## Inland Empire Brine Line Storm Watch – January 2017

SAWPA Commission Item 5.A February 7, 2017

### Recommendation to Commission:

Receive and file

### **Highlights**

No significant impacts to Brine Line

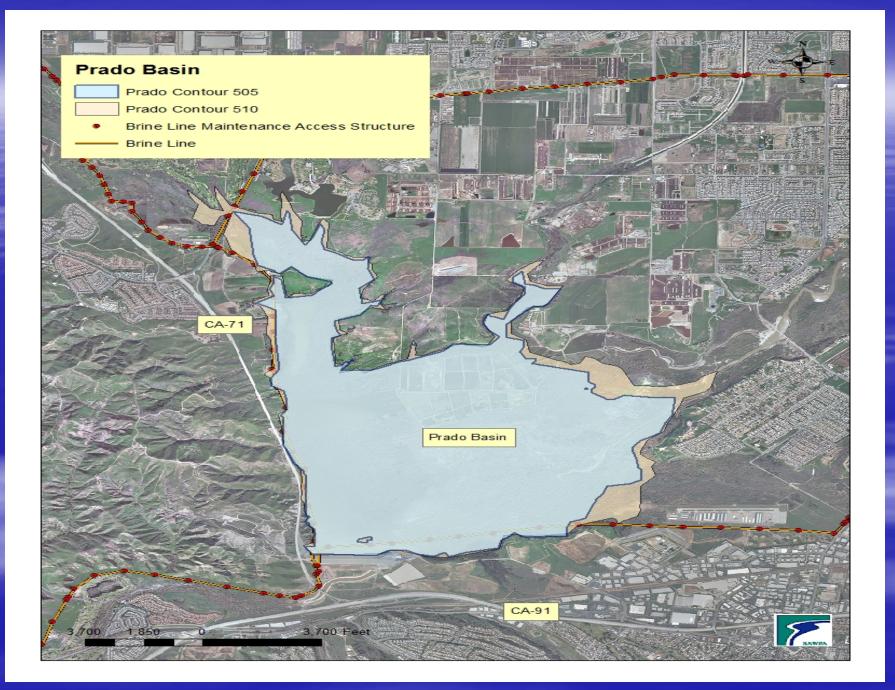
Mostly local flooding,

Emergency discharges from WRCRWA and WWRF

Temescal and Arlington Desalters asked to stop discharging to the Brine Line for a short period to accommodate WRCRWA increased emergency flows.

