



Pure Water North City Phase 1 Construction Projects
Community Working Group Meeting 1 – University City

Date: June 28, 2018
Location: North City Water Reclamation Plant

Meeting Agenda

4:30	Welcome	B. Eidson
4:35	Agenda Introductions	L. Michaelson
4:50	Working Group Overview Mission and Principles of Participation	L. Michaelson
5:20	Pure Water Program North City Phase 1 Projects	B. Eidson
5:50	DINNER	
6:20	North City Projects/Alignment in University City	J. Long
6:45	Construction Topics/Contract Documents	S. McCarty
7:00	Informational Construction Topic #1 Overview: <i>Coordination Between Projects</i>	S. McCarty
7:20	Informational Construction Topic #2 Overview: <i>Street Restoration</i>	S. McCarty
7:40	Public Comment	L. Michaelson
7:55	Closing and Next Steps	L. Michaelson

Pure Water San Diego Phase 1 University City Working Group: Meeting 1

June 28, 2018

- **Provide the necessary information to allow you to gain a clear understanding of the following:**
 - *Purpose and role of the Working Group in the bid specification identification process*
 - *Context of the Pure Water Program and the Phase 1 projects*
 - *Pipeline alignment specific to your community*
 - *Construction topics that will be reviewed and/or discussed during the meetings*
- **Present on two construction topics**

- **Welcome**
- **Agenda/Introductions**
- **Working Group Overview/Mission and Principles of Participation**
- **Pure Water Program/North City Phase 1 Projects**

DINNER

- **North City Projects/Alignment in University City**
- **Construction Topics/Contract Documents**
- **Informational Construction Topic #1 Overview:**
Coordination Between Projects
- **Informational Construction Topic #2 Overview:**
Street Restoration
- **Public Comment**
- **Closing and Next Steps**

- **Introductions: Who is in the room?**
 - **Project team introductions**
 - **Working Group introductions**

Mission & Principles of Participation

- **Mission**
- **Principles of Participation**
- **Ground Rules**

■ Meeting Series Schedule

Meeting	Date and time	Location
1	Thursday, June 28 4:30 – 8 p.m.	North City Water Reclamation Plant
2	Wednesday, July 18 4:30 – 8 p.m.	North City Water Reclamation Plant
3	Thursday, Aug. 2 4:30 – 8 p.m.	North City Water Reclamation Plant
4	Tuesday, Aug. 21 4:30 – 8 p.m.	North City Water Reclamation Plant

