ULARA

UPPER LOS ANGELES RIVER AREA WATERMASTER

Richard C. Slade - Watermaster

ularawatermaster.com

14051 Burbank Blvd, Suite 300
Sherman Oaks, CA 91401

818-506-0418 PHONE
818-506-1343 FAX

CEQA Scoping Meeting
Salt & Nutrient Management Plan (SNMP) Development for Upper Los Angeles River Area (ULARA) Groundwater Basins

Date: October 17, 2017. 1:00PM to 3:00PM
Location: LADWP Valley Center
14401 Saticoy Street – Bldg 7, 2nd Floor, Van Nuys, 91405

AGENDA

Item	Lead	Approximate Start Time	Approximate Duration
Introduction and Opening Remarks	Anthony Hicke Assistant Watermaster	1:00 PM	5 minutes
CEQA Background	Dr. Ginachi Amah Regional Water Quality Control Board – Los Angeles Region	1:05 PM	10 minutes
Overview of the ULARA SNMP	Anthony Hicke Assistant Watermaster	1:15 PM	15 minutes
CEQA Checklist	Jennifer Jacobus, PhD ESA	1:30 PM	60 minutes
Comments/Questions	Jennifer Jacobus, PhD ESA	2:30 PM	30 minutes

REMOTE ACCESS INSTRUCTIONS:
Screen Sharing Session: https://join.freeconferencecall.com/anthony_hicke
Conference Line: (605) 472-5645, Access Code 894893

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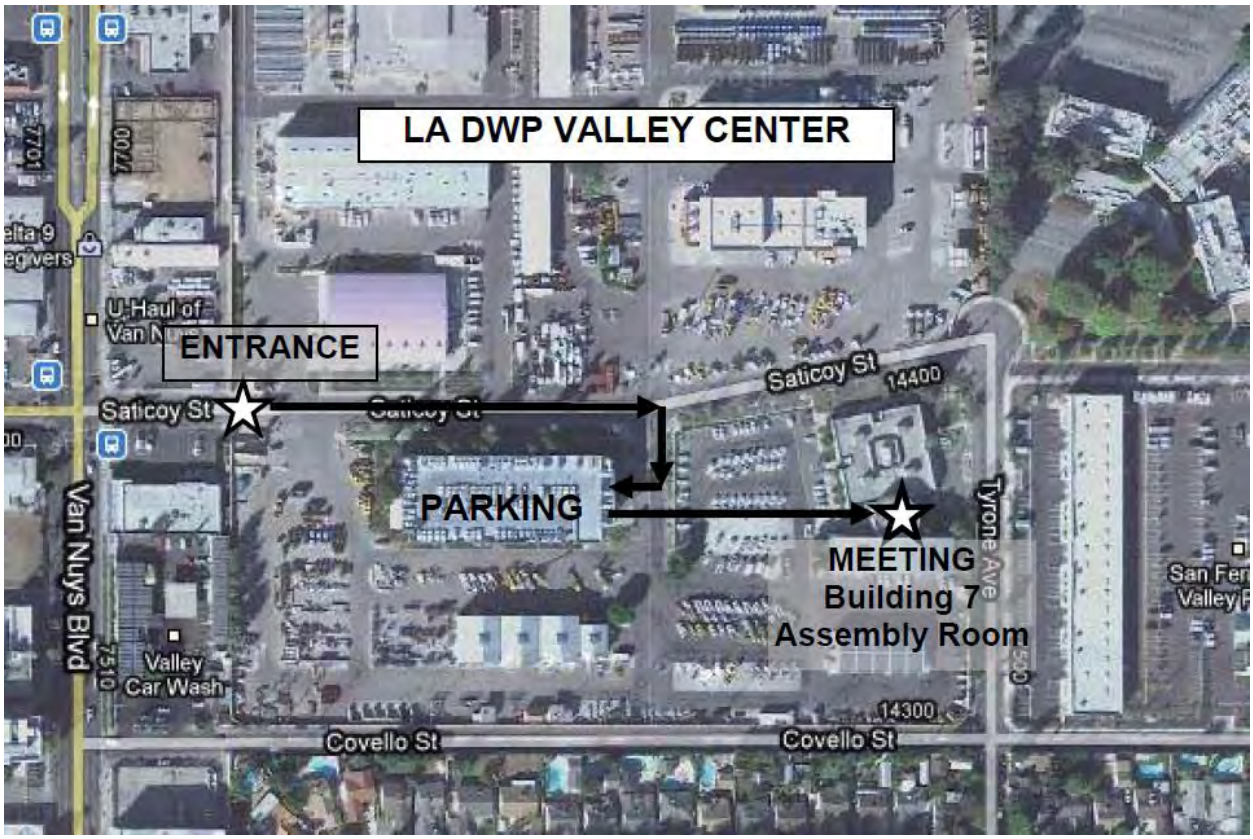
Meeting Location Map

