

SAN JUAN WATERSHED PROJECT

Local  Reliable

AUGUST 10, 2016

TODAY'S DISCUSSION



Current Water Supply

San Juan Watershed Project

Working Together

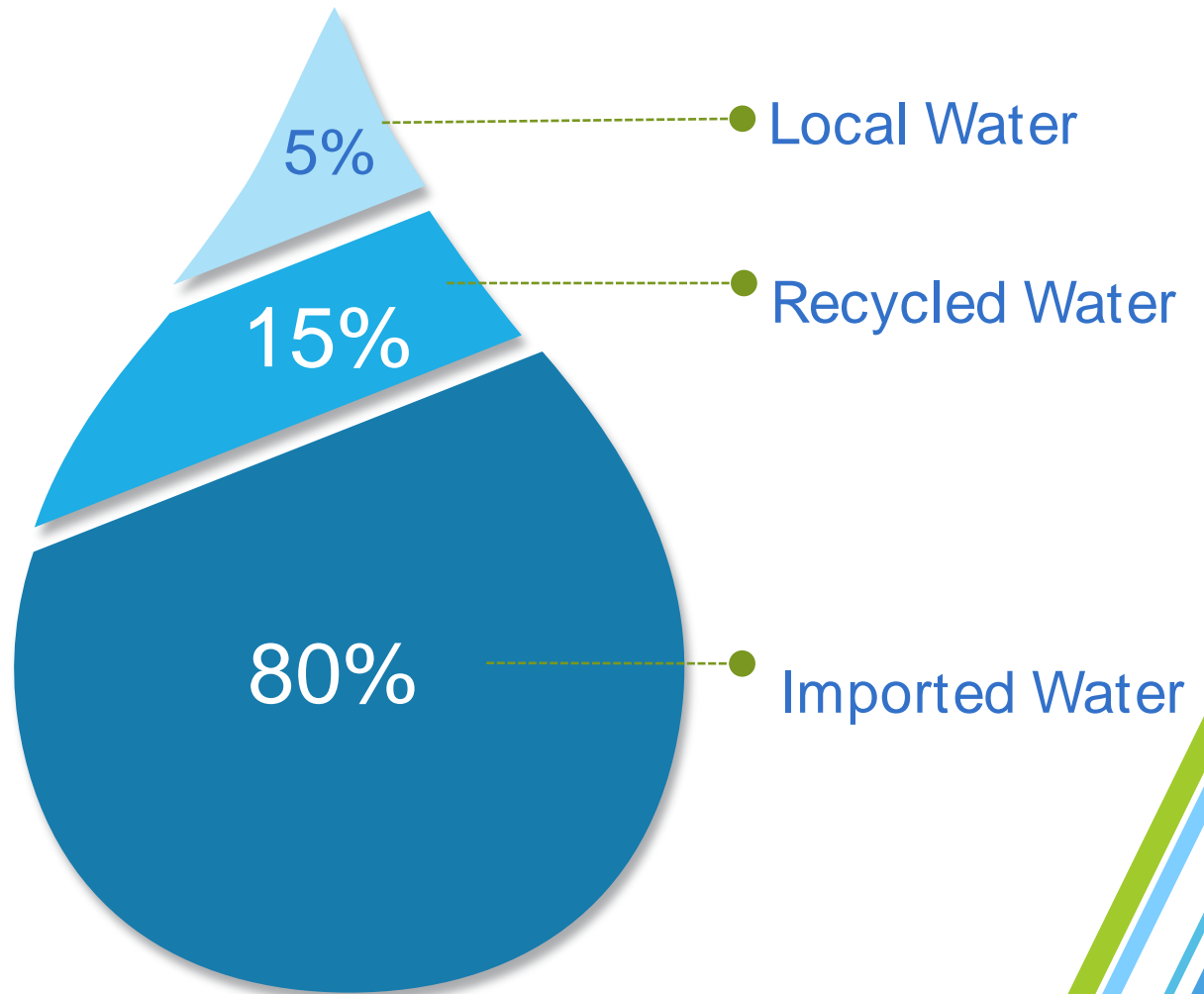
Live-stream recharge

Basin water quality improvements

In-basin retention time

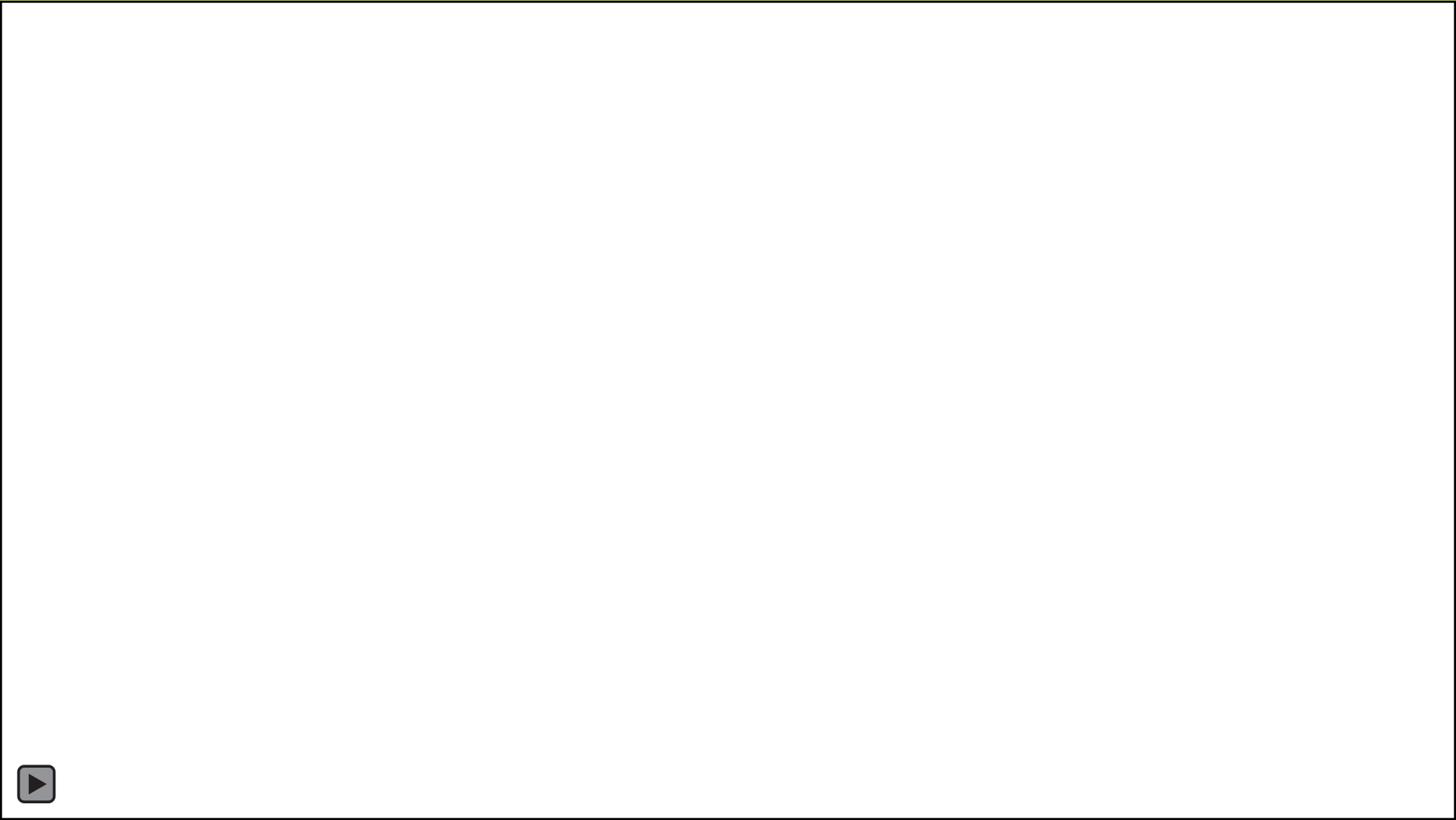


CURRENT
SUPPLY
SOUTH
ORANGE
COUNTY



104,000 AFY

SAN JUAN
WATERSHED
PROJECT



Established in 1971

Joint Powers Authority

Oversee water resource development

Extensive technical studies on feasibility

San Diego Regional Water Quality
Control Board

SAN JUAN BASIN AUTHORITY



**UNDERUTILIZED
WATER
RESOURCES**

Uncaptured groundwater underflow

Stormwater runoff

Ocean disposal

**Uncaptured Water Today:
24,000 AFY (est.)**

Basin to serve as reservoir

SAN JUAN
WATERSHED
PROJECT

IMAGINE...

Local  Reliable

17,240 AFY

5.6 billion gallons

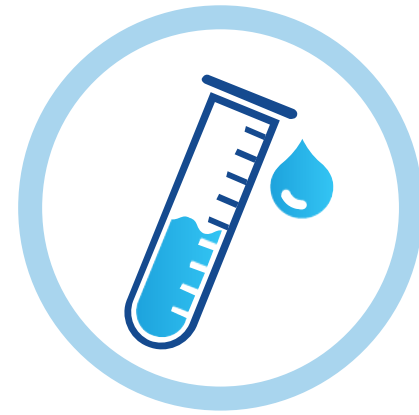
ultimately Enough Water
For 50K Families