Pure Water San Diego Program & Phase 1 Projects Overview

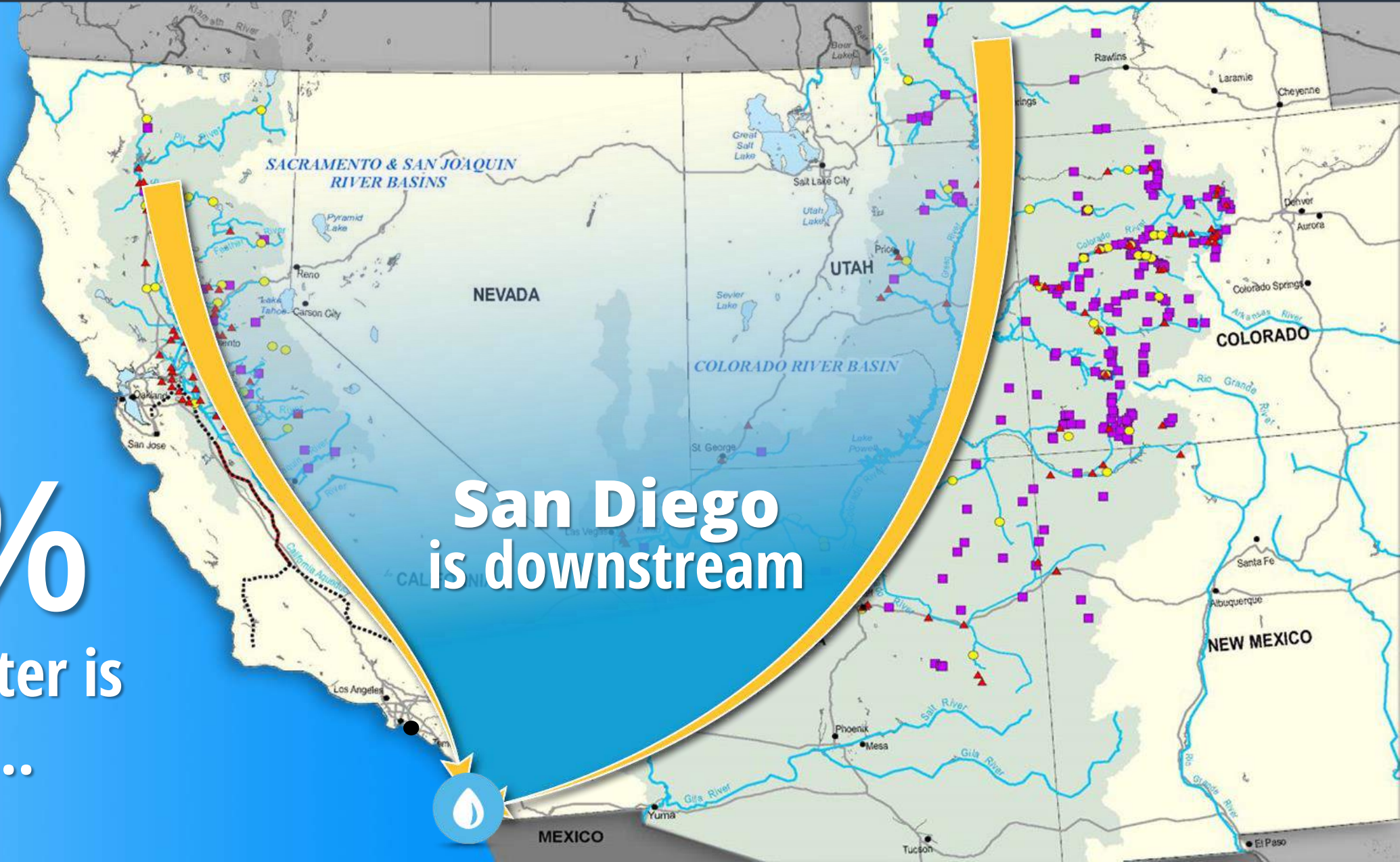
Brent Eidson



San Diego's Water Supply

85%
of our water is
imported...

**San Diego
is downstream**



We Face Numerous Water Challenges

Imported water cost per acre-foot



- Limited local & imported supplies
- Population growth
- Bay Delta constraints
- Natural disaster risk
- Rising imported water costs
- Recurring drought