LADWP Valley Center
14401 Saticoy Street
Los Angeles, CA 91405
Bldg 7 – 2nd Floor Assembly Room (upstairs)

NOTE: Online mapping services may direct you to the incorrect facility gate. The entrance to the meeting site at the LADWP Valley Center is on Saticoy St east of Van Nuys Blvd, as shown on the map below:



Upon arrival at the site, please check in with Security. Parking will be provided in the Parking Structure shown in the map above. Please park on Levels 2 through 4 of the Parking Structure.

Salt & Nutrient Management Plan
CEQA Scoping Meeting
Upper Los Angeles River Area (ULARA)

Presented by:
Los Angeles Regional Water Quality Control Board
in conjunction with the
ULARA Watermaster,
Basin Stakeholders and
ESA | Environmental Science Associates

October 17, 2017

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Purpose and Agenda

- **Meeting Purpose**
  - Solicit Comments on Scope and Content of Environmental Analysis
    - Ideas and Comments will Contribute to the Completeness and Relevance of Analysis
- **Meeting Agenda**
  - Background on the Salt and Nutrient Management Plan (SNMP) Requirement (*RB Staff*)
  - CEQA -Regulatory Background (*RB Staff*)
  - San Fernando Valley (ULARA)Basins SNMP & Management Alternatives (*ULARA Basin Stakeholders*)
  - CEQA Checklist (ULARA *Basin Stakeholders*)
  - Q&A Session

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Background:
The Recycled Water Policy

- Adopted February 2009 (amended 2013)
- Supports Strategic Plan Priority to promote sustainable local water supply
  - Optimize recycled water use
  - Ensure long term beneficial use of water
    - Recognize potential impact on groundwater resources
    - Protect basin water quality
- Requires development of Salt and Nutrient Management Plans (SNMPs)

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Background:
SNMP Stakeholder Process

- **Collaborative process**
  - Local water and wastewater entities
  - Local salt/nutrient contributing stakeholders
  - Open to all stakeholders
- **Locally driven and controlled**
- **Stakeholder funded**
- **Regional Board Participation**

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Background:
SNMP Requirements

- **SNMPs for every basin/sub-basin in the state**
  - Consistent scope, detail dependent on site-specific factors
  - May address constituents other than salts and nutrients
  - Should include Stormwater Recharge/Reuse component
  - Implementation plans to be adopted by Regional Water Boards as Basin Plan Amendments.
  - **Compliance with CEQA**

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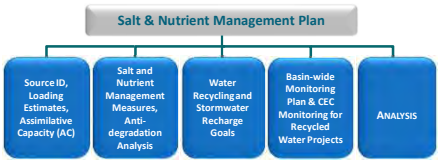
Elements of a SNMP



Management Measures are the Focus of the CEQA Analysis

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What is CEQA?

- **CEQA**: **C**alifornia **E**nvironmental **Q**uality **A**ct
  - Provides opportunity for public participation in environmental decision-making
  - Considers potential environmental impacts of a project, and
  - Requires mitigation of adverse impacts, whenever feasible

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CEQA -Regulatory Background

- **(Public Resources Code §21083.9)**.

  [A] lead agency shall call at least one scoping meeting for [a] project of statewide, regional, or area-wide significance

- **(14 CCR §15251(g))**.

