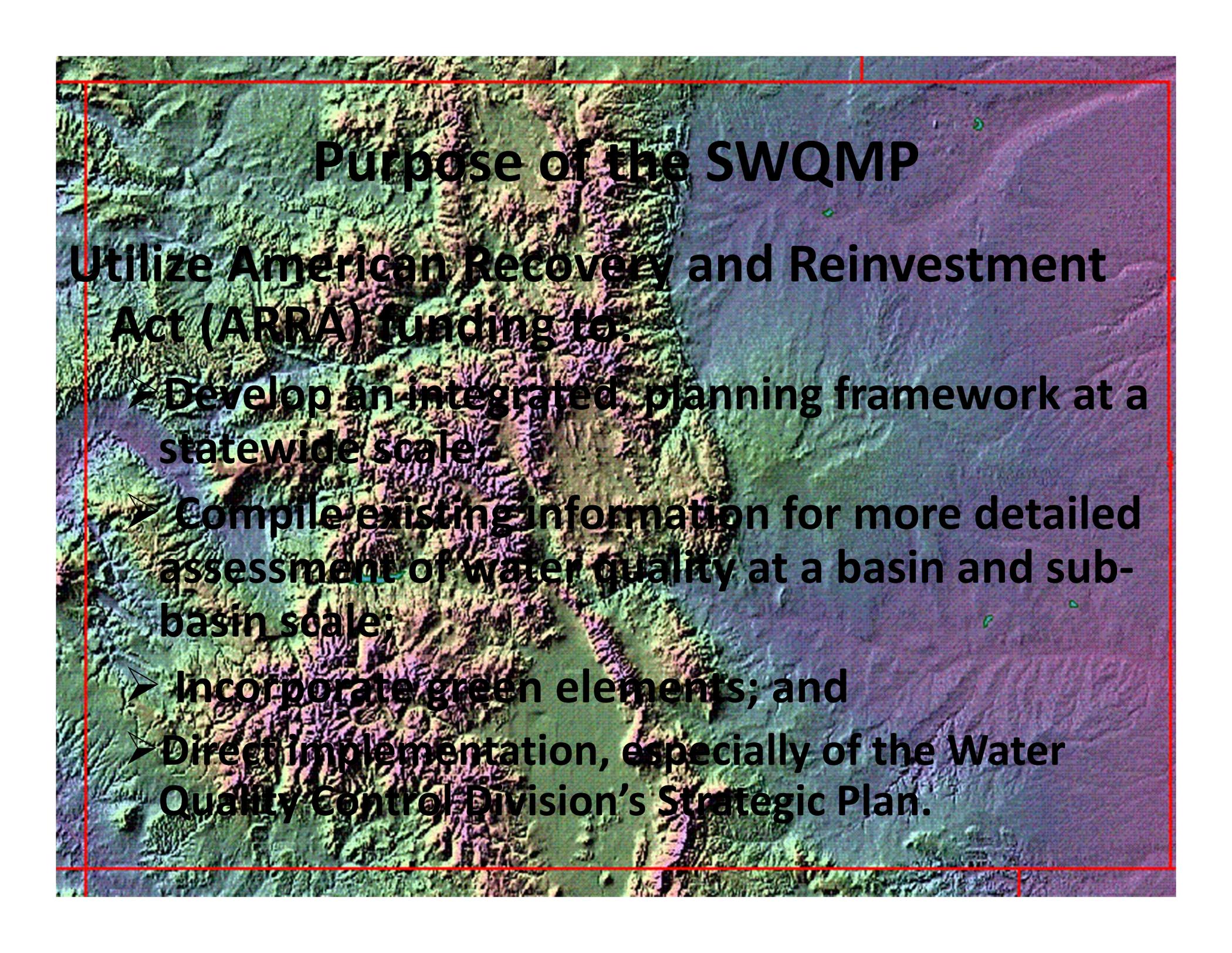


A topographic map of Colorado, showing the state's terrain with various elevations and colors. The map is framed by a red border. The text is overlaid on the map.

# **Statewide Water Quality Management Plan (SWQMP)**

By  
**Greg Naugle, Manager**  
**Watershed Protection and Restoration Unit,**  
**Water Quality Control Division (WQCD)**  
**Colorado Department of Public Health and Environment (CDPHE)**