SAN JUAN
WATERSHED
PROJECT



LOCAL SUPPLY



WATER QUALITY

GOALS and
BENEFITS



ECOLOGICAL
ENHANCEMENTS



WATER STORAGE

SDRWQCB + SAN JUAN WATERSHED



SAN JUAN WATERSHED PROJECT PHASE 1



New Water: 1,120 to 1,980 AFY

Install rubber dams

Capture and filter stormwater

Utilize Existing Facilities

Capital: \$34 million

June 2016-2019

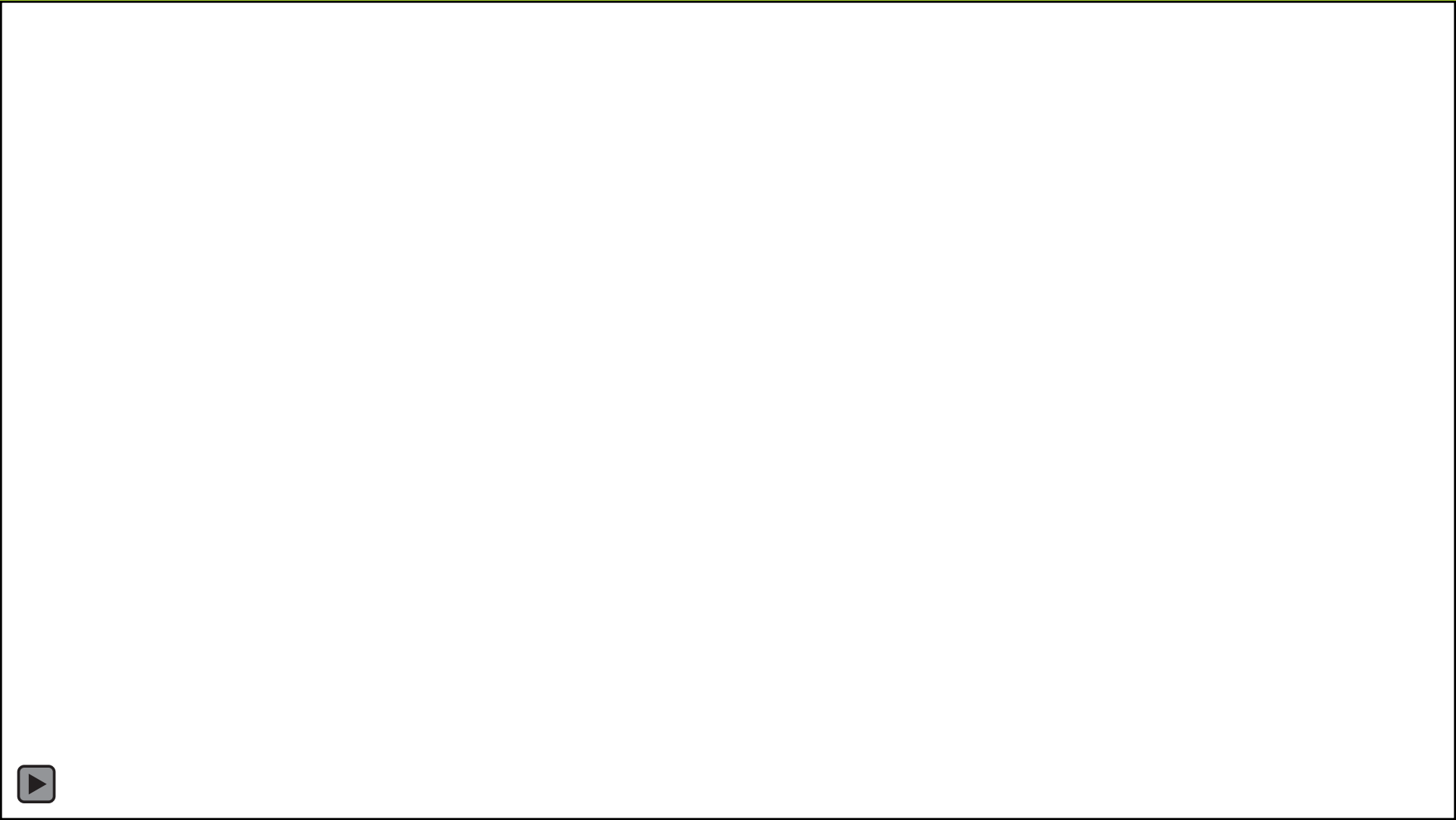


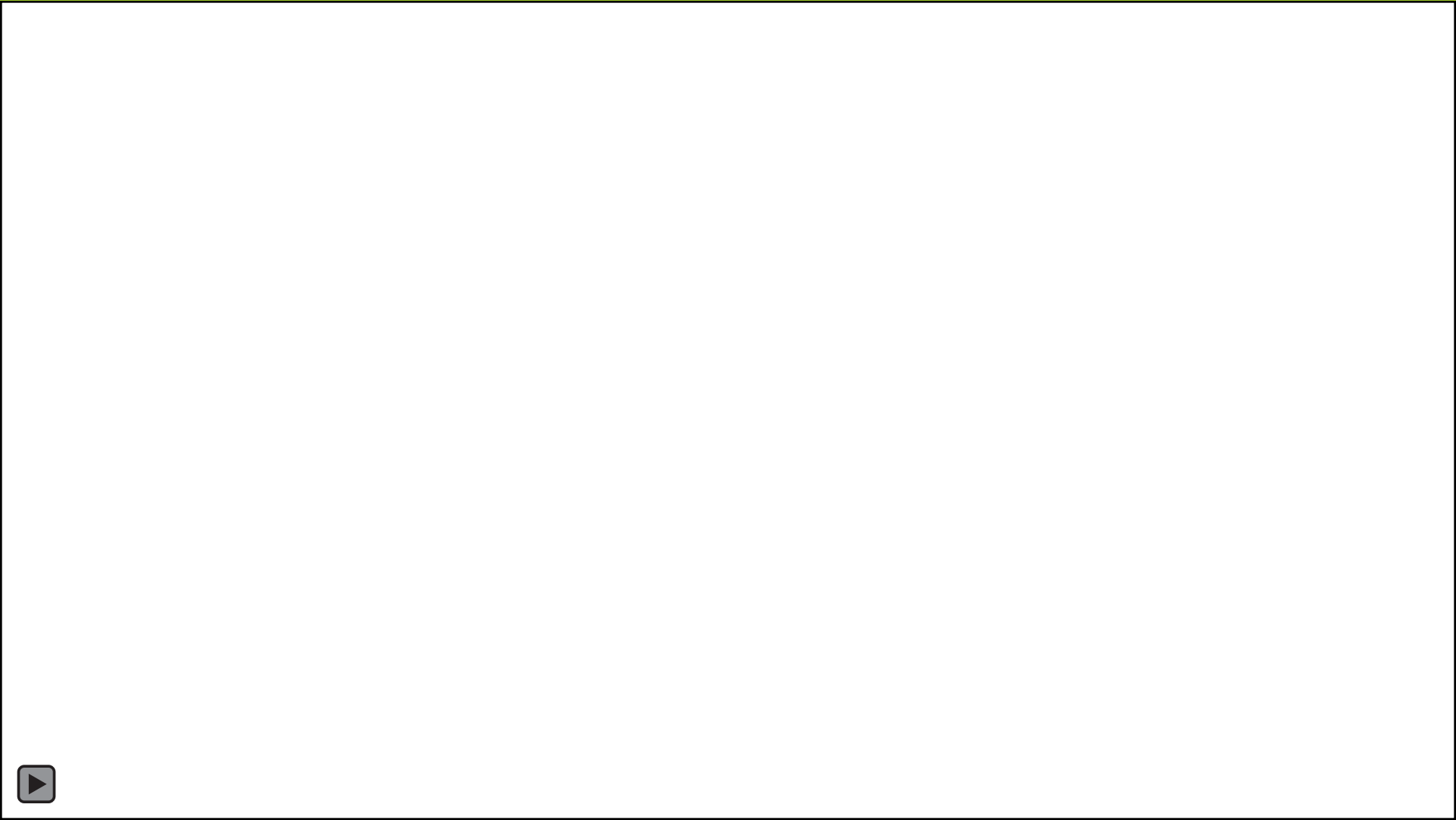
PROJECT PHASE 1











BENEFITS

PROJECT PHASE 1

▼ Water Supply

Enhance Reliability

Provide Drought
Proofing

Utilize Existing
Treatment Facilities

▼ Watershed

Support MS4
Requirements

Immediate Water