  State and Regional Boards' basin planning process has been certified by the Secretary of Resources as exempt from certain requirements of the California Environmental Quality Act (CEQA), including preparation of an initial study, negative declaration, and environmental impact report

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CEQA -Regulatory Background-2

(23 CCR §3777 (a))

Any water quality control plan, … proposed for board approval or adoption must include or be accompanied by Substitute Environmental Documentation (SED)

Written report including a description of the proposed activity

- Alternatives analysis
- Identification of mitigation measures
- Environmental checklist

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Potential Environmental Impacts

- **Evaluate General Areas of Potential Impacts**
- **Four (4) Categories of Impacts**
  - Potentially Significant Impact
  - Less than Significant Impact with Mitigation Incorporated
  - Less than Significant
  - No Impact

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ULARA SNMP Overview

Anthony Hicke
Assistant Watermaster

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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.
- Boundaries of ULARA Court Judgment differ slightly from those by DWR Bulletin 118

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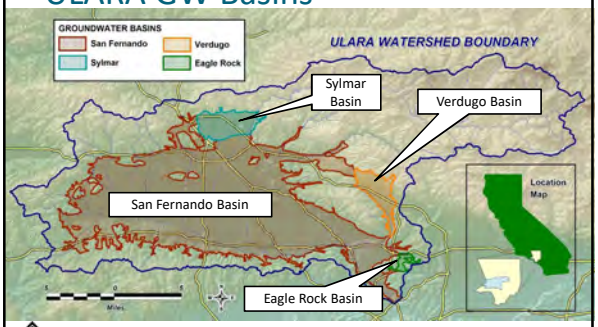
ULARA GW Basins



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Cities within ULARA

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Technical Memoranda (TM's)

- TM-1 - Introduction to the ULARA Groundwater Basins
- TM-2 - Background Data
- TM-3 - Goals and Objectives
- TM-4 - Management Measures
- TM-5 - Water-Quality Modeling

Each of these TM's are available for download from the ULARA Watermaster website at www.ULARAwatermaster.com/SNMP.

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Basin Plan Objectives

- RWQCB-LA, 1995, "Basin Plan for the Coastal Watersheds of Los Angeles and Ventura Counties."

GROUNDWATER BASIN	TDS	Cl	SO_4	NO_3
Sylmar Basin	600	100	150	45
Verdugo Basin	600	100	150	
San Fernando Basin				
West of Highway	800	100	300	45
East of Highway 405 (overall)	700	100	300	
Sunland-Tujunga area	400	50	50	
Foothill area	400	50	100	
Area encompassing Rinaldi Toluca-Tujunga-Erwin-No. Hollywood-Whitnall-LA-Verdugo-Crystal Springs-Headworks-Glendale/Burbank Wellfields	600	100	250	
Narrows Area (below confluence of Verdugo Wash with the LA River)	900	150	300	
Eagle Rock Basin	800	100	150	45

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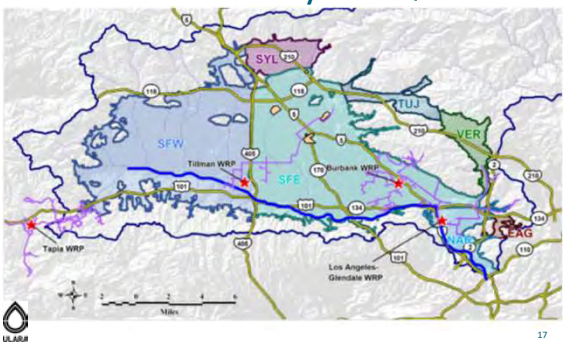
Basin Subareas by RWQCB



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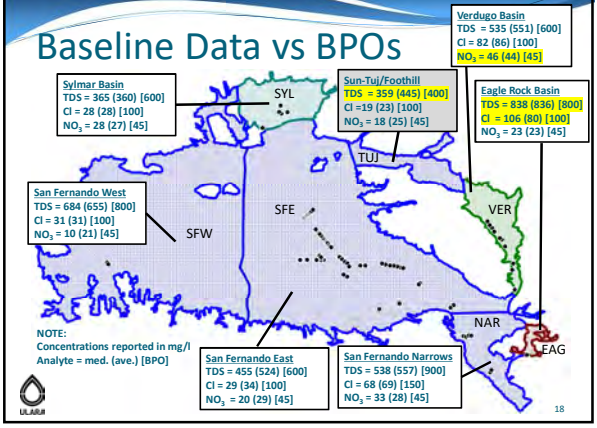
Baseline Data vs BPOs



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Management Measures

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Management Measures

- **Projects or other actions that may in some way change salt and/or nutrient conditions in the ULARA groundwater basins, whether in a positive or negative fashion.**
- Detailed Accounting in TM-4
  - Includes existing, planned, and conceptual
- Defines water quality values for various water sources used in model
- Most important measures for SNMP are recycled water and stormwater capture projects

