

LOS ANGELES BASIN STORMWATER CONSERVATION STUDY

Los Angeles County Flood Control District
U.S. Department of the Interior – Bureau of Reclamation

TASK 2 – Water Supply & Water Demand Projections
Public Webinar
October 21, 2014



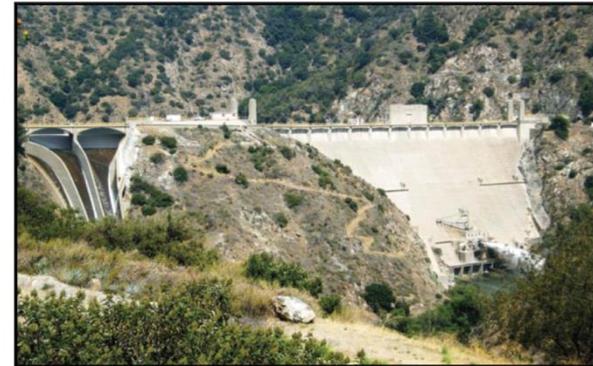
OVERVIEW

- Study Background
- Progress Update / Schedule
- Task 2 Findings
- Next Steps

RECLAMATION *Managing Water in the West*

Los Angeles Basin Stormwater Conservation Study

Plan of Study



U.S. Department of the Interior
Bureau of Reclamation
Southern California Area Office



County of Los Angeles
Department of Public Works
Alhambra, California



Los Angeles County
Flood Control District
Alhambra, California

December 2012

STUDY PARTNERSHIP

Collaboration Between »

- Los Angeles County Flood Control District
- U.S. Department of the Interior – Bureau of Reclamation

Cost Estimate » \$2.4 million

Study Length » 3 Years

- Completion in December 2015
- Task 2 started in March 2014



STUDY OBJECTIVES

- 1) Evaluate *existing* water conservation under *future* conditions
- 2) Evaluate *potential new* facilities & operational changes for a future climate

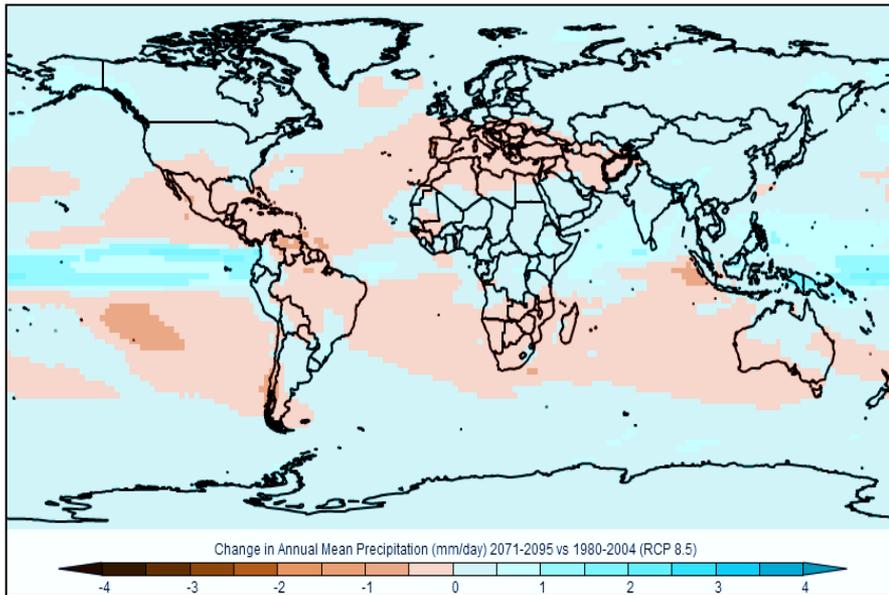


OUTCOME

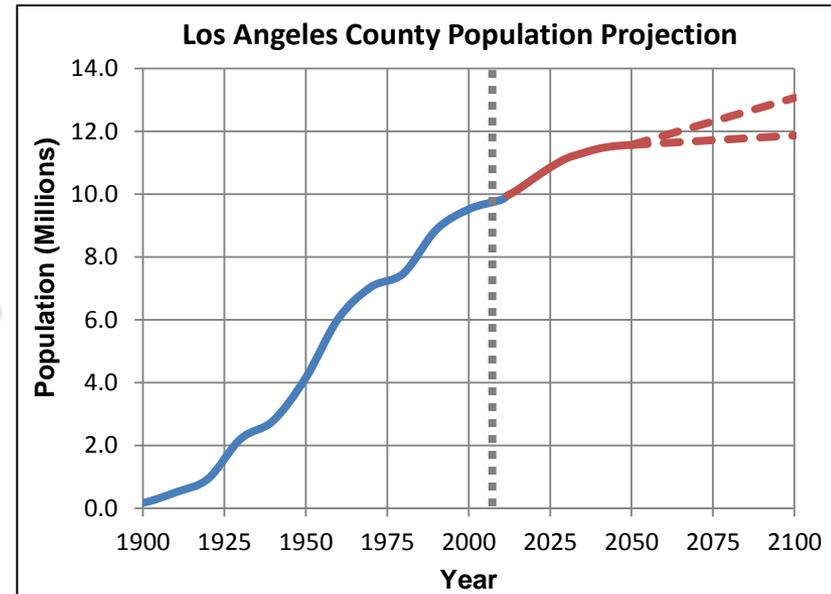
*Tool for Future
Planning by
LACFCD &
Other Local
Partners*

