

# Industrial Sewer Facilities Management Tools Using ArcGIS Flex API

Santa Ana Watershed Project Authority  
(SAWPA)

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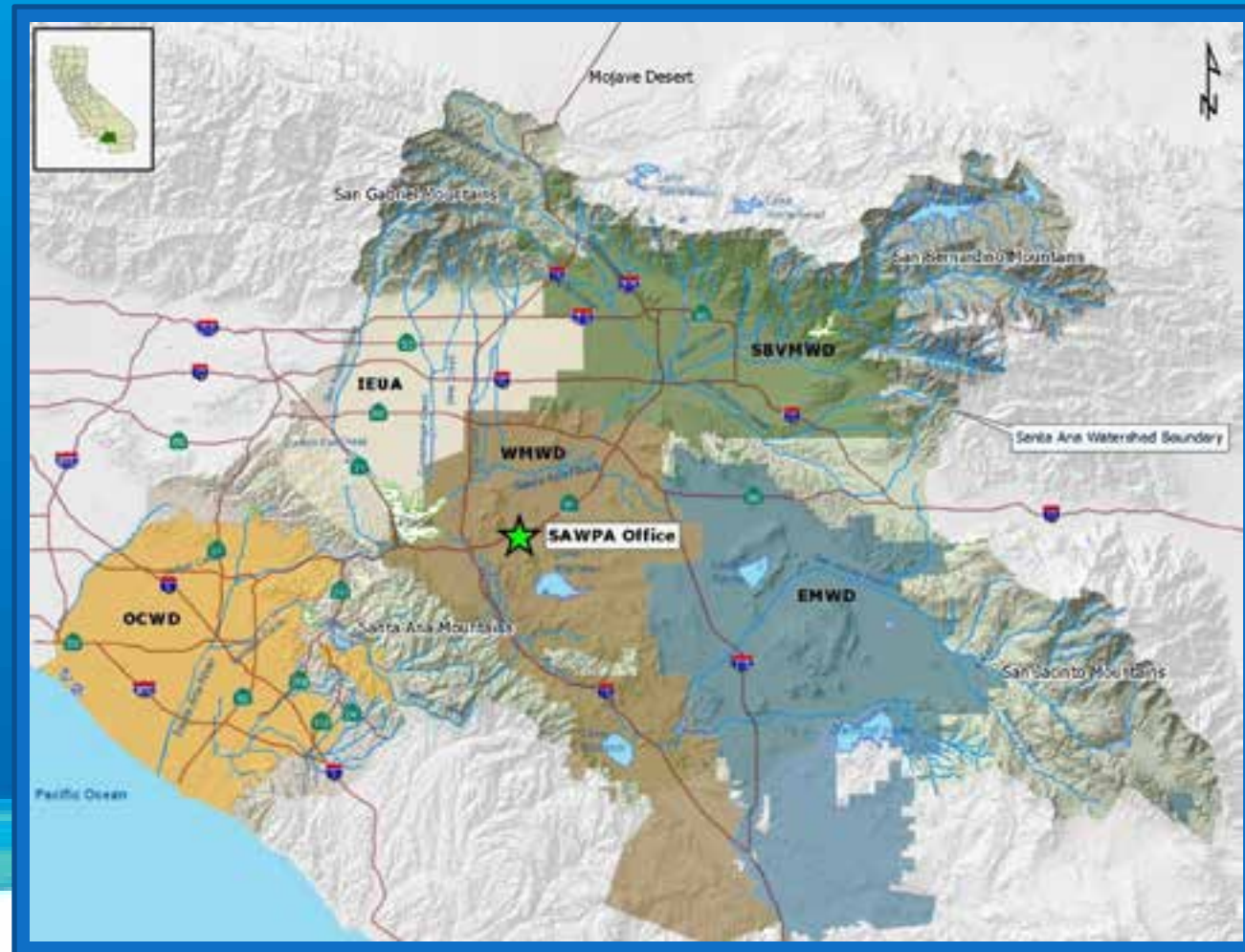