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GLAC IRWMP and LADWP SCMP

2013 Greater Los Angeles County (GLAC) Integrated Regional Water Management Plan (IRWMP)

- Well-vetted irrigation and recharge targets
- Includes recycled water and stormwater
- Similar geographic boundaries to ULARA (covers City and non-City)

Use for SW outside City

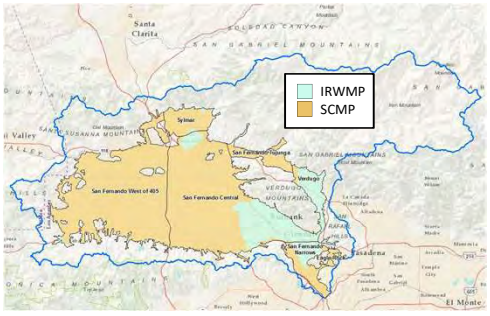
2014 Los Angeles Dept. of Water and Power (LADWP) Stormwater Capture Master Plan (SCMP)

- Updated capture and recharge projects
- Includes stormwater only
- Similar geographic boundaries (only covers City)

Use for SW inside City

21

For stormwater, the IRWMP is used outside City and the SCMP is used inside City



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Recycled Water Methodology (AFY)

Source	Basis	Subareas	2015	2020	2025
Recycled Water Direct Use	GLAC IRWMP targets Scaled to SNMP area (90%) Allocated to subareas by historical use Scaled for outdoor use (75%)	SFW	4,417	4,108	4,686
		SFE	13,054	26,980	30,773
		TUJ	137	283	322
		NAR	2,673	5,525	6,302
		SYL	201	415	473
		VER	3,226	6,667	7,605
		EAG	-	-	-
Recycled Water Recharged	LADWP projections for recharge at Hansen and Pacoima spreading grounds	SFE (high)			30,000
		SFE (low)		19,000	28,000

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Stormwater Methodology (AFY)

Source	Basis	Subareas	2015	2020	2025
Stormwater Direct Use	GLAC IRWMP targets Scaled to SNMP pop. (85%) Allocated to subareas	SFW	266	799	1,331
		SFE	424	1,272	2,120
		TUJ	20	59	99
		NAR	69	207	345
		SYL	39	118	197
		VER	30	89	148
		EAG	10	30	49
Stormwater Recharged (centralized and de-centralized)	City Areas: SCMP projections, adjusted for % urbanized per subarea and % inside City of LA Non-City Areas: GLAC IRWMP targets Scaled to SNMP area (90%) Allocated to subareas by pop. distribution	SFW	16,152	16,152	16,152
		SFE	6,606	6,044	6,022
		TUJ	1,854	1,854	1,854
		NAR	234	122	118
		SYL	1,459	1,453	1,453
		VER	289	109	101
		EAG	131	131	131

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Range or "bookend" approach for LADWP's GWR project

Hypothetical Low Loading Scenario
- TDS = 20 mg/L
- Nitrate = 5.0 mg/L
- Chloride = 3.5 mg/L
- Generates concentrate

2024: 30,000 AFY

Hansen & Pacoima Spreading Basins

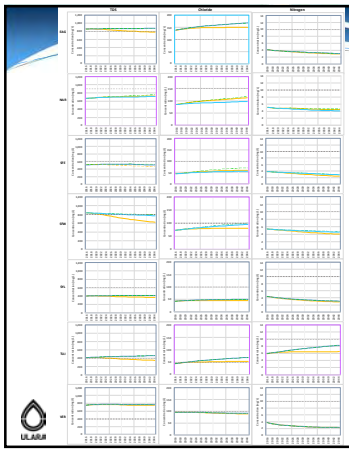
AWT

Hypothetical High Loading Scenario
- TDS = 550 mg/L
- Nitrate = 6.0 mg/L
- Chloride = 125 mg/L
- No concentrate

