## Salt & Nutrient Management Plan Development Upper Los Angeles River Area (ULARA)

Presented to the

Regional Water Quality Control Board – LAR

December 4, 2014, Culver City, CA

Presented By:

Richard Slade - ULARA Watermaster
Anthony Hicke – Assistant ULARA Watermaster



# What and Where is ULARA?

Presented By
Richard C. Slade
ULARA Watermaster



## Definition: Upper Los Angeles River Area (ULARA)

- An area created by adjudication in the case of City of Los Angeles vs. City of San Fernando, et al.
- Key results of Court Judgment dated January 1979
- Defined the watershed boundaries
- Identified 4 Groundwater Basins within ULARA
- Established Parties to the Judgment
- Established pumping rights for those Parties
- Created a Court-appointed Watermaster.



#### **ULARA Parties**

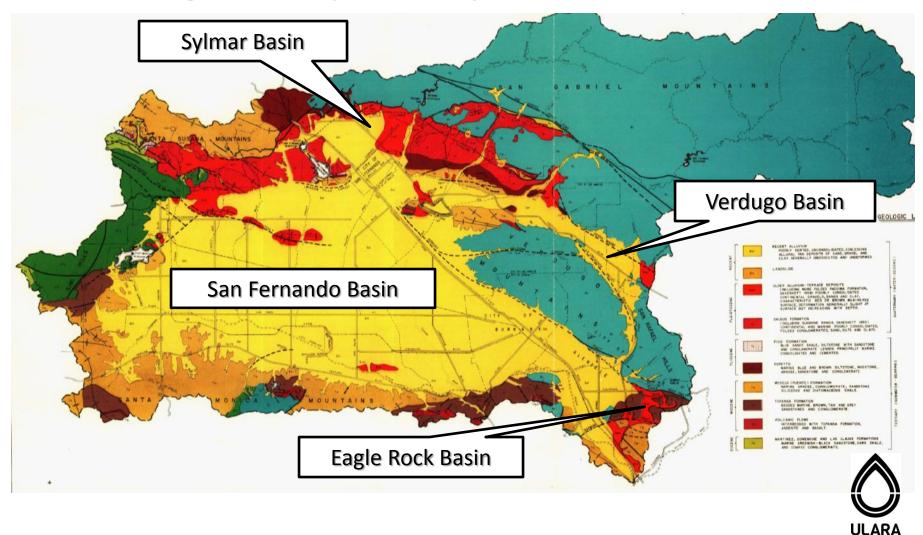
- Principal Parties to the Judgment
  - City of Burbank, pumping from San Fernando Basin only
  - City of Glendale, SFB and Verdugo Basin
  - City of Los Angeles, SFB and Sylmar Basin
  - City of San Fernando, SB only
  - Crescenta Valley Water District, VB only



#### **ULARA Boundaries and Groundwater Basins**



#### Geologic Map – Report of Referee



## SNMP Plan Development

**Presented By** 

**Anthony Hicke** 

**Assistant ULARA Watermaster** 

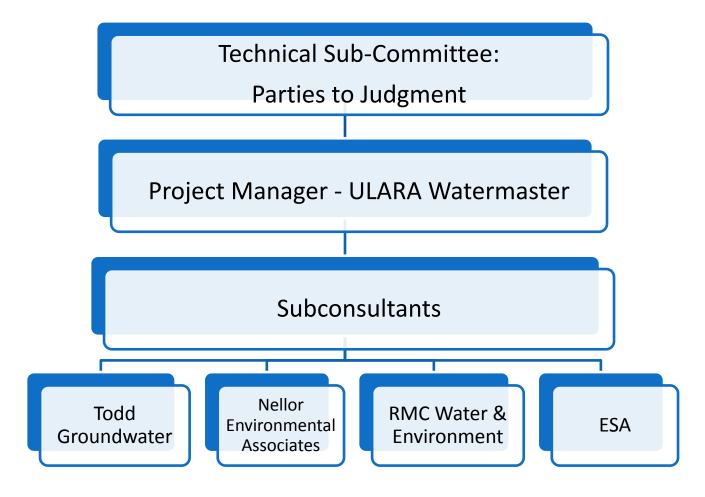


#### **SNMP Overview**

- Technical Team Members
- SNMP Development Process
- Conceptual Flow Model
- Basic Plan Elements
- Current Work Status
- Contact Information