Quality Improvement

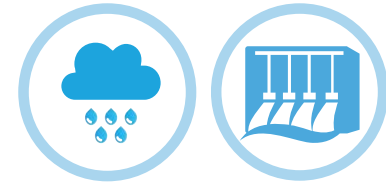
Environmental
Enhancements

Stabilize
Streambed



Benefits seen within 24-36 months

KEY DATES



PROJECT PHASE 1

CEQA JUL 2016 AUG 2017

Design/Permitting OCT 2016 SEP 2017

Construction OCT 2017 JUN 2018

SAN JUAN WATERSHED PROJECT PHASE 2



New Water: 2,660 to 4,920 AFY

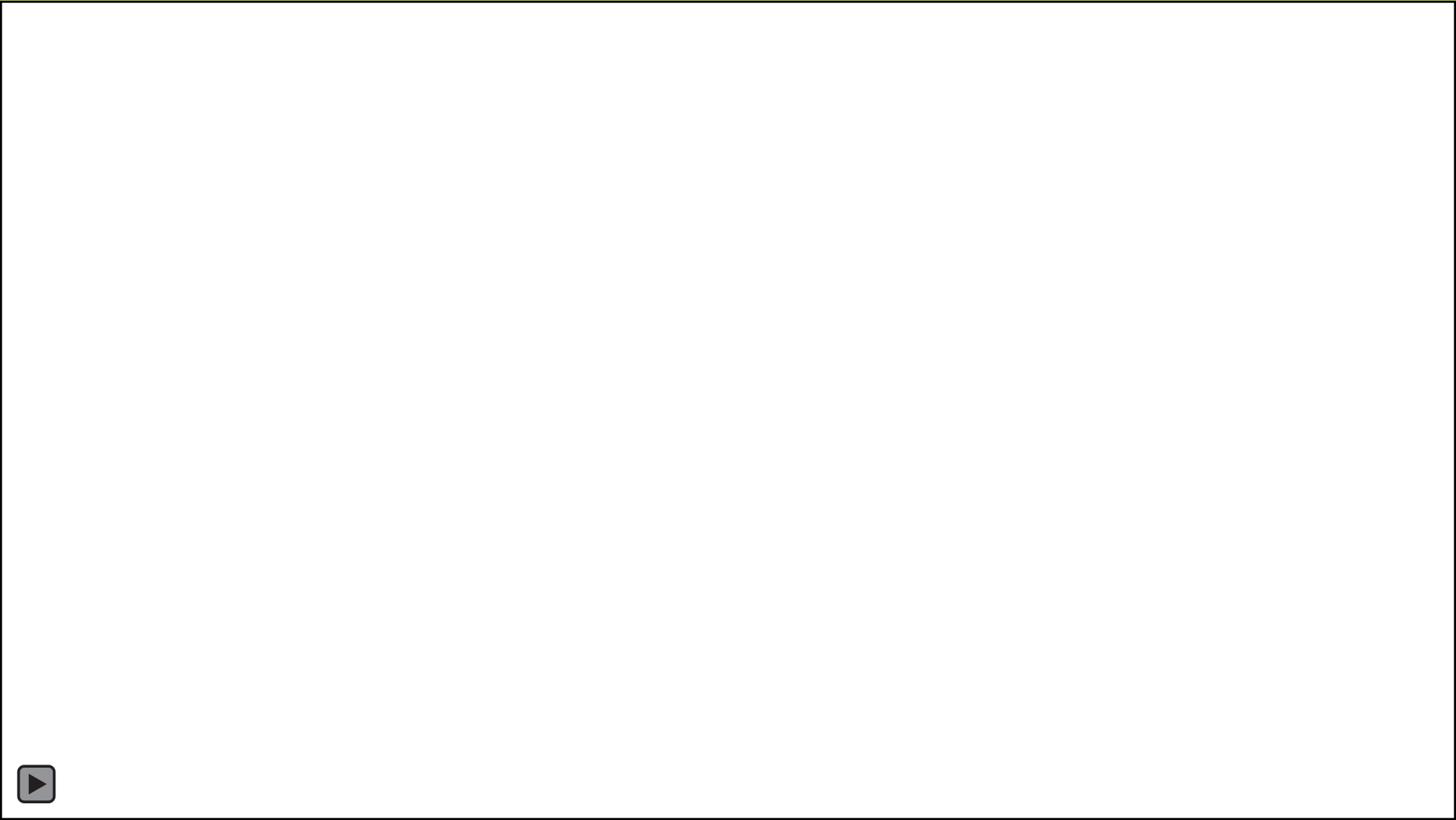
**Capture and filter
stormwater + recycled water**

Capital: \$86 million

2017-2023

**PROJECT
PHASE 2**





BENEFITS

- ▼
- Affordable/Reliable Supply
- Maximize use of recycled water
- Water Storage
- Ecological Enhancements
- Reduce secondary effluent to ocean