SD Multi-faceted Approach

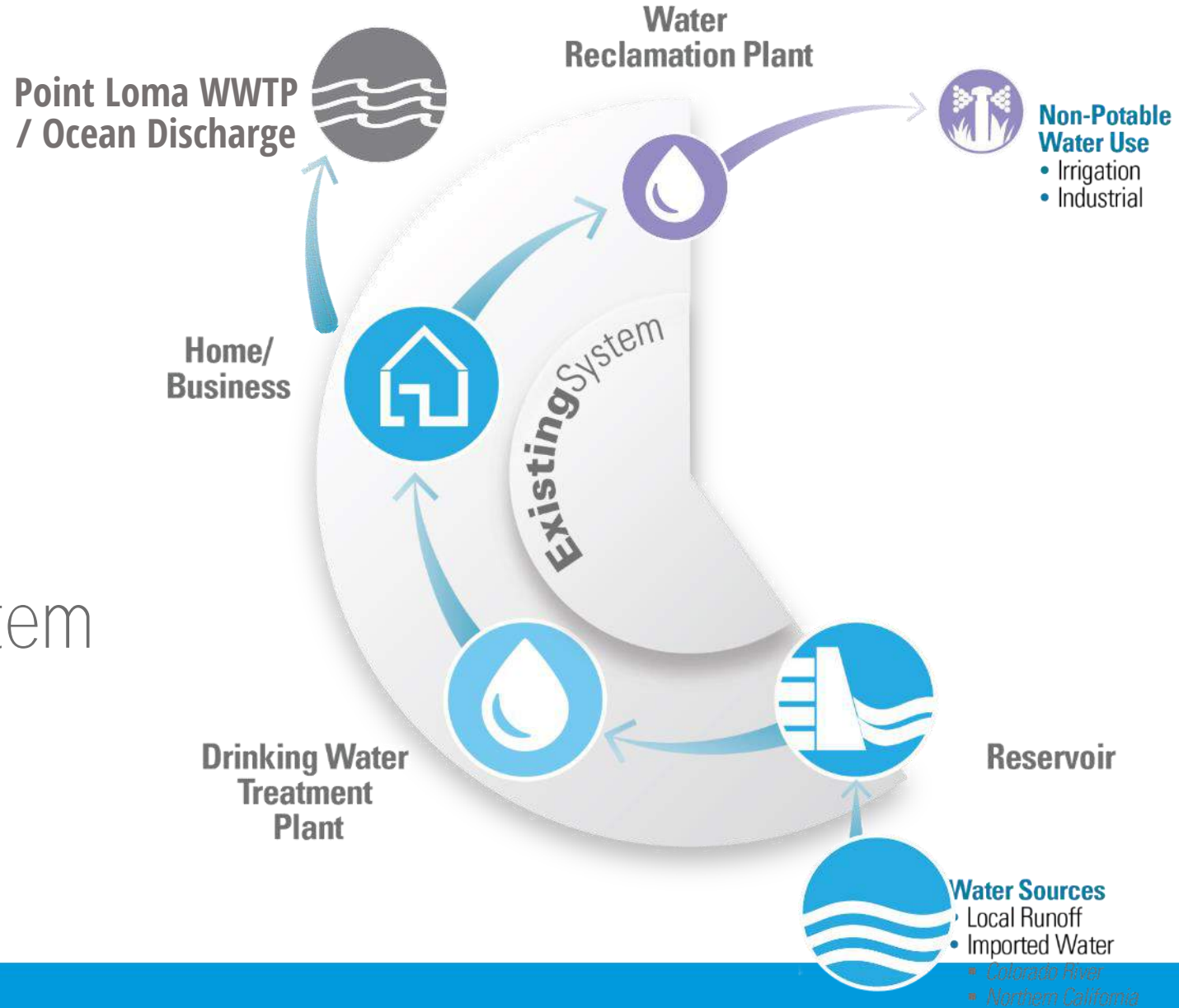


- Conservation
- Desalination
- Groundwater Development
- Recycled Water
- Pure Water Program

SD San Diego's Water Supply System

Existing System...