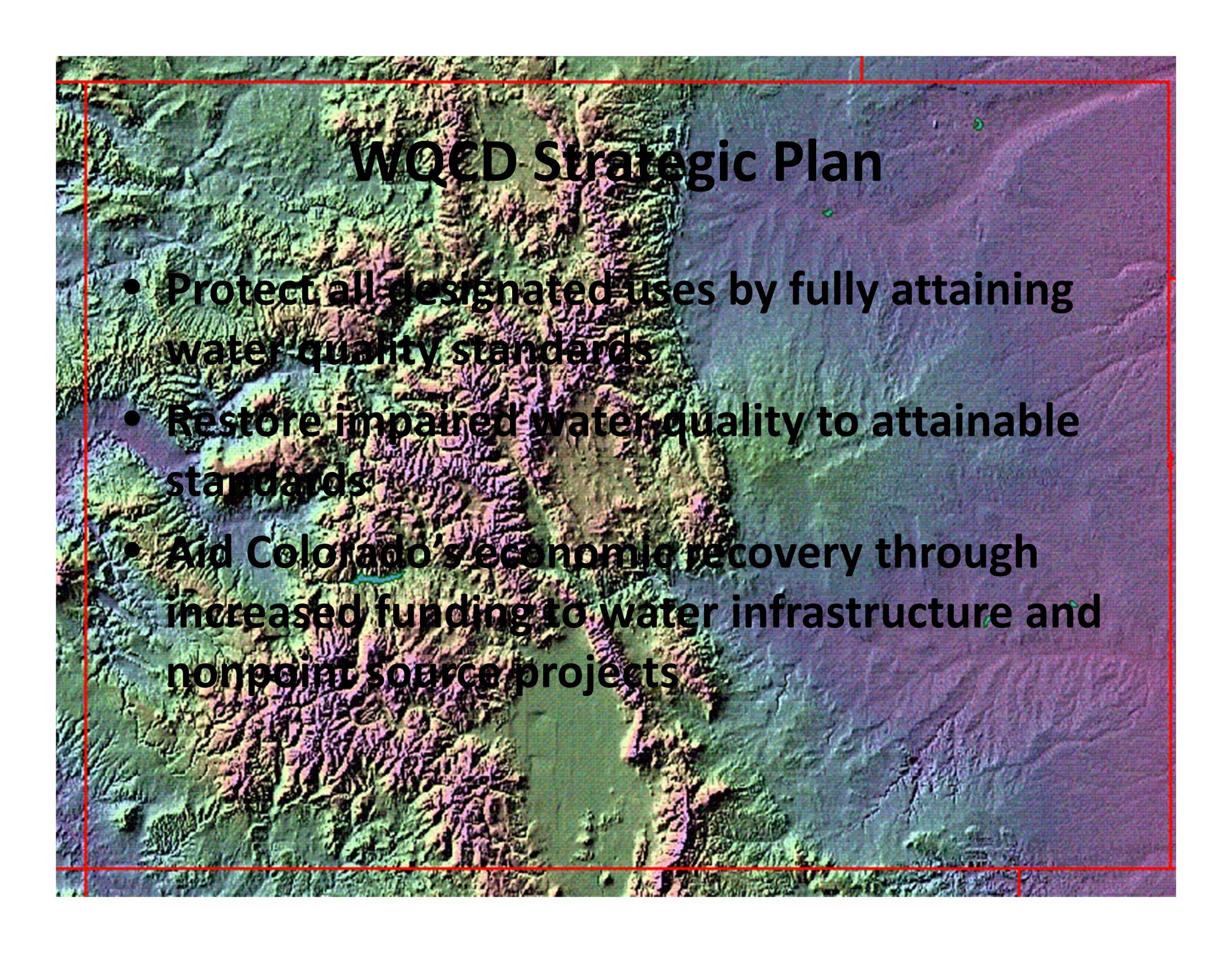
**Sustaining Watersheds Conference**  
**Vail, Colorado**  
**October 6, 2010**

A topographic map of a region, likely the western United States, showing terrain elevation with colors ranging from green (low elevation) to brown and purple (high elevation). The map is framed by a red border.