#### **ULARA SNMP Technical Team**





#### **ULARA SNMP Process**

#### Data Collection

- Watermaster
- Parties
- Key Stakeholders
- Regulators



#### Data Analysis & Tech Memos

- Tech Sub Committee (Parties)
- Docs for review at various points in the process



#### Review & Comment

- Regulators & Interested
   Stakeholders
- Finalize document

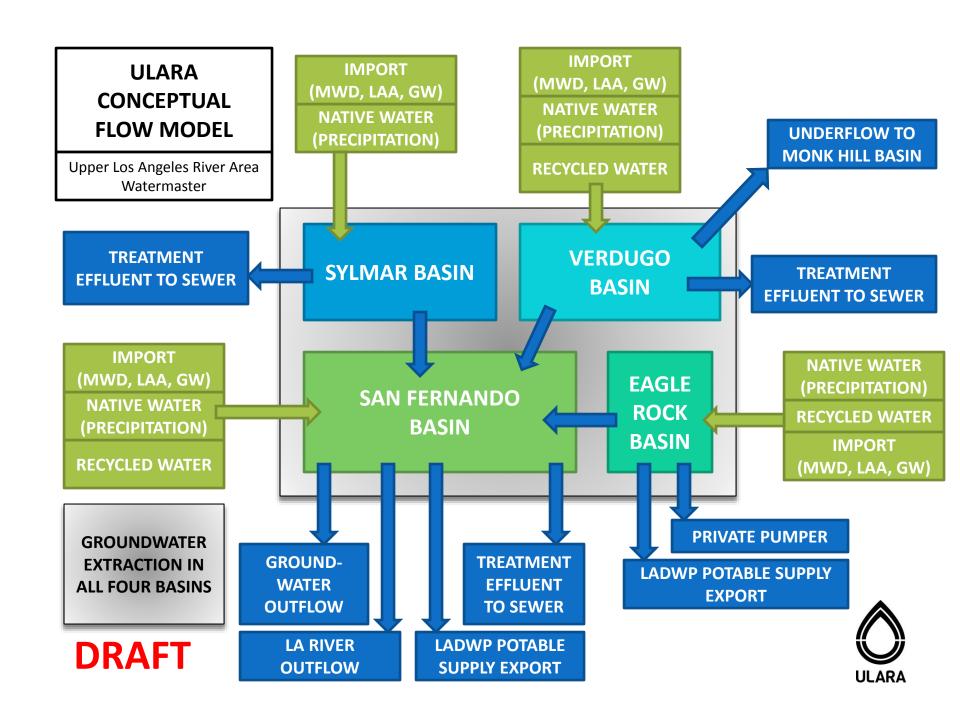


#### Public Meetings

- Held at major milestones throughout the process
- Significant docs

GOAL: To gain consensus & "buy-in" from all Parties involved at key points throughout the process





#### **ULARA SNMP**

- Identify Salt and Nutrient (S/N) Water Quality Issues
  - Define "Baseline" groundwater quality
  - Characterize quality of imported water, recycled water, stormwater, etc.
  - Define what constituents will be managed
    - Example: VOCs and chromium not a part of SNMP, only TDS, Cl, NO<sub>3</sub>
    - Handled by other agencies (EPA, DTSC, RWQCB, etc.)
- Estimate changes in S/N concentrations in the groundwater basins (GWB) due to current practices and projects
- Define management goals vs. monitoring goals
  - Create a Monitoring and Management Plan for S/N in GWBs
  - Create a Monitoring Plan for CECs in GWBs