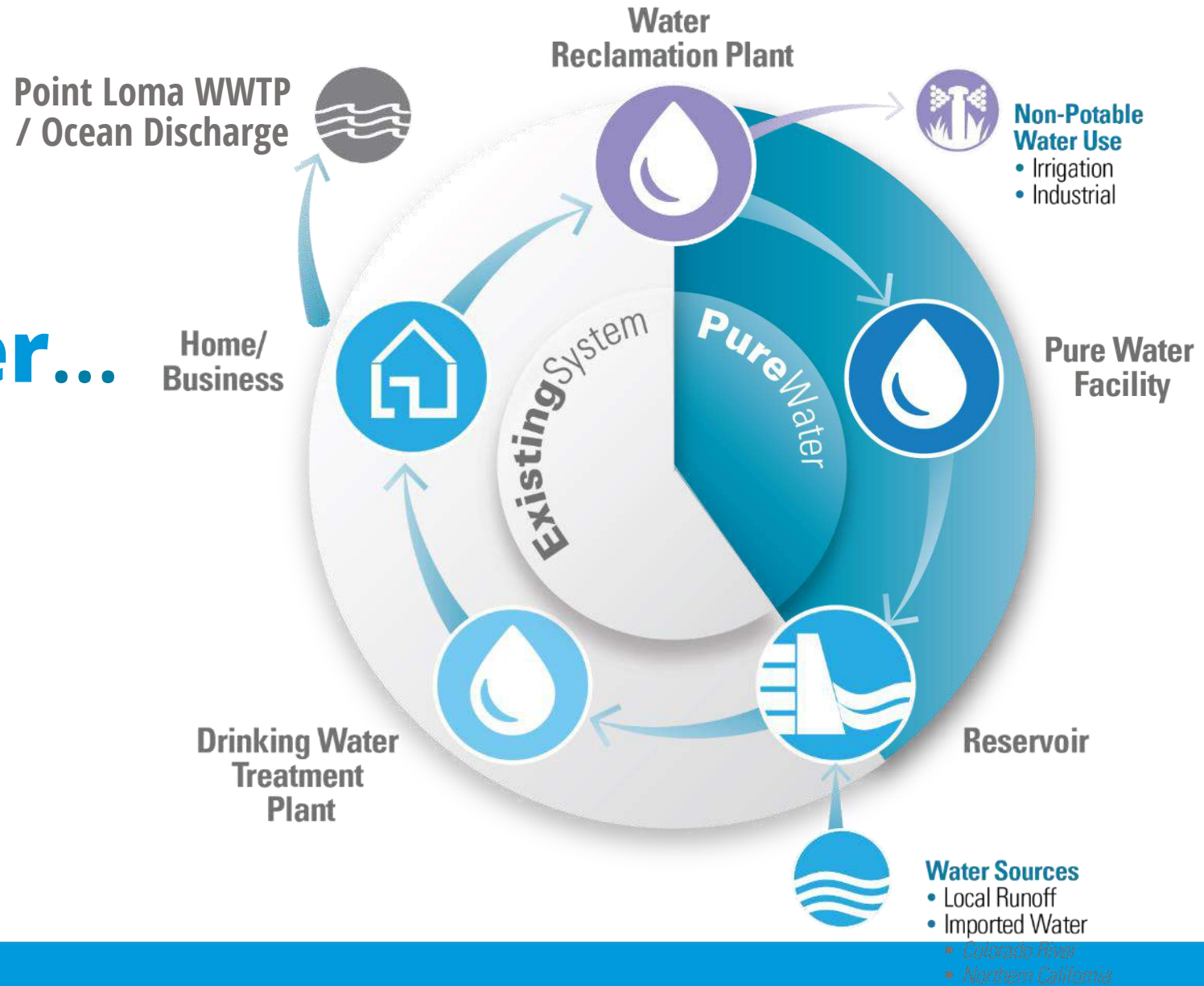
Primarily a Single-Use System



SD San Diego's Water Supply System

Pure Water...

Completes Our Water Cycle



SD Pure Water Runs a Successful Demonstration Facility



- 30,000 lab tests: **Met all standards**
- Water quality: **Exceptional**
- Energy use: **Renewable**