## **Purpose of the SWQMP**

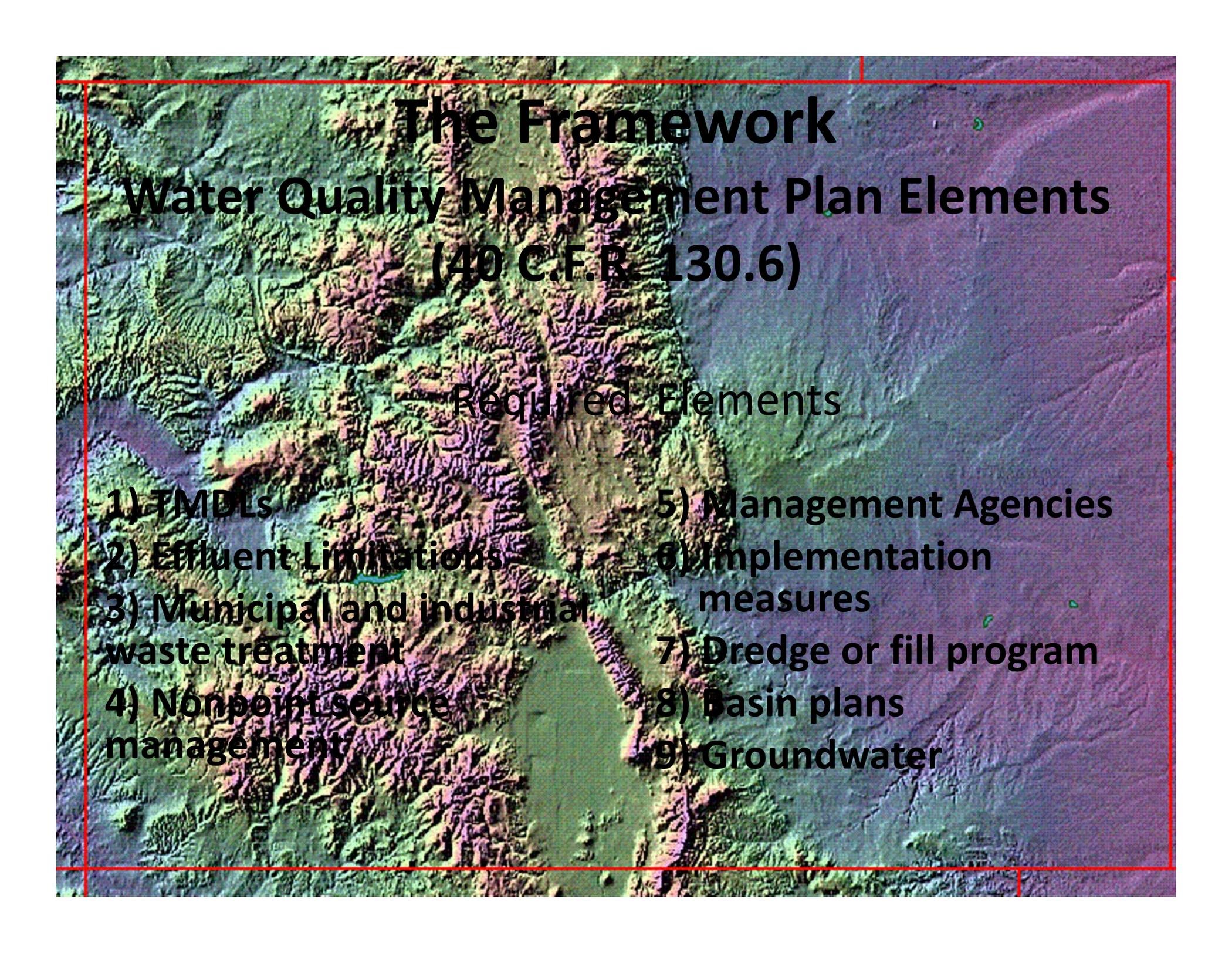
**Utilize American Recovery and Reinvestment Act (ARRA) funding to:**

- **Develop an integrated, planning framework at a statewide scale;**
- **Compile existing information for more detailed assessment of water quality at a basin and sub-basin scale;**
- **Incorporate green elements; and**
- **Direct implementation, especially of the Water Quality Control Division's Strategic Plan.**

A topographic map of Colorado, showing the state's terrain in shades of green, yellow, and brown. A red border is drawn around the map. The text is overlaid on the map.

# WQCD Strategic Plan

- **Protect all designated uses by fully attaining water quality standards**
- **Restore impaired water quality to attainable standards**
- **Aid Colorado's economic recovery through increased funding to water infrastructure and nonpoint source projects**

A topographic map of a river valley, showing terrain elevation with a color gradient from green (low) to brown and purple (high). A river flows through the center. The entire map is enclosed in a red border.