OCSD activated high flow emergencies

Access road erosion on Reach 4







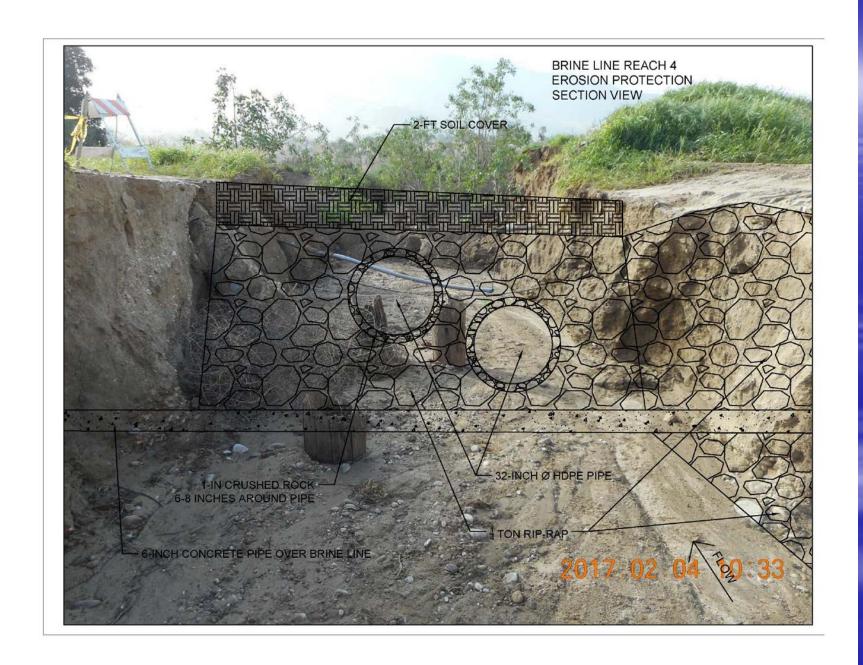












### **Storm Watch - Preparation**

Storm events outside of business hours presents additional challenges

Continued communication through cell phones

OCSD activated high flow emergencies

SAWPA established a 24-hour emergency phone number

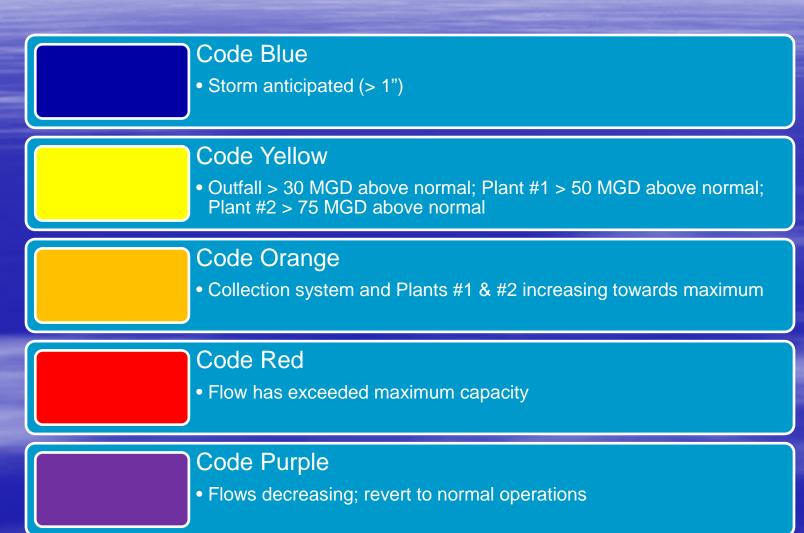
Rotating on-call staff

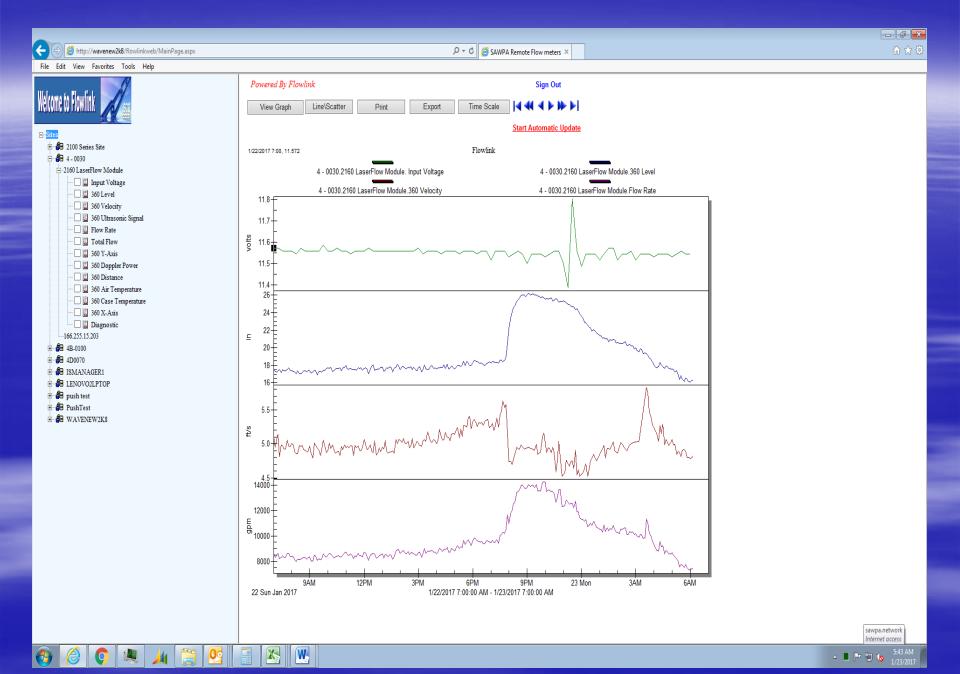
Emergency response contractors

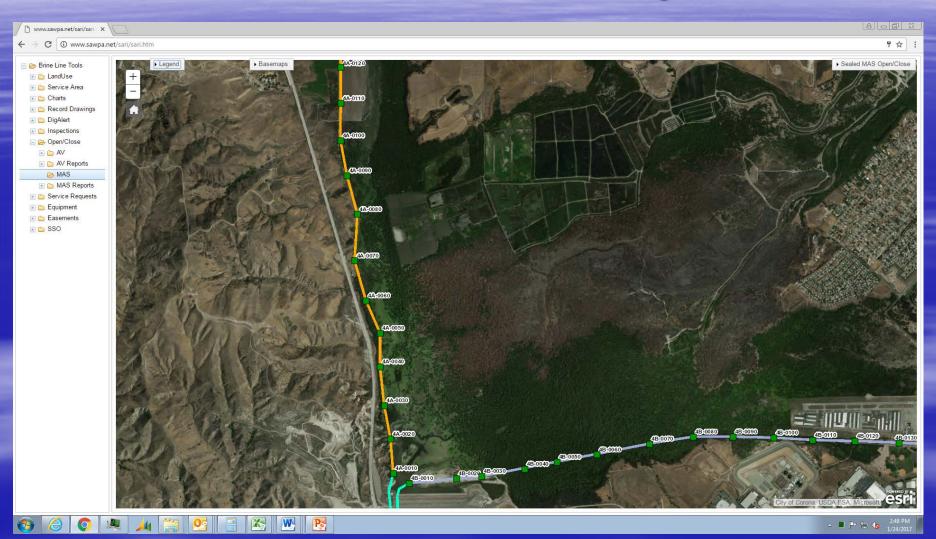