Pure Water
will produce

1/3

of your water
locally

Phase 1

- 2021 Completion
- 30 mgd
- North City PWF to Miramar



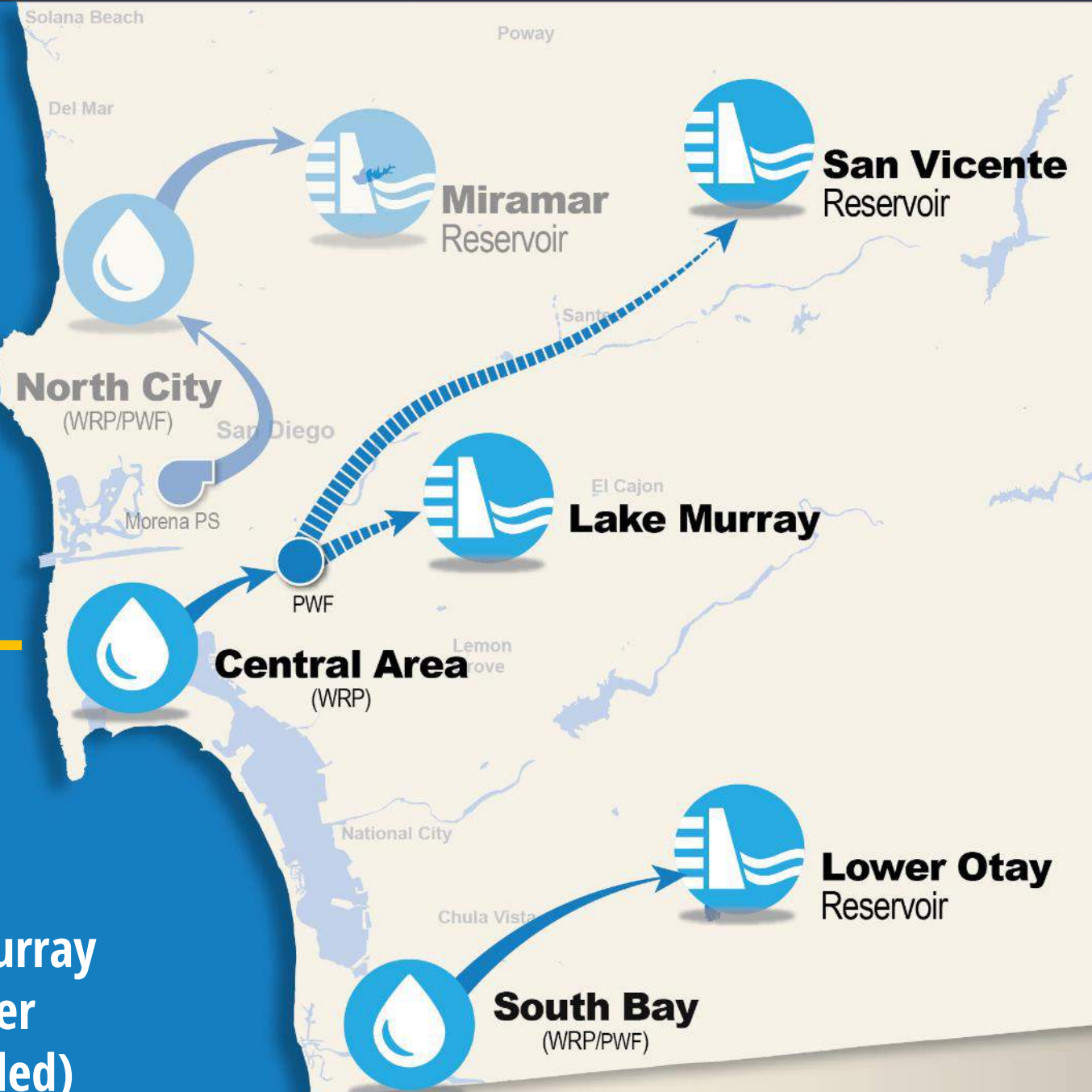
Pure Water
will produce

1/3

of your water
locally

Phases 2 & 3

- 2035 Completion
- 53 mgd
- Central Area PWF to San Vicente or Lake Murray
- South Bay PWF to Lower Otay Reservoir (if needed)