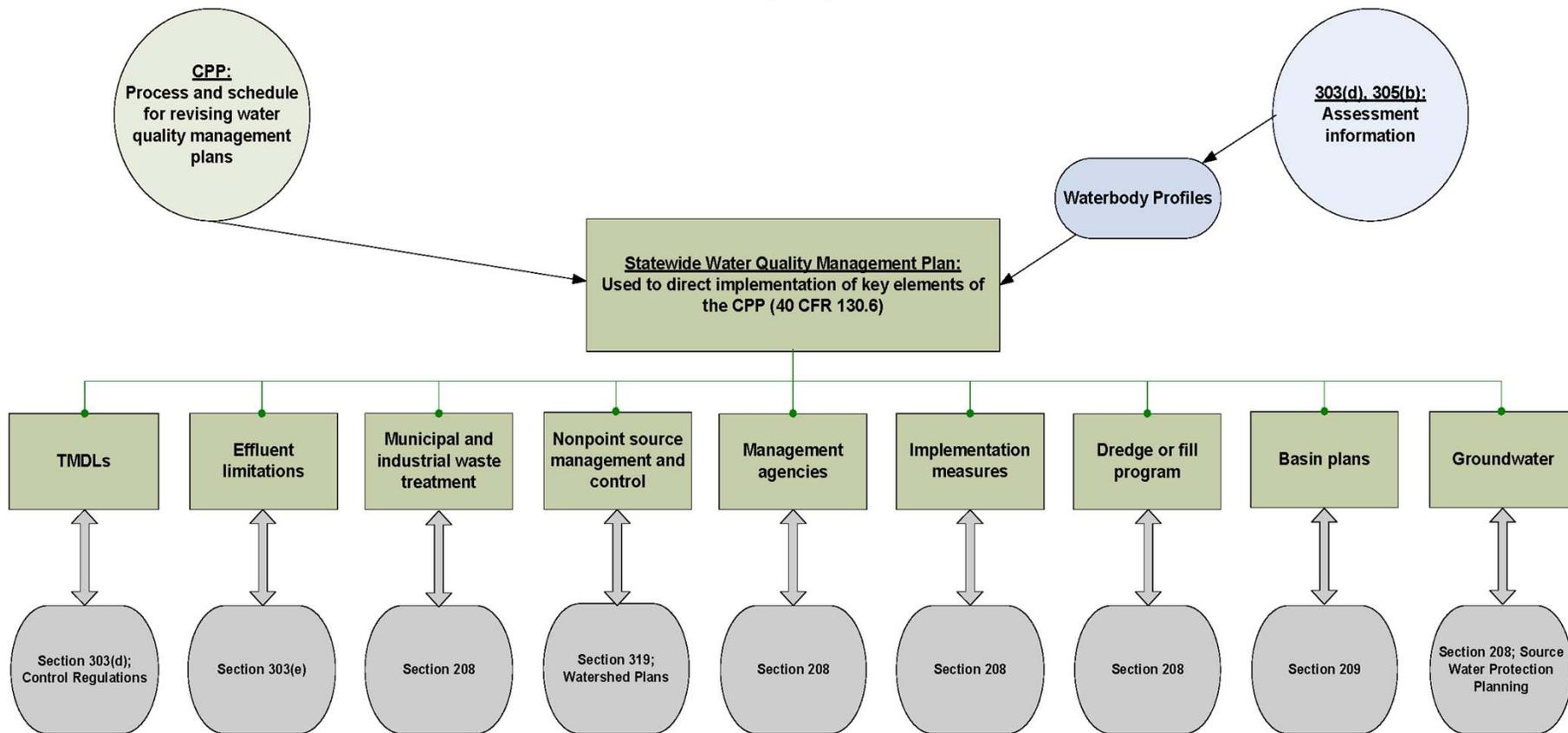
# The Framework

## Water Quality Management Plan Elements (40 C.F.R. 130.6)

### Required Elements

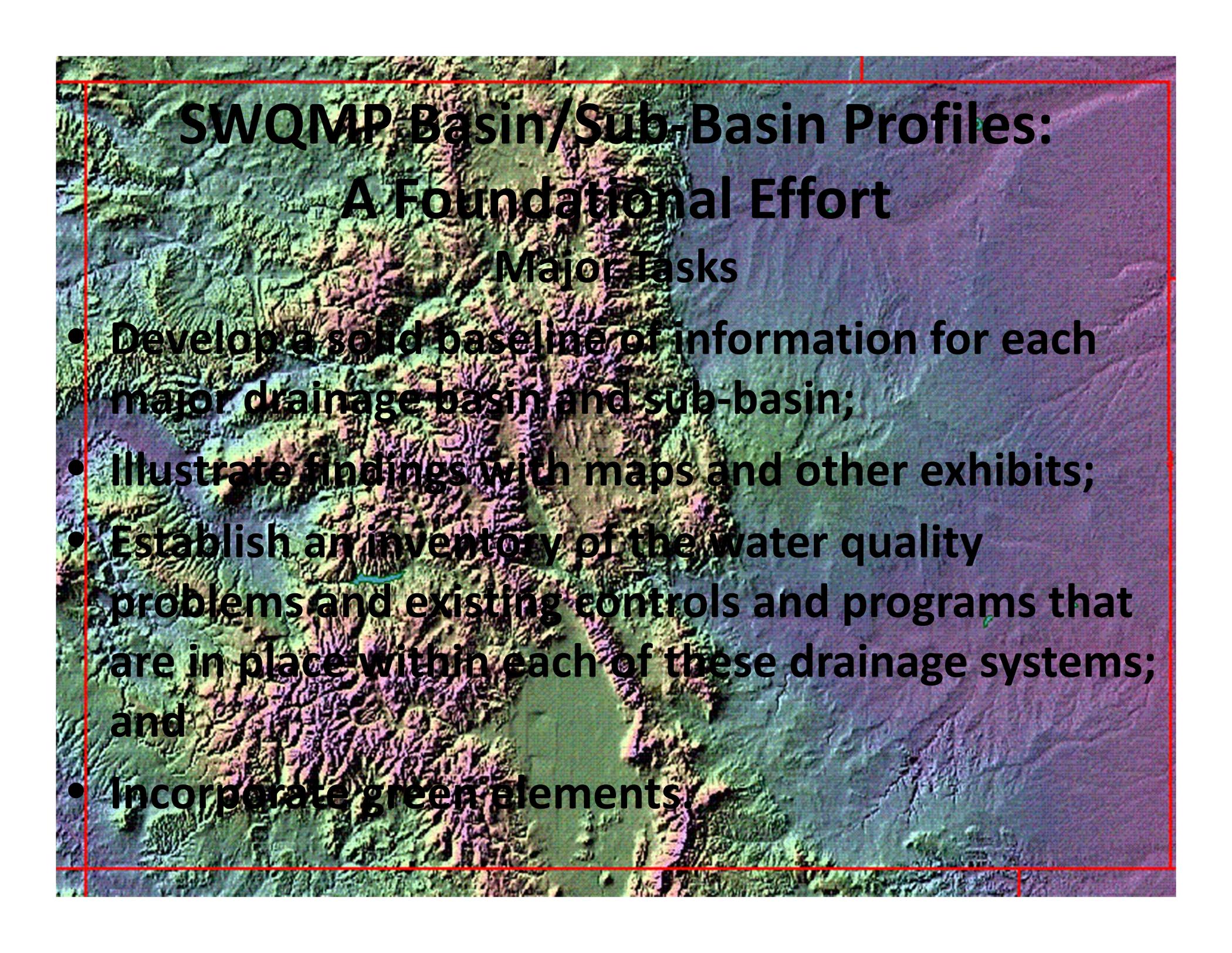
- 1) TMDLs
- 2) Effluent Limitations
- 3) Municipal and industrial waste treatment
- 4) Nonpoint source management
- 5) Management Agencies
- 6) Implementation measures
- 7) Dredge or fill program
- 8) Basin plans
- 9) Groundwater