**Emergency response by Member Agencies** 

Tools to monitor flows remotely and keep track of status of assets

## OCSD High Flow Emergency







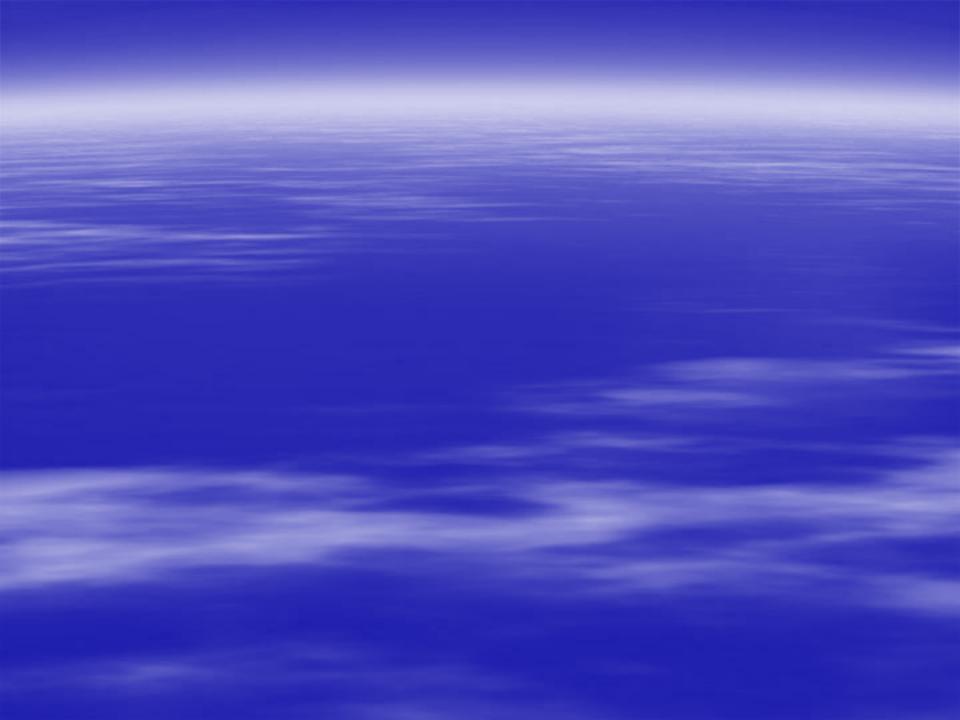
## Critical Success Factors

- 1. Minimize disruptions to customers.
- 5. Protect and preserve the useful life of the Brine Line assets through strategic maintenance, repair, and capital improvements.
- OCSD treatment plant and the environment from non-compliant dischargers, and (2) eliminate any uncontrolled pipeline releases.