# SAWPA Background



## Regional Water Agency in Santa Ana Watershed

5 Members  
25 Employees  
3 Field Staff



# SAWPA Functions

## Regional Watershed Wide Issues:



### Planning/Collaboration

Water Quality

Water Resources

Environmental

Grants for water projects

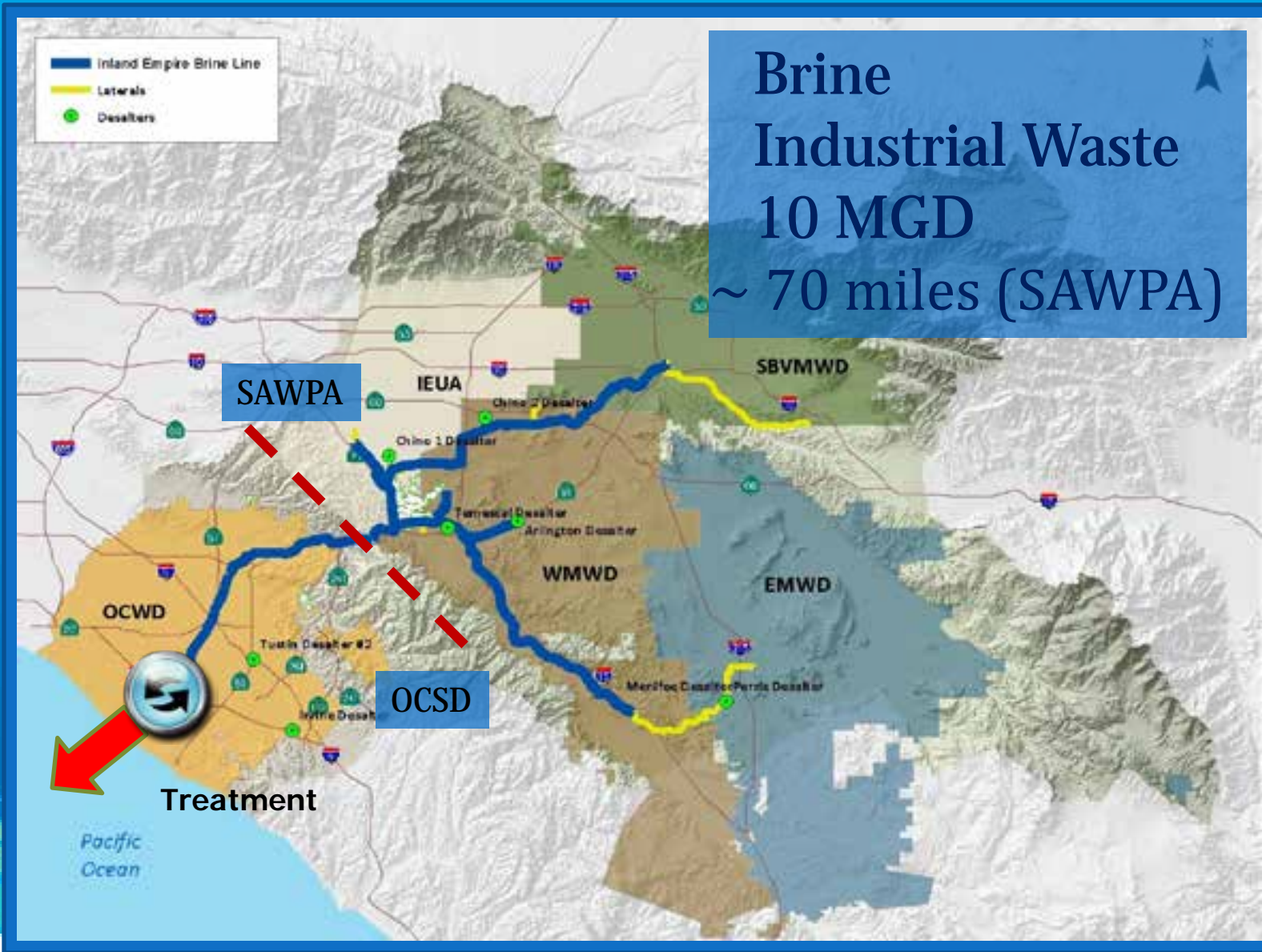


### Engineering

**Brine Line/Industrial Sewer**



# Inland Empire Brine Line



# Brine Line Mapping Tools



Record Drawings  
Land Use/Zoning  
Service Area  
Dig Alert  
Facility Inspections  
Facility Maintenance



Brine Line Mapping Tools

Tools

- Record Drawings
- Land Use
- Service Area
- Dig Alert
- HAS/Wash Inspections
- Service Request
- Air Val. Valves
- Sealed HAS
- Blank Off Valves

Dig Alert Tool

Mark Tickets

Map

Map Tools

Search Parameters

Search Results

Prod. #	Type	Ticket	Location	Priority	OP #	Start Date	Work Date
NEW	AGW	A483010	PER AVE	CLARKS CONCRETE WORK	2	01/25/14	01/27/14
NEW	AGW	A483010	PER AVE	TA BUCKY CONCRETE WORK	1	01/25/14	01/27/14
NEW	NEW	A483010	UNCLD AVE	VAL PRO SBS LLC	2	01/27/14	01/31/14
NEW	AGW	A483010	LAMBERT DR	WASH BOX SBS LLC	2	01/25/14	01/26/14
NEW	AGW	A483010	UNCLD AVE	SALPAC SBS LLC	1	01/25/14	01/26/14
NEW	AGW	A483010	PER AVE	WASH SBS	1	01/25/14	01/31/14

Show Tickets on Map Clear Tickets from Map

# Software/Development

- ✓ Flex API – UI and GIS
- ✓ SQL Server - Database
- ✓ C#, Fluorine Fx - Flex/DB communication
- ✓ Email2DB – parse emails (Dig Alert)

➔ Development started 2011

# Demo

**Brine Line Mapping Tools** Log Out   Logged in as Test

**Tools**

- Record Drawings
- LandUse
- Service Area
- Dig Alert
- MAS/Reach Inspections
- Service Request
- Air Vac Valves
- Sealed MAS
- Blow Off Valves

**Dig Alert Tool**

Mark Tickets              Streets   Imagery   USGS

**UnMarked Dig Alert Tickets**

Search Parameters

Search Results

Priority	Type	Ticket	Location	Company	DT W	Date Recd	Work Date
NORM	NEW	A40230787	PINE AVE	OLTMANS CONSTRUCTION	-2	01/23/14 12:40 PM	01/27/14 1:00 PM
NORM	NEW	A40230792	PINE AVE	OLTMANS CONSTRUCTION	-2	01/23/14 12:42 PM	01/27/14 1:00 PM
NORM	NEW	A40230789	EUKLID AVE	CAL PAC DRILLING	2	01/27/14 10:50 AM	01/31/14 7:00 AM
NORM	NEW	A40230791	FAIRWAY DR	HIGHLINE ELECTRIC	0	01/28/14 12:57 PM	02/06/14 1:00 PM
RENO	RENO	A40231238	EUKLID AVE	CALPAC DRILLING	-1	01/28/14 3:29 PM	01/28/14 3:35 PM
NORM	NEW	A40230723	BELLEGRAVE...	POWER PLUS	2	01/29/14 7:53 AM	01/31/14 7:53 AM



# Conclusion



## Successful

99%+ up time

Marked ~ 9,000 Dig Alert tickets

Hundreds of Inspections



ESRI Training valuable



Flex API Website very helpful



Future migration to Javascript