Statewide Water Quality Management Plan Overview



# Primary Sources of Information

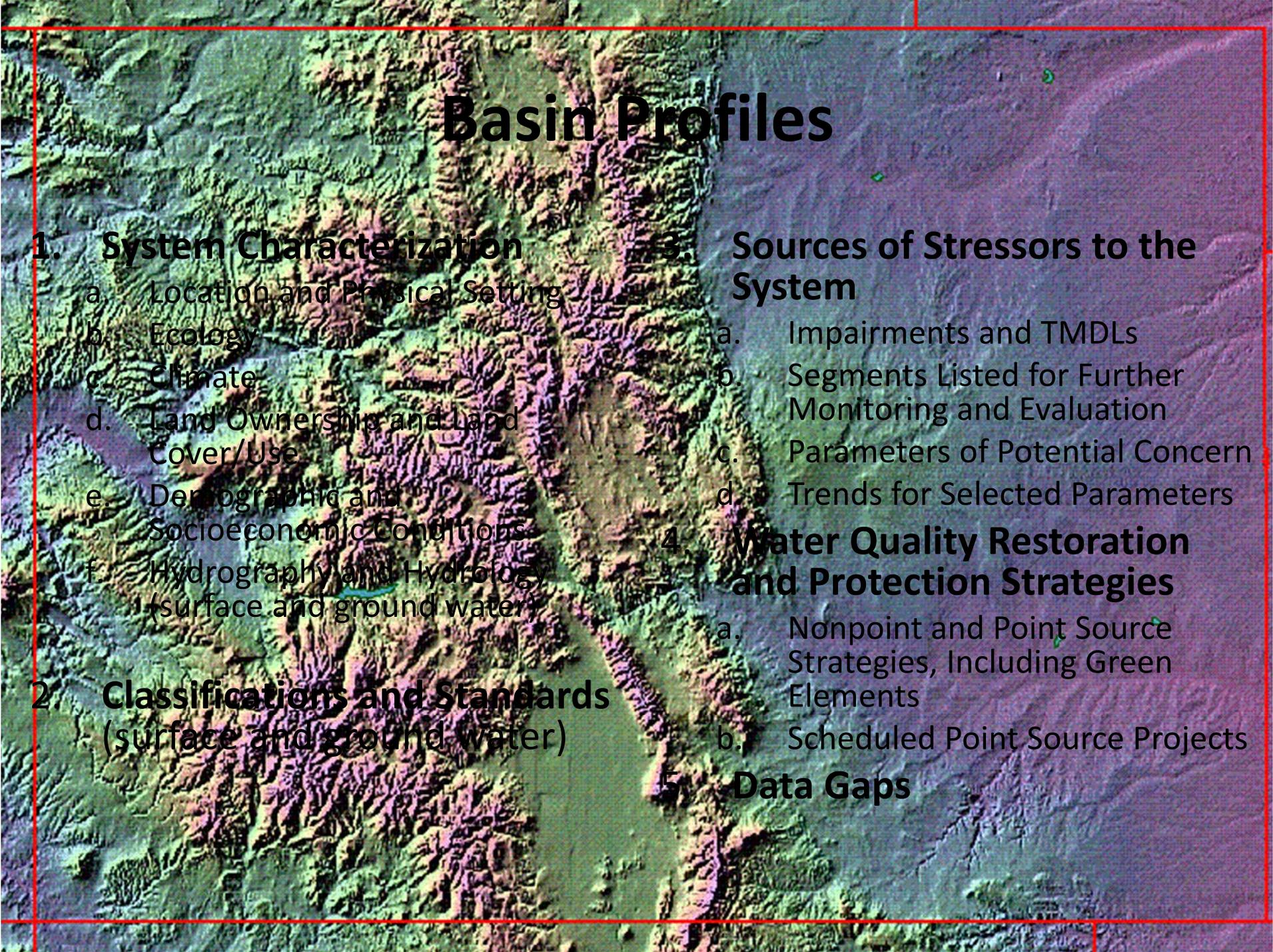
- *Integrated Water Quality Monitoring and Assessment Report, 2010* (aka 305(b) report, IR);
- Monitoring station-level assessment data to develop the Integrated Report; and
- Water quality data collected at long-term monitoring sites throughout the state.