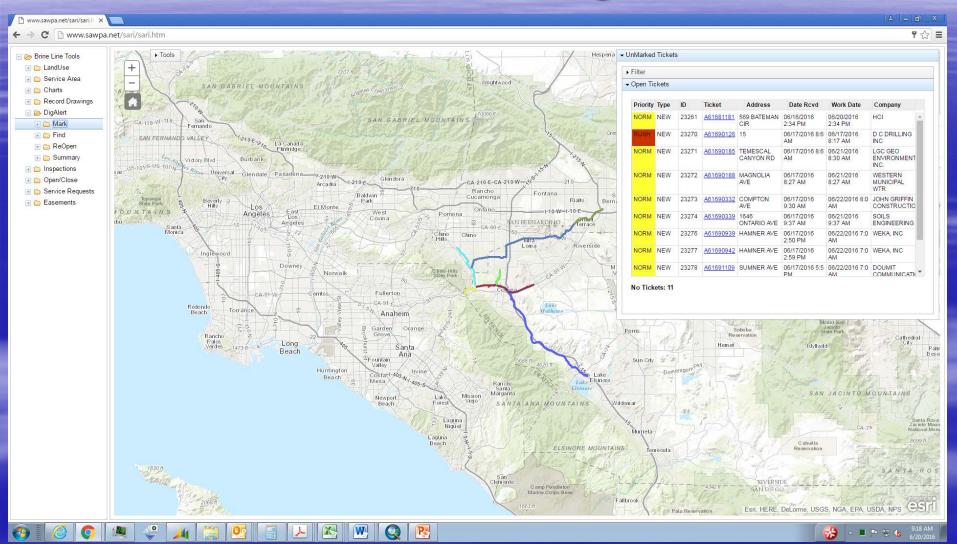
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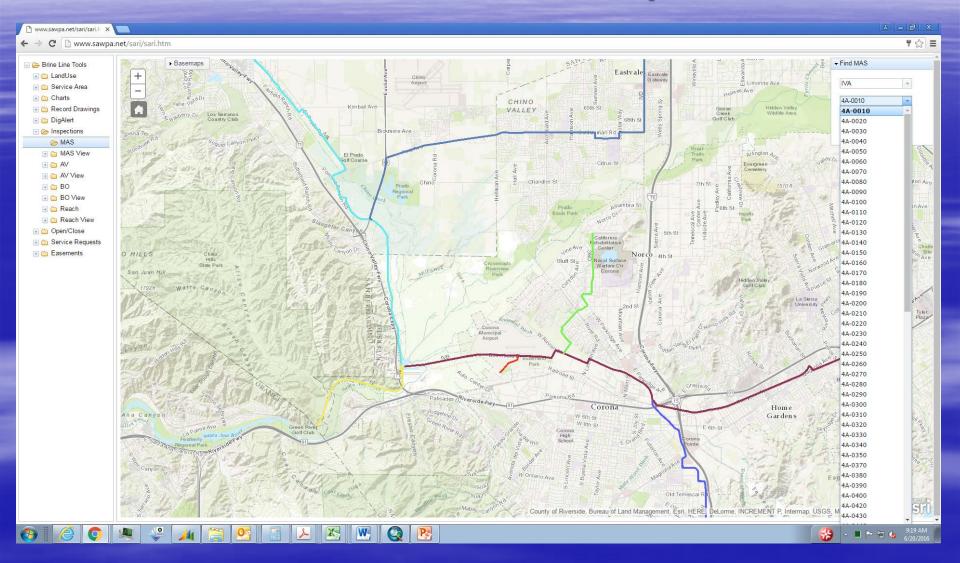
## QUESTIONS??