KEY CONSIDERATIONS

- Climate Change
- Population growth

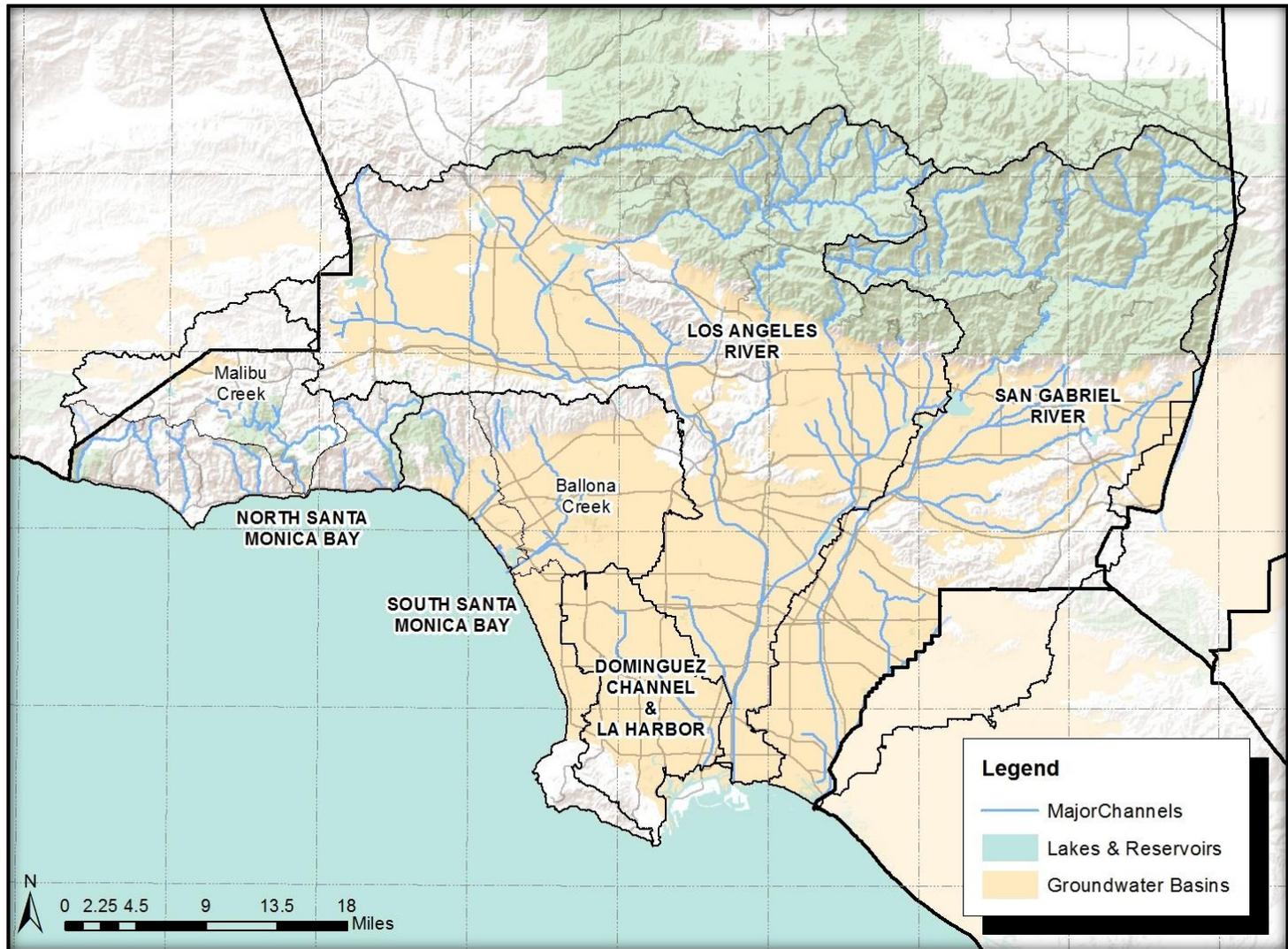


USGS - CMIP5 Global Climate Change Viewer