A topographic map of a region, likely a watershed, showing various elevations and drainage patterns. The map is color-coded, with greens and yellows representing lower elevations and browns and purples representing higher elevations. A prominent river or stream flows through the center of the map. The map is framed by a red border.

# **SWQMP Basin/Sub-Basin Profiles: A Foundational Effort**

## **Major Tasks**

- **Develop a solid baseline of information for each major drainage basin and sub-basin;**
- **Illustrate findings with maps and other exhibits;**
- **Establish an inventory of the water quality problems and existing controls and programs that are in place within each of these drainage systems; and**
- **Incorporate green elements.**



# Basin Profiles

## 1. System Characterization

- a. Location and Physical Setting
- b. Ecology
- c. Climate
- d. Land Ownership and Land Cover/Use
- e. Demographic and Socioeconomic Conditions
- f. Hydrography and Hydrology (surface and ground water)

## 2. Classifications and Standards (surface and ground water)

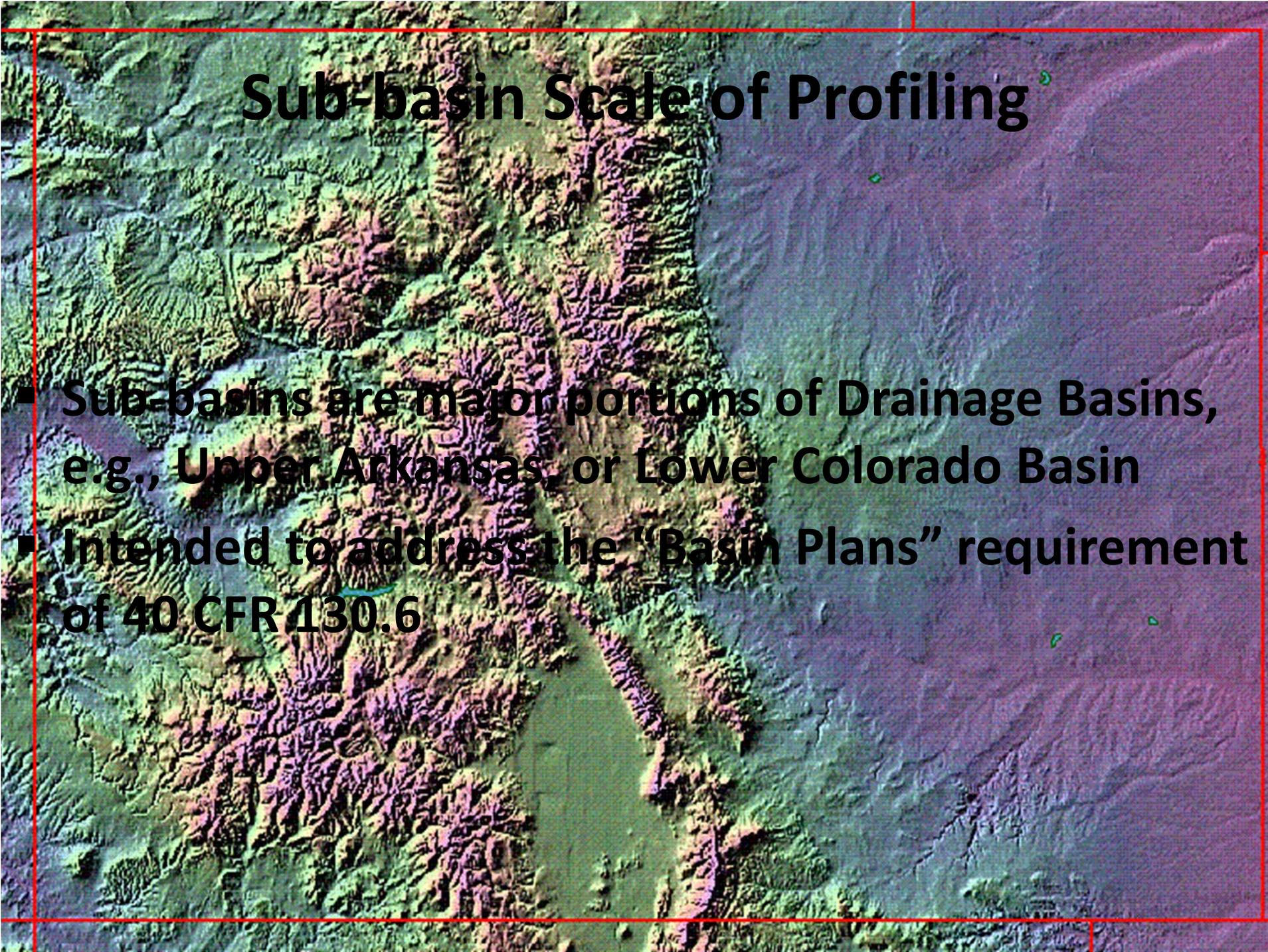
## 3. Sources of Stressors to the System