# GIS Tools - DigAlert

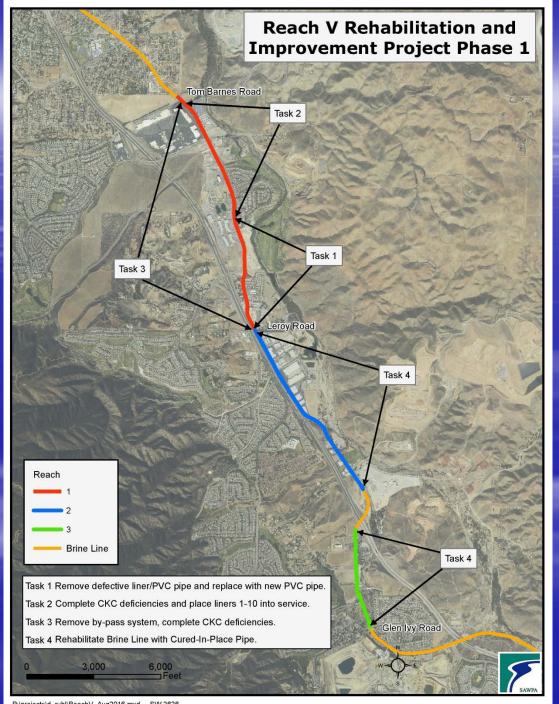


# GIS Tools - MAS Inspections



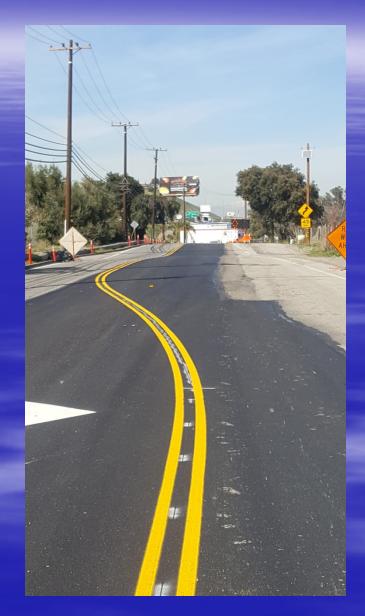
## Inland Empire Brine Line Reach V Rehabilitation and Improvement Project – Phase 1

Item 5.B February 7, 2017





























### Public Outreach

- Project Update Brochures
- Construction Hotline
- Construction E-mail address
- Posting to We R Temescal Valley Facebook Page
- Project Website





#### PIPELINE PROJECT UPDATE

#### ► WHAT'S NEW AND WHY

The contractor upgrading the Brine Line, WEKA Inc. of Highland, CA, is operating work crews at full staffing, maximizing production and efficiency on the project. In addition, repaving a segment of Temescal Canyon Road in Corona is scheduled to start on Friday, 11/4, and continue into early next week.

#### **▶** WHAT IT MEANS TO YOU

WEKA will replace the temporary asphalt on Temescal Canyon Road near Fashion Drive – restoring a smooth driving surface on a portion of the roadway disturbed by work on the Brine Line. Final resurfacing will follow later. Generally, construction may slow traffic between Tom Barnes Street and Leroy Drive, 9 AM to 5 PM.

#### **▶ PROCESS AND TIMELINE**

The project remains fast tracked, reducing inconvenience while ensuring high-caliber work on the pipeline. The upgrades in Corona may be finished as soon as the end of November, with other areas in Phase 1 completed in early 2017. Write to us at construction@sawpa.org.