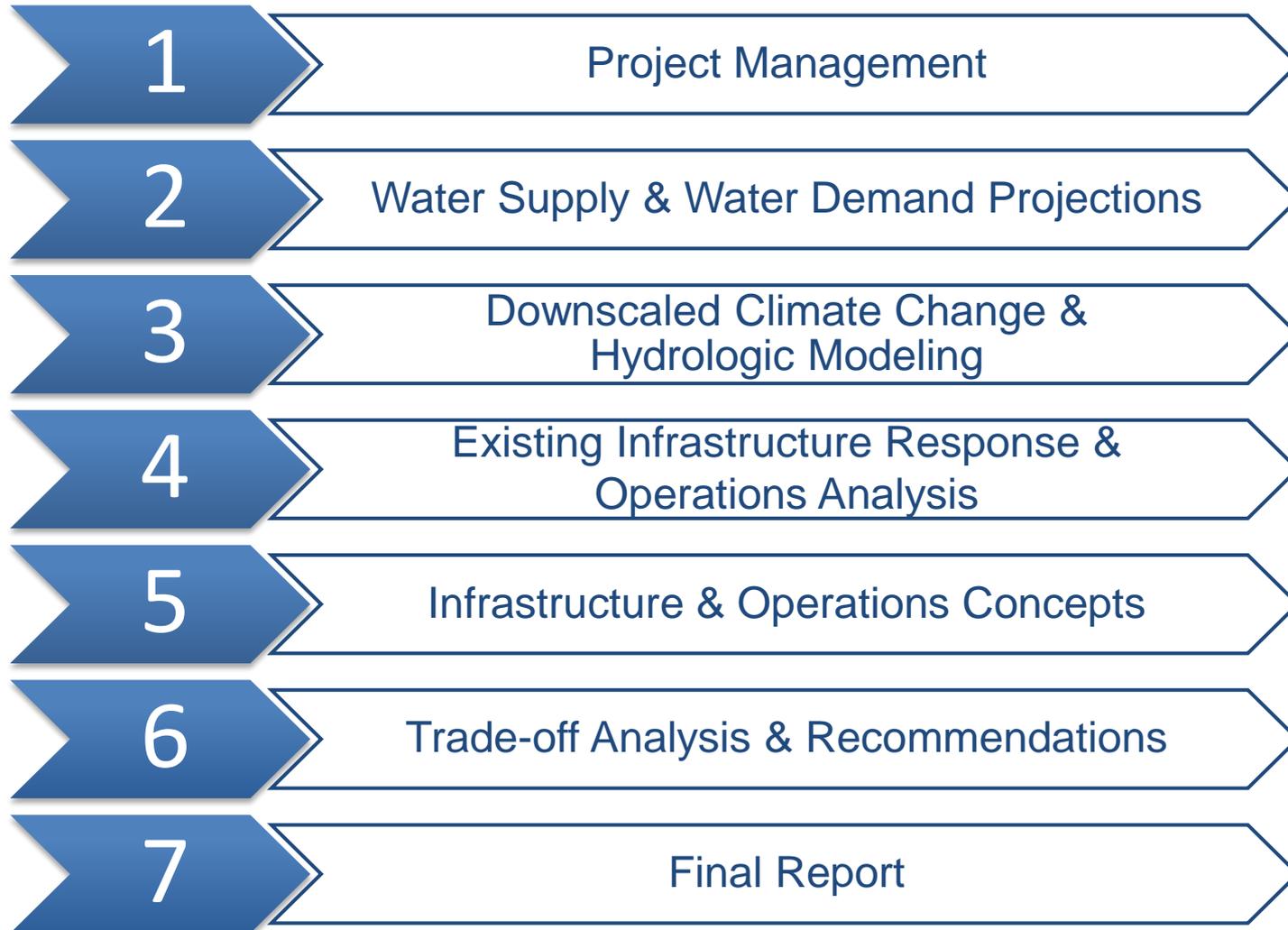


California Department of Finance, - State and County Population Projections

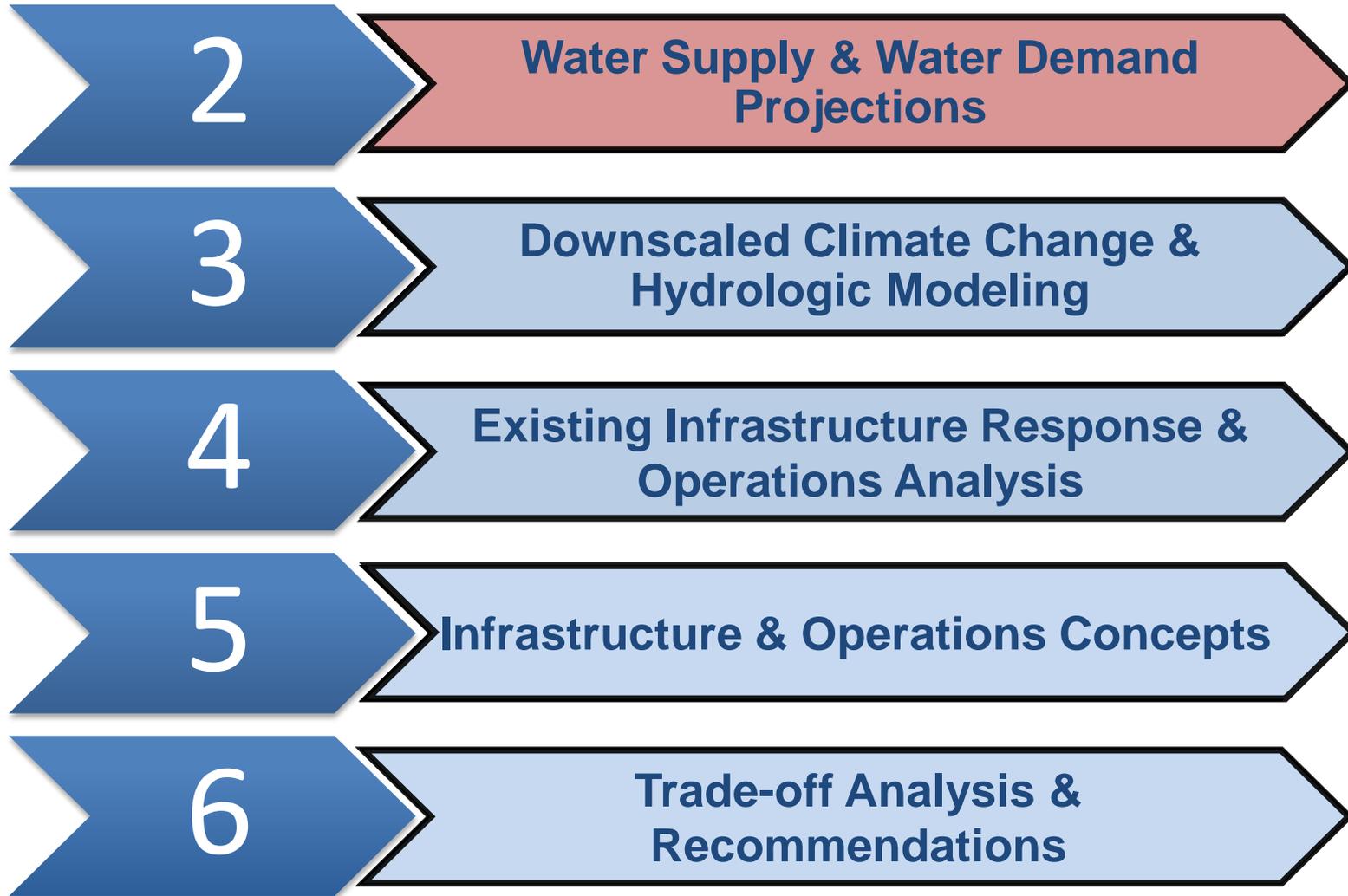
STUDY AREA