- a. Impairments and TMDLs
- b. Segments Listed for Further Monitoring and Evaluation
- c. Parameters of Potential Concern
- d. Trends for Selected Parameters

## 4. Water Quality Restoration and Protection Strategies

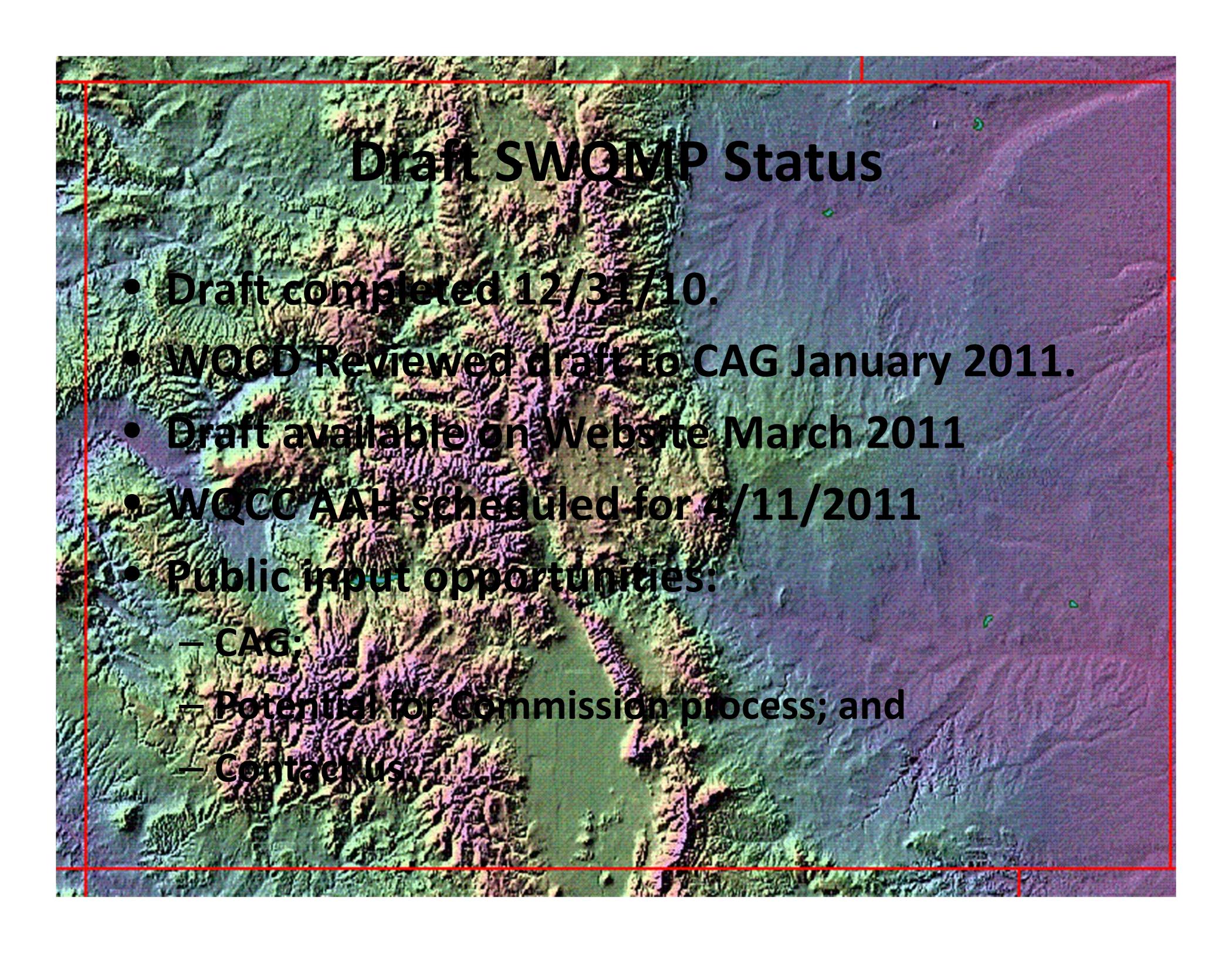
- a. Nonpoint and Point Source Strategies, Including Green Elements
- b. Scheduled Point Source Projects

## 5. Data Gaps

A topographic map of a drainage basin, likely the Upper Arkansas Basin, showing a central river channel and surrounding terrain. The map is color-coded by elevation, with higher elevations in shades of green and yellow, and lower elevations in shades of purple and blue. A red border is drawn around the map. The title "Sub-basin Scale of Profiling" is centered at the top in a large, bold, black font.

# Sub-basin Scale of Profiling

- Sub-basins are major portions of Drainage Basins, e.g., Upper Arkansas, or Lower Colorado Basin
- Intended to address the “Basin Plans” requirement of 40 CFR 130.6

The background of the slide is an aerial topographic map of a coastal region. The map uses a color gradient to represent elevation, with greens and yellows for higher elevations and blues and purples for lower elevations and water bodies. A prominent red border frames the entire slide content.