#### **Project Overview**

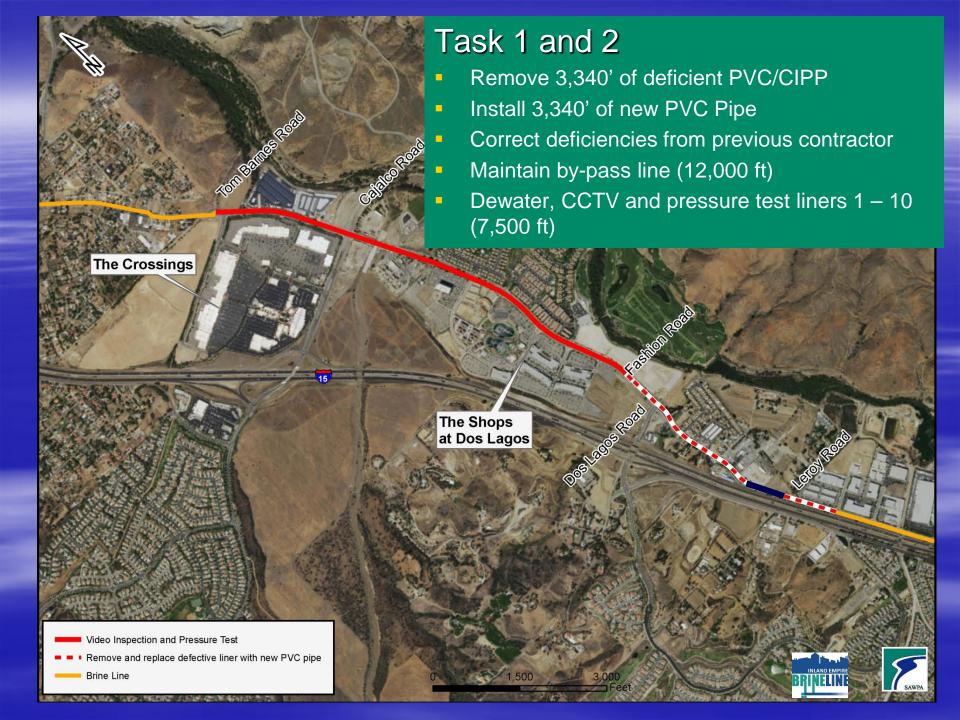
SAWPA is working to test, fortify and/or replace 5 miles of the Brine Line, an underground pipeline that conveys salty water from the Inland Empire to the Pacific Ocean. The brackish water comes from key sectors of the Inland economy, including power plants, manufacturers, and groundwater desalters that produce large volumes of drinking water.

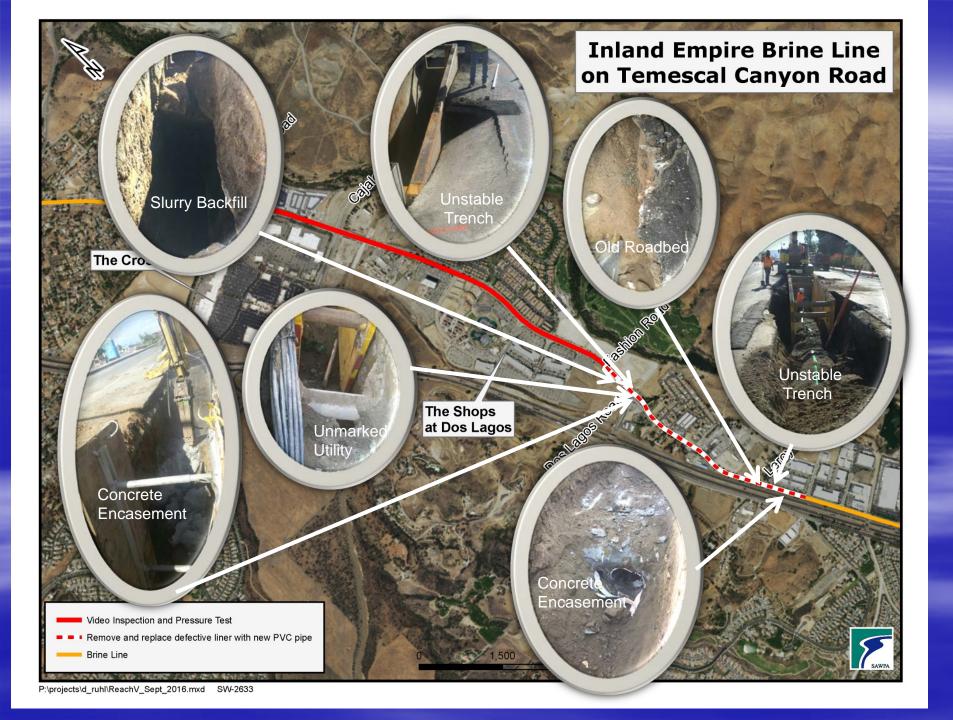
The project calls for placing new pipes within older pipes which have lost their shape over time. With loss of shape comes increased risk of spills, and the upgrades follow a 2011 Brine Line leak that was remediated. Water from the Brine Line poses no health risk but, if left untreated, could damage the local environment.