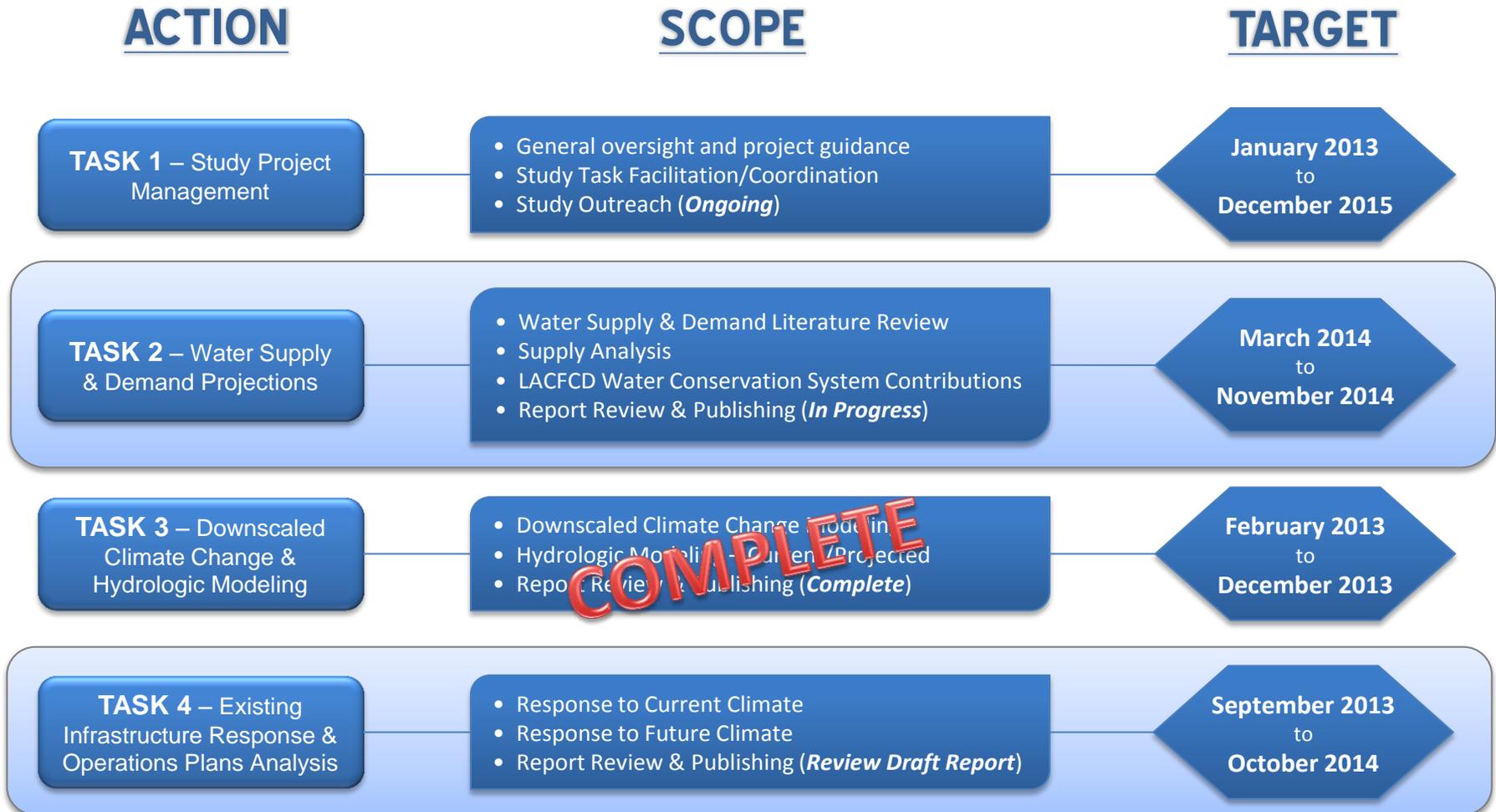
STUDY TASKS



MAJOR STUDY TASKS



STUDY SCHEDULE



STUDY SCHEDULE



TASK 2 – GOALS FOR TODAY