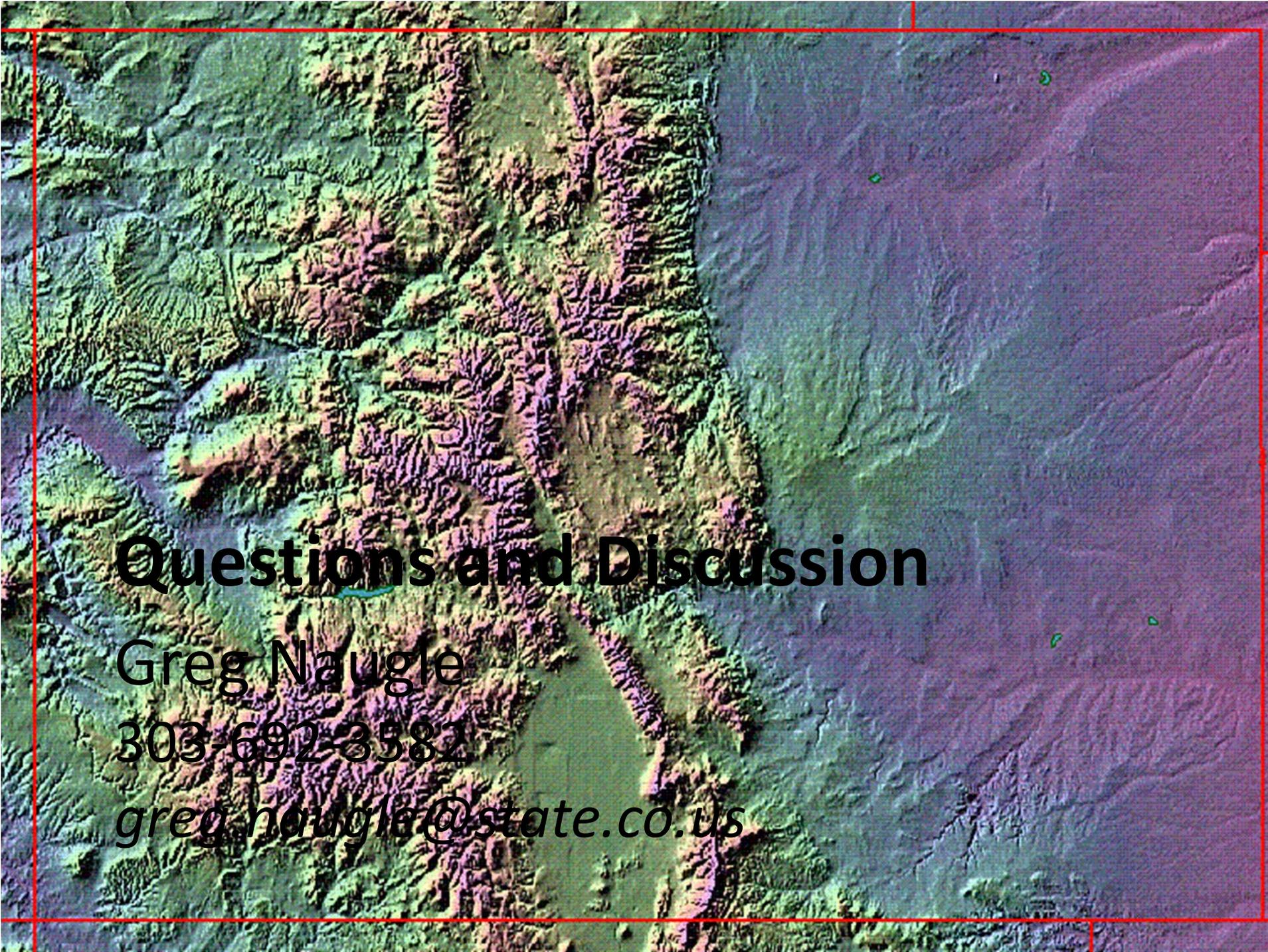
## **Draft SWQMP Status**

- **Draft completed 12/31/10.**
- **WQCD Reviewed draft to CAG January 2011.**
- **Draft available on Website March 2011**
- **WQCC AAH scheduled for 4/11/2011**
- **Public input opportunities:**
  - **CAG:**
  - **Potential for Commission process; and**
  - **Contact us:**

# Future Iterations of the SWQMP

Major Basin	Regulation No.	Rulemaking Hearing (June) / SWQMP Basin Updates start (Oct.)
None/Initial SWQMP approval	#31	2011
San Juan, Gunnison, and Dolores	#34, #35	2012*
Arkansas and Rio Grande	#32, #36	2013
Colorado and North Platte	#33, #37	2014*
South Platte	#38	2015
None/Updated SWQMP approval	#31	2016*

\* The Integrated Report (aka 305(b)) report is updated during even number years.

A topographic map showing a mountain range with a river valley. The terrain is color-coded by elevation, with higher elevations in purple and lower elevations in green and yellow. A river valley is visible on the left side of the map, and a road or path runs through the center of the mountain range. The map is framed by a red border.

# Questions and Discussion

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