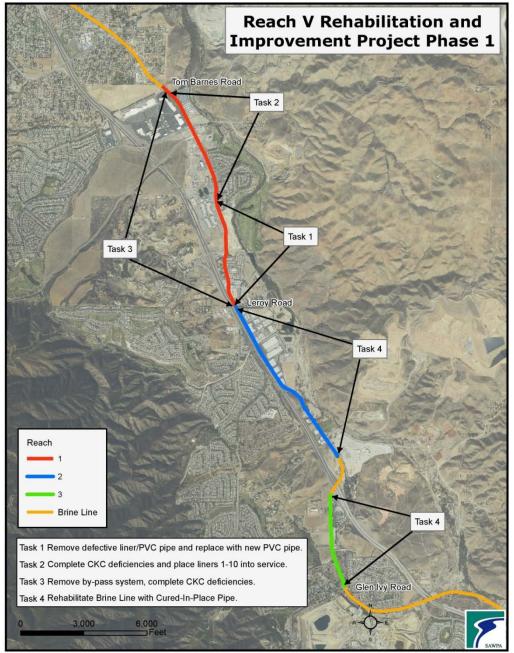


Santa Ana Watershed Project Authority Inland Empire Brine Line 11615 Sterling Avenue Riverside, CA 92503 Tell us what you think.
Hotline: 951.354.4250
Email: construction@sawpa.org
For updates: www.sawpa.org/brineline

# Questions?







### Task 4

- Project Description
  - Clean, CCTV, Laser Profile 12,800 ft
  - Repair upto 12, 800 ft of PVC pipe
  - 9 New MAS structures
  - 9 New Avs, and 9 New Blow-offs



## Forest First MOU

Commission Workshop Feb 7, 2017





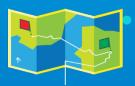
## Critical Success Factors



SAWPA has a strong reputation as a watershed-wide, knowledgeable, neutral and trusted facilitator, leader, and administrator of contracted activities.



Goals, scope, costs, resources, timelines, and the contract term are approved by the Commission before executing an agreement to participate in a roundtable group.



Clear upfront criteria and terms for completing or transitioning efforts that have been successfully established or completed.



Report and use results of roundtable's work, leverage information and involvement for the benefit of SAWPA, its members, and other stakeholders.



Adequate professional staff and resources to effectively provide facilitation, management, administrative and technical support to collaborative work efforts.





# Background

- Approx. 30% of watershed managed by Forest Service
- Estimated that 90% of the annual precipitation falls on headwaters







# 2011 & 2017 MOU Comparison

- Five Year Terms
- Similar Provisions on planning and coordination
- Both Cleveland and San Bernardino Forests
- 2011 MOU expired Dec 2016
- 2017 MOU would expire Jan
   2022







# Actions Under 2011 MOU









- Valuation of Benefits of Forest Management Practices in the Santa Ana Watershed (2012);
- San Bernardino Forest's success in acquiring a \$1M Prop 84 Round 2 grant (2014);
- Acquiring the assistance of UC Irvine researcher Dr.
   Michael Goulden to evaluate the water supply benefit of Round 2 Project(2014);
- Coordinating with the San Bernardino Forest and the US Department of Agriculture to demonstrate the on-site conversion of woody debris to biomass (2015).





## Benefits of MOU

- Brings water agencies to the table with Forest land managers who manage 30% of the watershed.
- Can facilitate projects that assist water agencies and flood control agencies in meeting their missions.
- Allows the Forests to apply for grant funding.
- Serves as an umbrella agreement giving not just SAWPA but the SAWPA member agencies an ability to partner with the National Forests.





## Actions for 2017 MOU

- Possible tasks to implement under MOU:
  - Invasive plant removal including tamarisk and grape (projects ongoing);
  - North Main Divide Fuels Reduction Project (currently implemented);
  - Water quality monitoring on water bodies listed by the Regional Board for impairments (ongoing);
  - Partnership studies and removal programs for the Shot Hole Borer invasive beetle (studies ongoing; removal programs to be determined);
  - Public-private funded forest management projects with downstream utilities funding forest management after downstream benefits are realized through monitoring (timeline to be determined);
  - OWOW Round 2 project and the related downstream water benefits analysis (2017-18);





## Recommendation

It is recommended that the Commission authorize the General Manager to enter into a MOU with the Forest Service to plan and develop projects within the Santa Ana River Watershed.







SAWPA