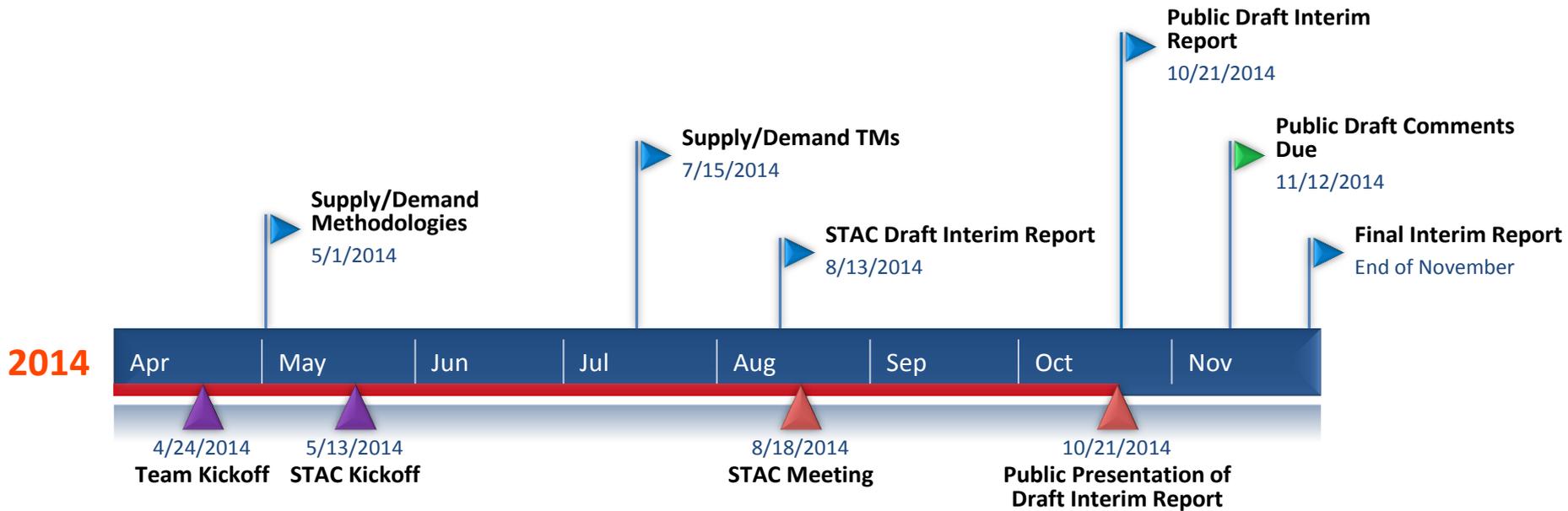
1. **Task 2 Overview & Progress**
2. **Present Findings**
3. **Discuss “big picture” comments and concerns**
4. **Questions & Answers**