PROJECT PHASE 2



SAN JUAN WATERSHED PROJECT PHASES 3 & 4



PROJECT PHASE 3

New Water: 2,660 AFY

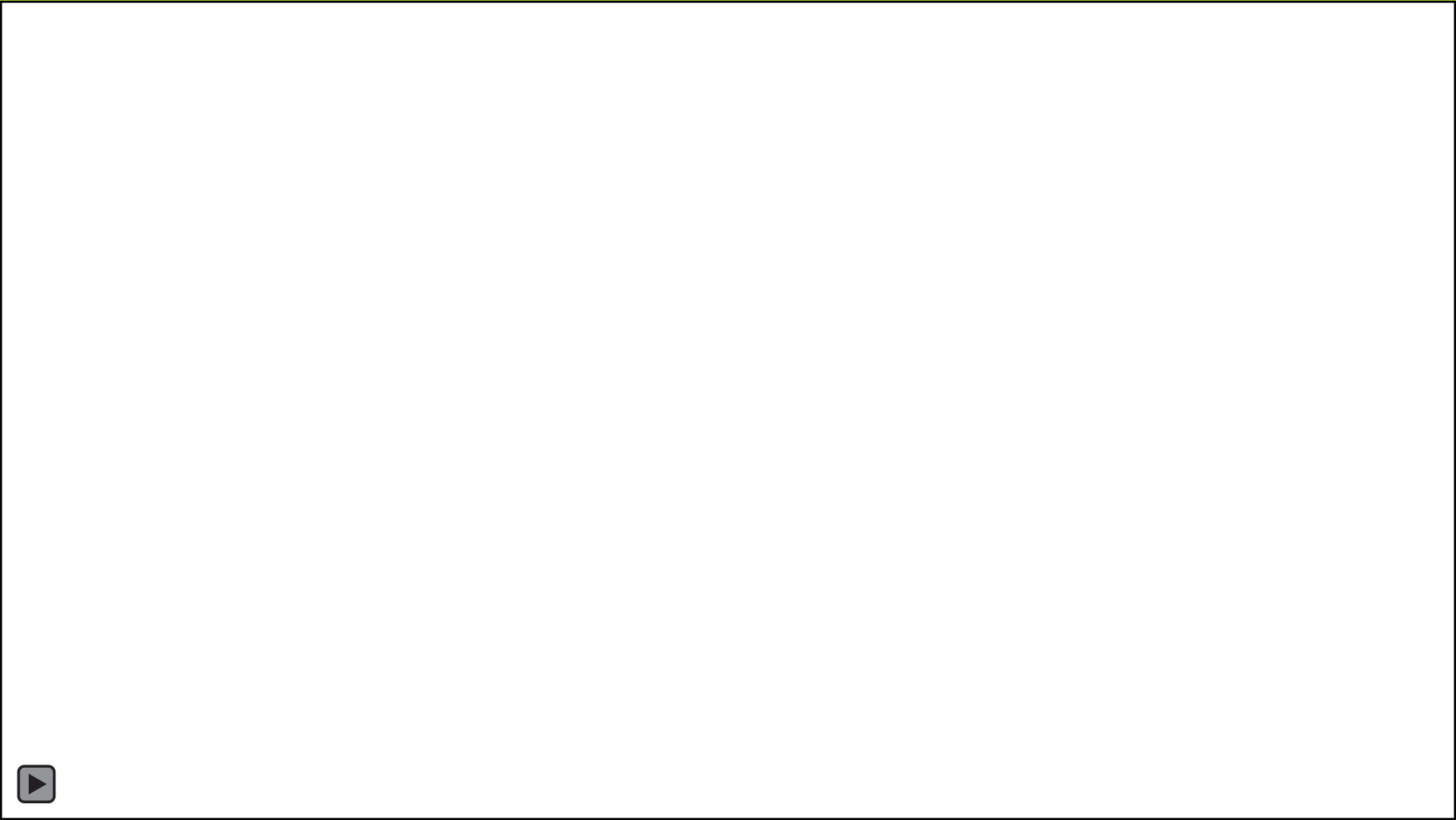
Incidental recharge
of recycled water



PROJECT PHASE 4

Total Project: 8,220 AFY





SDRWQCB + SAN JUAN WATERSHED



NEXT STEPS

SDRWQOB
+
PROJECT
PARTNERS

Permitting Requirements

Policy Evaluation

MS4 requirements

Dams

Live-stream recharge

Water quality improvements

In-basin retention time

Staffing requirements





Questions & comments

SAN JUAN
WATERSHED
PROJECT

Local  Reliable