2017: 5,000 AFY; 2020: 15,000 AFY; 2024: 25,000 AFY; 2030: 30,000 AFY

Hansen & Pacoima Spreading Basins

tertiary



21 Constituent / Subarea Combinations

TODD GROUNDWATER

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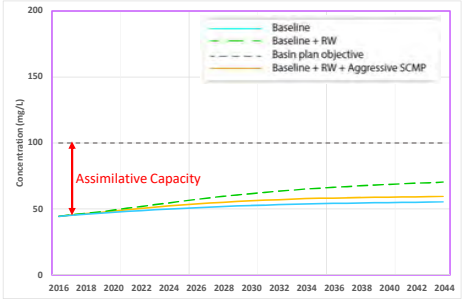
Results: SFE - Chloride



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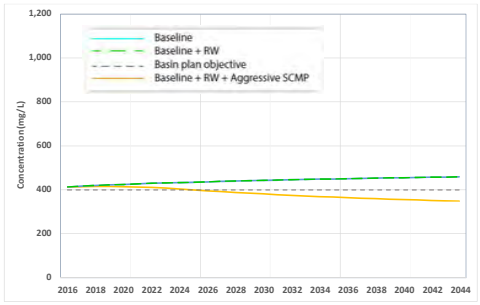
Results: TUJ - TDS



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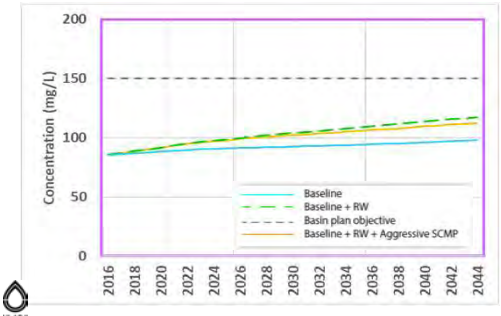
Results: NAR - Chloride



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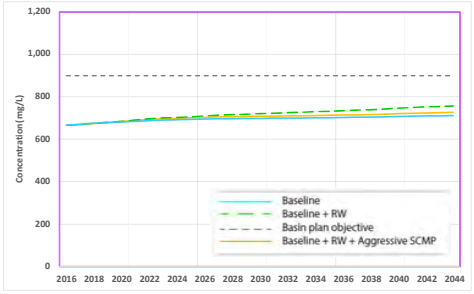
Results: NAR - TDS



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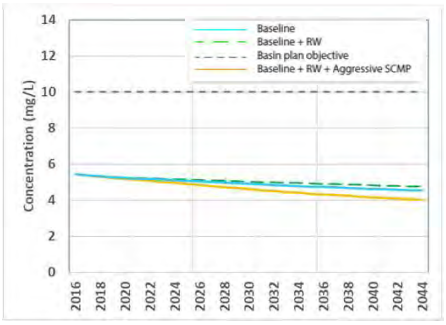
Results: SFW - Nitrogen



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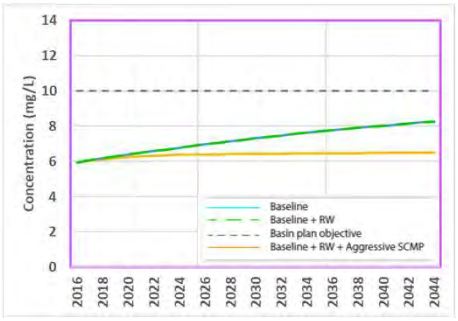
Results: TUJ - Nitrogen



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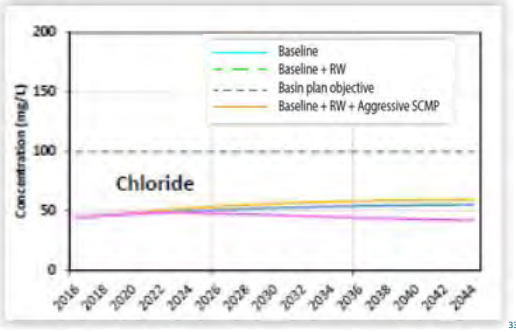
Results: SFE–Chloride with AWT Percolation



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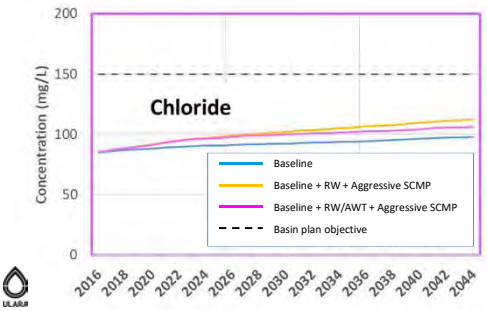
Results: NAR–Chloride with AWT Percolation