TASK 2 – OVERVIEW

Purpose is to conduct an analysis that:

- Estimates water demands and available supplies
 - Years 2010, 2035, and 2095
- Uses existing planning documents where available; uses reasonable assumptions where quantifications not available
- Incorporates climate change impacts
- Informs Task 5 which explores concepts to capture stormwater

TASK 2 – PROGRESS



TASK 2 – REPORT OVERVIEW

➤ Provides projected supplies & demands out to 2095

- Not intended to determine which available supplies will be implemented
- Facilities will be needed to implement supplies
- Factors to consider: environmental, cost, public policy, reliability
- Gap is projected between available supplies and supplies that are used
 - Stormwater and conservation are likely to be implemented

➤ Basis for projections:

- 2010 – Existing planning documents
- 2035 – Existing planning document projections
- 2095 – Developed assumptions

TASK 2 – CONSIDERATIONS FOR 2095

➤ Organization

- By watershed
- Re-apportionment for demand and supply distributions

➤ Demand

- “Low” (Australia), “Medium” (Long Beach), and “High” gpcd assumptions

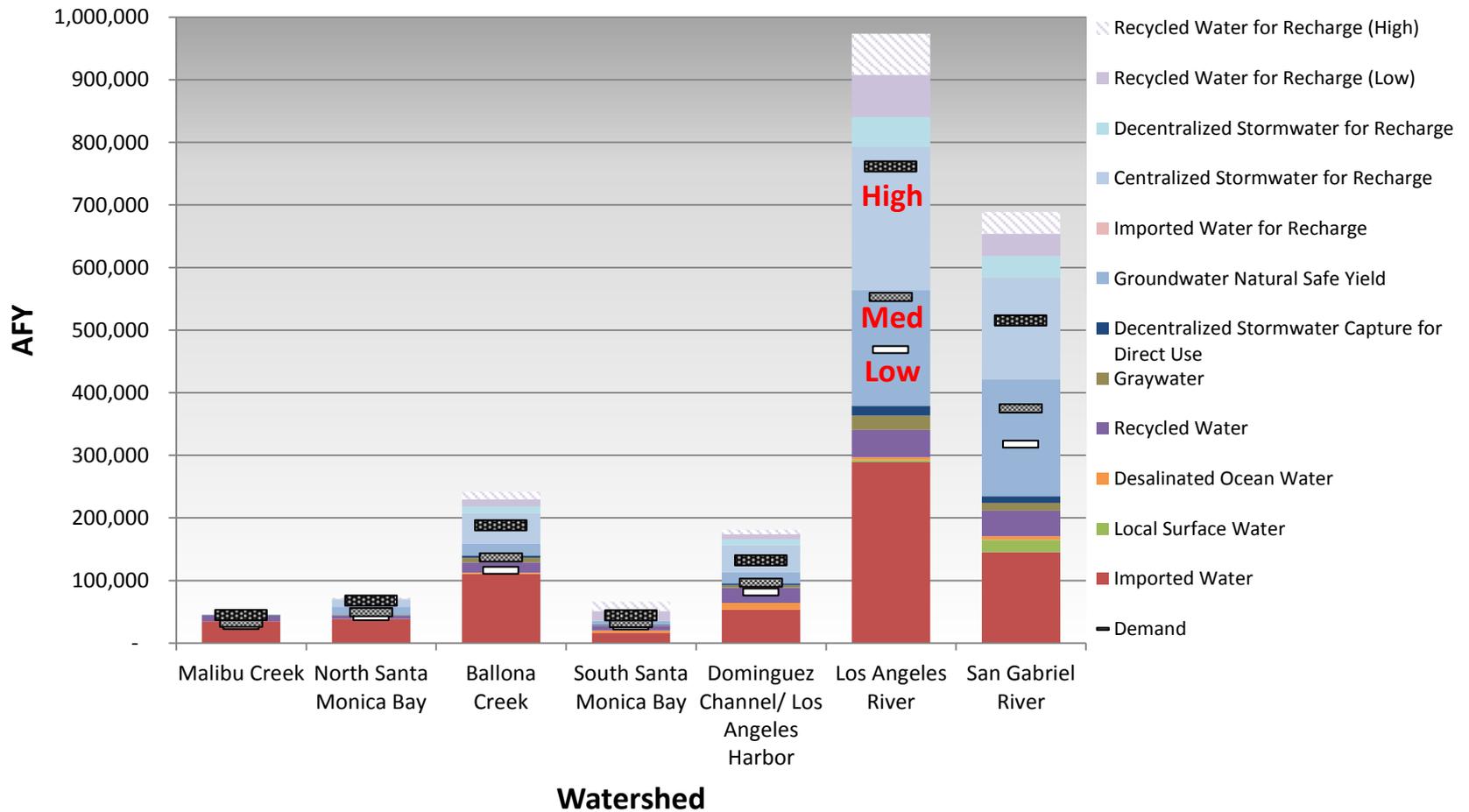
➤ Available Supplies

- “Available supplies” vs. “available supplies not used”
- Direct Use vs. Replenishment/Recharge
- “High” and “Low” Recycled Water Recharge scenarios
- Stormwater supply divided into 3 categories
- Imported water for recharge replaced with recycled water and stormwater

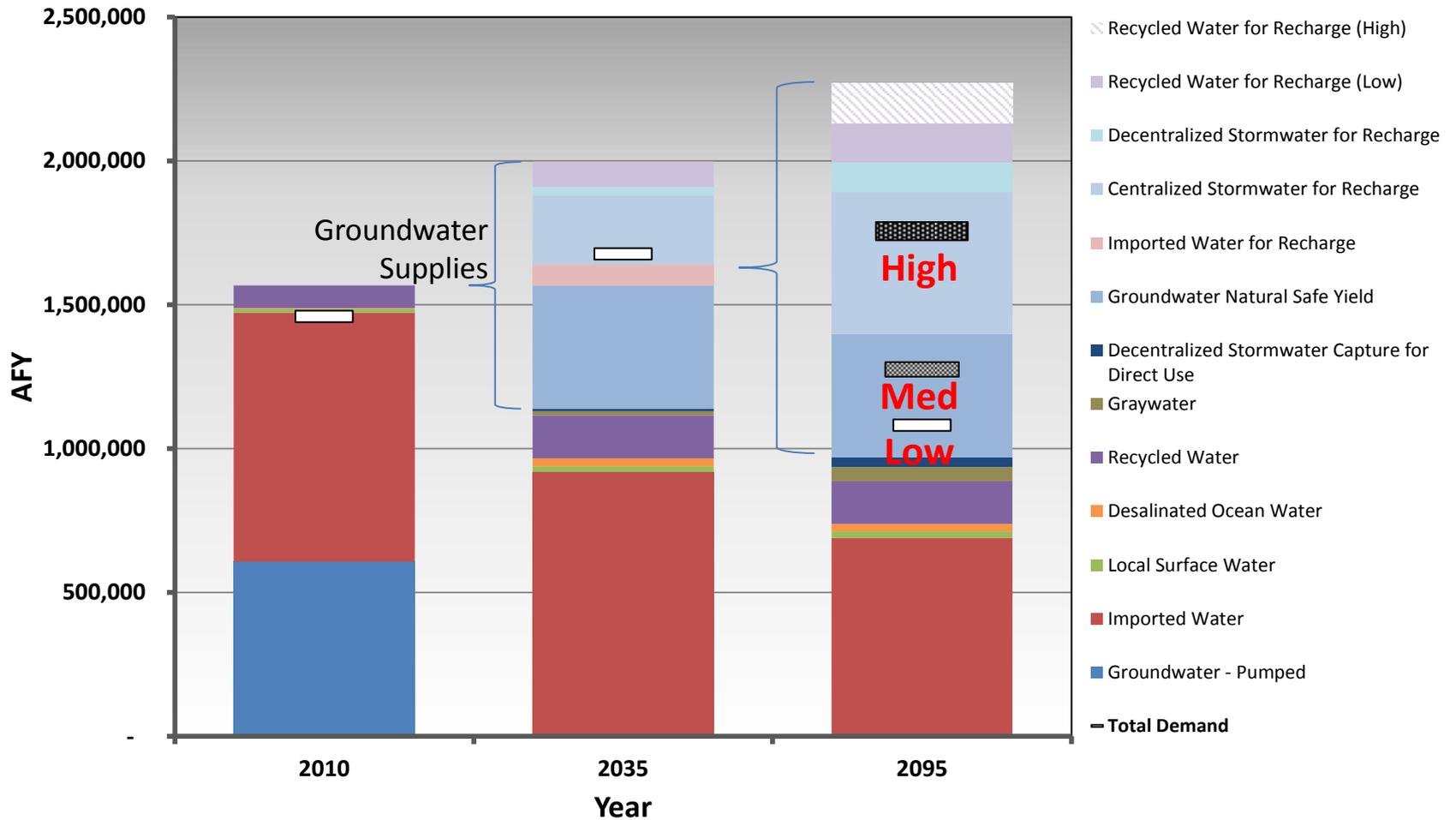
TASK 2 – SUMMARY OF FINDINGS

- **Available supplies exceed projected demands for 2095 in LA Basin**
 - All three demand scenarios
 - Both recycled water replenishment/recharge scenarios
- **Significantly higher supply availability and demands in some watersheds**
 - Los Angeles River watershed
 - San Gabriel River watershed
 - Larger geographic areas, populations, and groundwater basins

