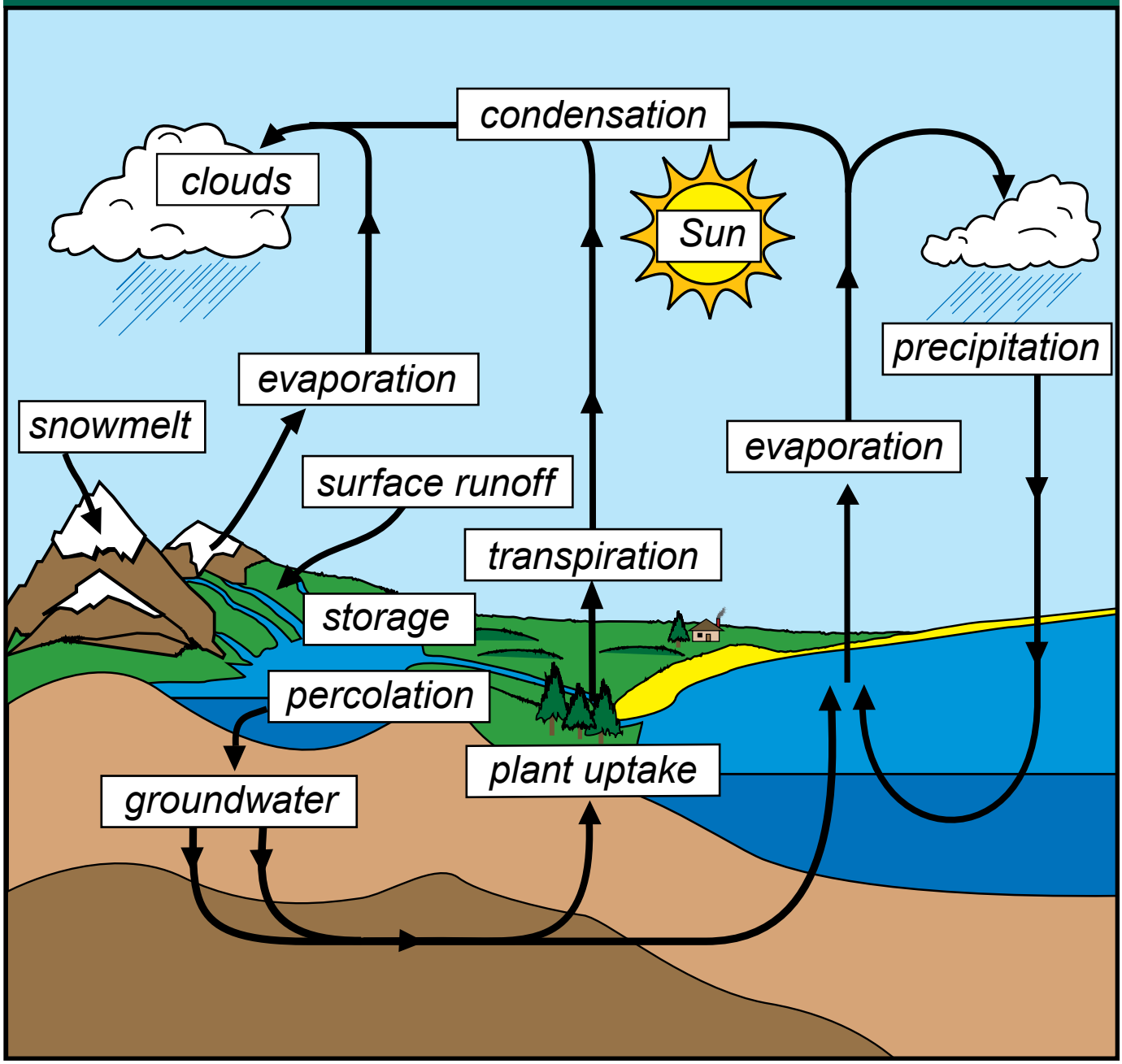


VA #8 How Precipitation is Used in California



Sources: State Water Resources Control Board and Department of Water Resources

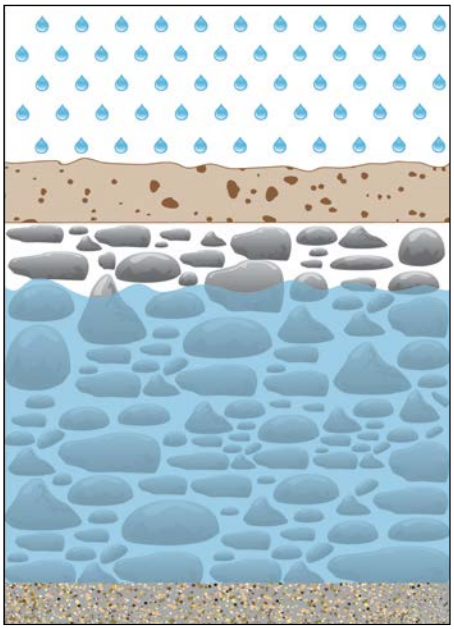
VA #9 Water Cycle



VA #10 Water Recycling

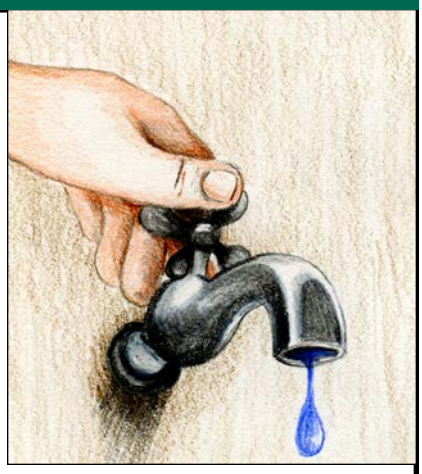
1. Mechanical, biological, and chemical cleaning

2. Treated water is put into lakes…



3. …that water percolates into the groundwater (aquifers).

4. Water is pumped from wells, treated, and sent back to your faucets at home!



VA #11 Presentation Guidelines

Instructions: Your group will give a five-minute presentation to the class on what is happening in the watershed your group has been assigned. Your presentation needs to:

- Tell the class what happened in your scenario. Use your own words. Do not repeat what is on the card.
- Show the class where your watershed is on the **Water for Life** wall map. Describe the features of your watershed. This could include things like mountains or rivers.
- Use your visual aid to describe the consequences of the change in your watershed for ecosystems and for people and their communities.
- Tell the class why you think those consequences might occur. Explain why they are important.

California Education and the Environment Initiative

53dVA

Printed on post-consumer recycled paper