#### **ULARA SNMP**

- Estimate changes in S/N concentrations in the GWBs due to planned/future practices and projects
  - LADWP's proposed San Fernando Valley Groundwater Remediation facilities
  - City of Los Angeles Groundwater Replenishment Project
  - Various stormwater infiltration projects, LID projects, etc.
  - Plans for increased recycled water use for irrigation



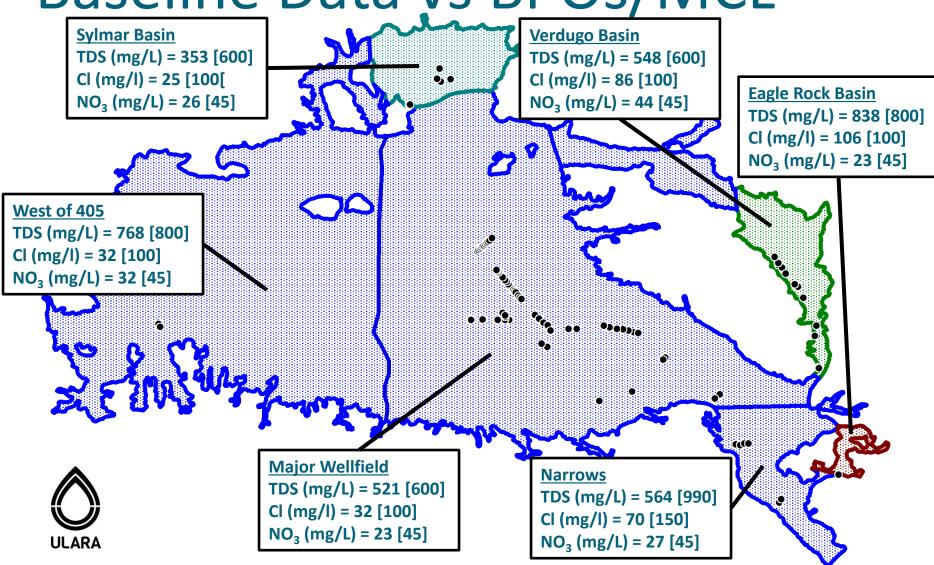
## Baseline Data vs BPOs/MCL

- Reviewed available data (2002-2012)- median values
  - TDS, Chloride, Nitrate
  - Each Constituent By Basin (& Management Area)

		TDS	Chloride	Nitrate (NO3)
Basin / Management Areas		(mg/L) [BPO]	(mg/L) [BPO]	(mg/L) [MCL]
Sylmar Basin		353 [600]	25 [100]	26 [45]
Verdugo Basin		548 [600]	86 [100]	44 [45]
Eagle Rock Basin		838 [800]	106 [100]	23 [45]
San Fernando Basin	West of 405	768 [800]	32 [100]	32 [45]
	Sunland- Tujunga	N/A [400]	N/A [50]	N/A [45]
	Foothill	N/A [400]	N/A [50]	N/A [45]
	Major Wellfield	521 [600]	32 [100]	23 [45]
	Narrows	564 [900]	70 [150]	27 [45]



### Baseline Data vs BPOs/MCL



#### **Next Steps**

- Spreadsheet mixing model to begin in Early 2015
- Ongoing identification of projects/activities that affect salt and/or nutrient loading in the basins
  - Existing, Planned, Conceptual
- Public meetings following major milestones
- Continue to include LARWQCB in our SNMP development meetings (next meeting in January 2015)



#### **Contact Information**

Anthony Hicke & Richard Slade

Slade@ULARAwatermaster.com

Hicke@ULARAwatermaster.com

SNMP@ULARAwatermaster.com

http://www.ULARAwatermaster.com

http://www.ULARAwatermaster.com/SNMP