WATERSHED SNAPSHOT – 2095



LA BASIN PROGRESSION TO 2095

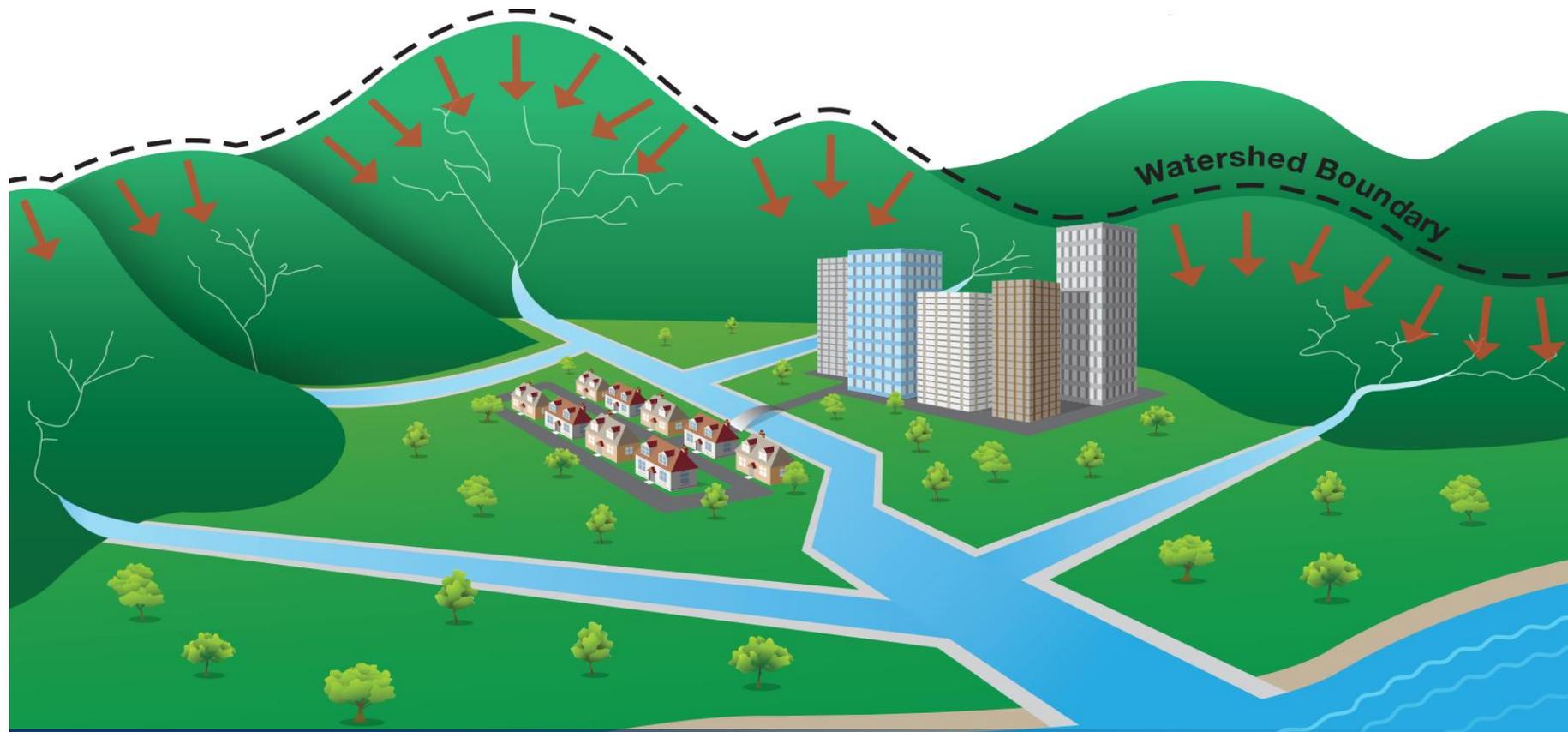


TASK 2 Q&A



Morris Dam

NEXT STEPS » CONCEPTS & RECOMMENDATIONS



Enhancing the Water Conservation System to Address Future Conditions

NEXT STEPS » CONCEPTS & RECOMMENDATIONS



Hansen Spreading Grounds

UPCOMING STUDY ITEMS

Task 5 Scoping Sessions / Design Charettes – Fall 2014

- Develop facility enhancements and/or new concepts

Next Task

- Task 6 – Trade-off Analysis & Recommendations

CONTACT INFORMATION

LOS ANGELES BASIN STORMWATER CONSERVATION STUDY

<http://www.usbr.gov/lc/socal/basinstudies/LABasin.html>



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