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Key Conclusions

- Recycled water use is proposed for NAR, SFE, SFW VER.
- Tertiary recycled water irrigation and percolation tend to increase TDS and chloride
- Increased stormwater percolation (centralized and dispersed) more than offsets the recycled water impact in most cases
- Concentration trends in 2044 are level or declining (except in NAR)
  - Other regional efforts will likely reduce those trends

TODD GROUNDWATER

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Future Monitoring

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Monitoring

- Parties to Judgment have committed to annual monitoring for TD, Cl, NO_3
  - Some sampling more frequent due to other regulations, treatment process, etc
- Data will be compiled by subarea annually, and median average will be calculated
- Published in the Annual Pumping and Spreading Plan for ULARA

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Environmental CEQA Checklist

Jennifer Jacobus, PhD
ESA | Environmental Science Associates

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ESA

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Environmental CEQA Checklist

- Aesthetics
- Agricultural Forest and Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Geology & Soils
- Greenhouse Gas Emissions & Energy
- Hazards & Hazardous Materials
- Hydrology & Water Quality
- Land Use & Planning
- Mineral Resources
- Noise
- Population & Housing
- Public Services
- Recreation
- Transportation/Traffic
- Tribal Cultural Resources
- Utilities & Service Systems

ESA

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Potential Environmental Impacts

Aesthetics

Would the proposed project result in:

- Obstruction of scenic vista visible to the public
- Damage to scenic resources visible from scenic highways
- Degradation of local visual character at project sites
- Production of new light and glare sources

ESA 40

Potential Environmental Impacts

Agricultural and Forest Resources

Would the proposed project result in:

- Impacts to farmland or conversion of farmland to non-agricultural use
- Impacts to forest land or conversion of forest land to non-forest use
- Conflicts with existing zoning for farmland or forest land

ESA 41

Potential Environmental Impacts

Air Quality

Would the proposed project result in:

- Air emissions that violate air quality standards
- Exposure of sensitive receptors to substantial air pollutant concentrations
- Creation of objectionable odor

ESA 42

Potential Environmental Impacts

Biological Resources

Would the proposed project result in:

- Impacts to unique, rare or endangered plant or animal species or their habitat
- Impacts to riparian habitat or other sensitive natural communities
- Impacts to federally protected wetlands
- Interference with movement/migration of native fish or wildlife species
- Conflict with local policies, ordinances, or applicable habitat conservation plan

ULAULA ESA 43

Potential Environmental Impacts

Cultural Resources

Would the proposed project result in:

- Alteration of a significant historical, archaeological or paleontological resource

ULAULA ESA 44

Potential Environmental Impacts

Geology and Soils

Would the proposed project result in:

- Damage to structures or injury to people due to rupture of an earthquake fault or seismic groundshaking
- Soil erosion or loss of top soil
- Locating a project on unstable soils or expansive soils where lateral spreading, subsidence, liquefaction, or landslide may occur

ULAULA ESA 45

Potential Environmental Impacts

Greenhouse Gas Emissions and Energy

Would the proposed project result in:

- Generation of greenhouse gas emissions directly or indirectly that cause significant impact
- Conflict with adopted plan or policy for the purpose of reducing greenhouse gases
- Impacts to local and regional energy supplies

ESA 46

Potential Environmental Impacts

Hazards and Hazardous Materials

Would the proposed project result in:

- Release of new hazardous substances
- Disturbance of sites with existing hazardous materials
- Safety hazards for projects near airports
- Interference with emergency response plans
- Wildland fires

ESA 47

Potential Environmental Impacts

Hydrology and Water Quality

Would the proposed project result in:

- Water quality degradation
- Violation of water quality standards
- Change in quantity or quality of groundwater
- Changes in drainage patterns resulting in erosion, siltation, or flooding
- Excessive stormwater runoff or polluted runoff
- New structures that impede or redirect flood flow
- Expose people or structures to risks due to flooding

ESA 48

Potential Environmental Impacts

Land Use and Planning

Would the proposed project:

- Conflict with land use plans, policies, or regulations
- Physically divide a community

Potential Environmental Impacts

Mineral Resources

Would the proposed project result in:

- Loss of availability of known mineral resources that are
  - Valuable to residents of the State
  - Locally available and delineated in a land use plan

Potential Environmental Impacts

Noise

Would the proposed project result in:

- Temporary or permanent increases in ambient noise levels
- Exposure of people to noise levels in excess of standards
- Exposure of people to excessive vibration levels

Potential Environmental Impacts

Population, Housing, and Growth

Would the proposed project result in:

- Substantial population growth either directly or indirectly
- Displace existing housing or people, resulting in the need to build replacement housing

ESA 52

Potential Environmental Impacts

Public Services

Would the proposed project have an effect upon, or result in the need for new or altered governmental services in any of the following areas:

- Fire protection
- Police protection
- Schools
- Parks or other recreation
- Other public facilities

ESA 53

Potential Environmental Impacts

Recreation

Would the proposed project result in:

- Impacts to quality or quantity of recreational facilities

ESA 54

Potential Environmental Impacts

Transportation and Traffic

Would the proposed project result in:

- Adverse effects to performance standards for local and regional roadway circulation
- Conflicts with congestion management programs
- Adverse effects to public transit, bicycle, pedestrian facilities
- Changes to air traffic patterns
- Increases in traffic hazards
- Inadequate emergency access

ESA 55

Potential Environmental Impacts

Tribal Cultural Resources

Would the proposed project cause a substantial change in the significance of a tribal cultural resource and that is:

- Listed or eligible for listing in the California Register of Historical Resources
- A resource determined to be significant pursuant to criteria set forth in Public Resources Code Section 5024(c)

ESA 56

Potential Environmental Impacts

Utilities and Service Systems

Would the proposed project result in a need for new systems, or substantial alterations to the following utilities:

- Water
- Wastewater
- Sewers or septic tanks
- Storm water drainage
- Solid waste disposal

ESA 57

Potential Environmental Impacts

Mandatory Findings of Significance

Does the proposed project have:

a. Potential to degrade the environment
b. Impacts that are individually limited but cumulatively considerable
c. Substantial adverse effects on human beings

Salt and Nutrient Management Plan CEQA Comments

- All Comments Due By: 5:00 PM, Friday, October 27, 2017
  - E-mail comments to: **Ginachi.Amah@waterboards.ca.gov**
    Please indicate "CEQA for San Fernando Valley (ULARA) Basin SNMP" as the subject
  - Mail written comments to:
    - Dr. Ginachi Amah:
      Los Angeles Regional Water Quality Control Board
      320 West 4th Street, Suite 200
      Los Angeles, CA 90013
  - Call with comments - Dr. Ginachi Amah, (213) 576-6685
  - Verbal comments have been noted during this meeting
  - Complete the provided Comment Card and hand to LARWQCB before the end of this meeting

Contact Information

Dr. Ginachi Amah
Los Angeles Regional Water Quality Control Board
Ginachi.Amah@waterboards.ca.gov
(213) 576-6685

ULARA Watermaster
SNMP@ULARAwatermaster.com
http://www.ULARAwatermaster.com/SNMP

Jennifer Jacobus, PhD
ESA | Environmental Science Associates
JJacobus@ESASSOC.COM

REMINDER: Comment period ends October 27, 2017

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COMMENT CARD

October 17, 2017 CEQA Scoping Meeting for the
Salt & Nutrient Management Plan for the San Fernando Valley Groundwater Basin
(also known as the Upper Los Angeles River Area (ULARA) Groundwater Basins)

Written comments may be submitted today during the meeting or mailed/e-mailed to the address below. Feel free to contact us at (213) 576-6685 or by e-mail if you have any questions.

The public comment period ends Friday, October 27, 2017 at 5:00 P.M.

Dr. Ginachi Amah
Los Angeles Regional Water Quality Control Board
320 West 4th Street, Suite 200, Los Angeles, CA 90013
Ginachi.Amah@waterboards.ca.gov

Name & Agency: _____

Address: _____

Phone & E-Mail: _____

I have the following comments regarding the preparation of the Substitute Environmental Document (SED) for this project:

_____

_____

_____

_____

_____

_____

Page ____ of ____ (continue comments on backside as necessary)

COMMENT CARD

October 17, 2017 CEQA Scoping Meeting for the
Salt & Nutrient Management Plan for the San Fernando Valley Groundwater Basin
(also known as the Upper Los Angeles River Area (ULARA) Groundwater Basins)

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