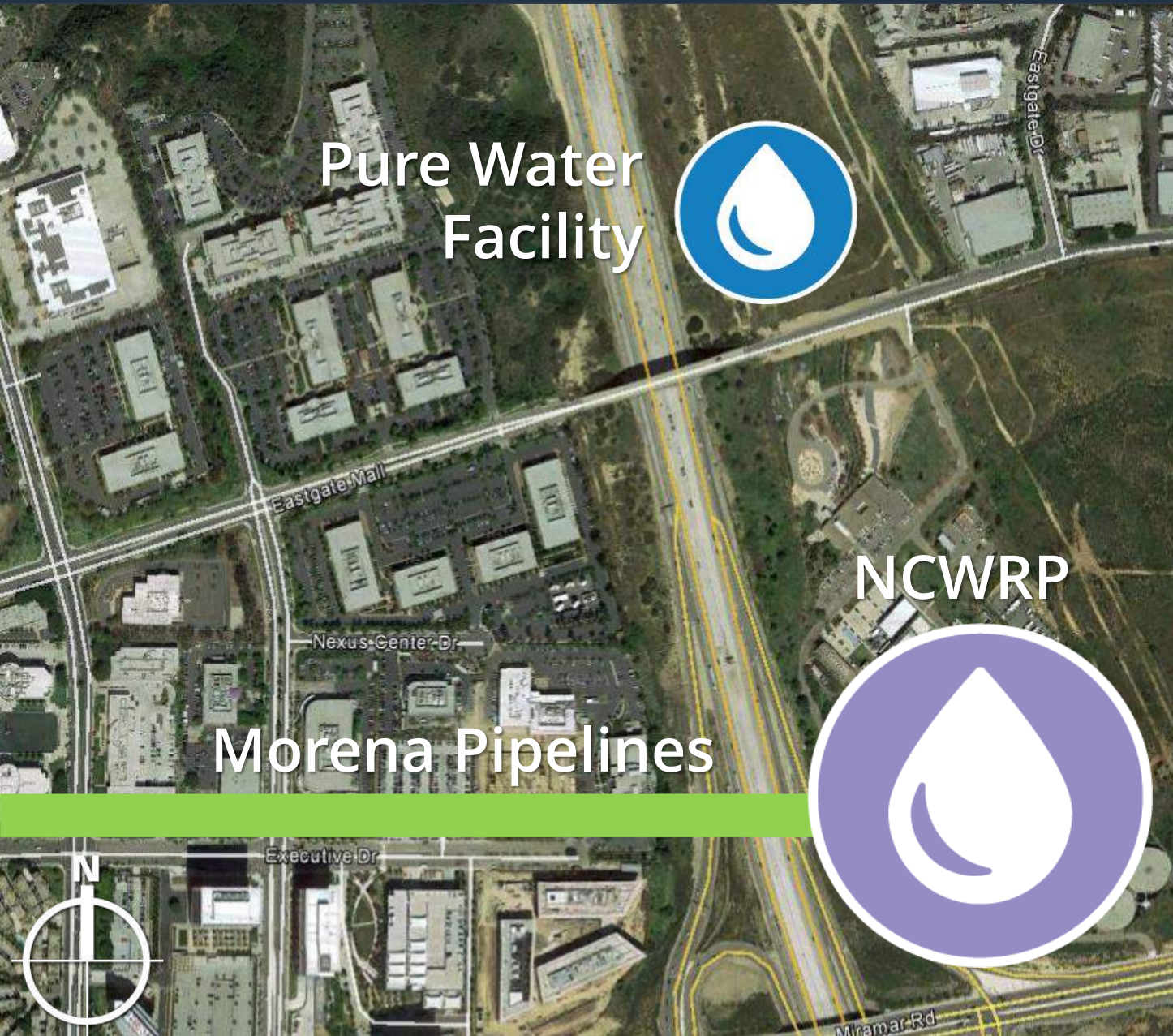


SD Morena Pump Station & Wastewater Pipelines



- Two 10.7 mile wastewater pipelines
 - *Convey wastewater to North City Water Reclamation Plant (WRP) and salts and contaminants to the Point Loma Wastewater Plant*
- Support Phase I Pure Water and recycled water production
- Design completion: Mid 2018
- Construction: 2019 – 2021

SD North City WRP Expansion



- Treats wastewater to recycled water standards
- Expansion nearly doubles the amount of recycled water produced to meet needs of:
 - *Pure Water Facility*
 - *Recycled Water System*
- Design Completion: Mid 2018
- Construction: 2019 - 2021

SD North City Pure Water Facility



Pure Water
Facility

NCWRP

- Treats recycled water to produce 30 million gallons of purified water per day
- Includes a proven 5-step advanced water purification treatment process
- Design Completion: Mid 2018
- Construction: 2019 – 2021



North City Pure Water Facility



Ozonation



Biological
Activated
Carbon
Filters



Membrane
Filtration



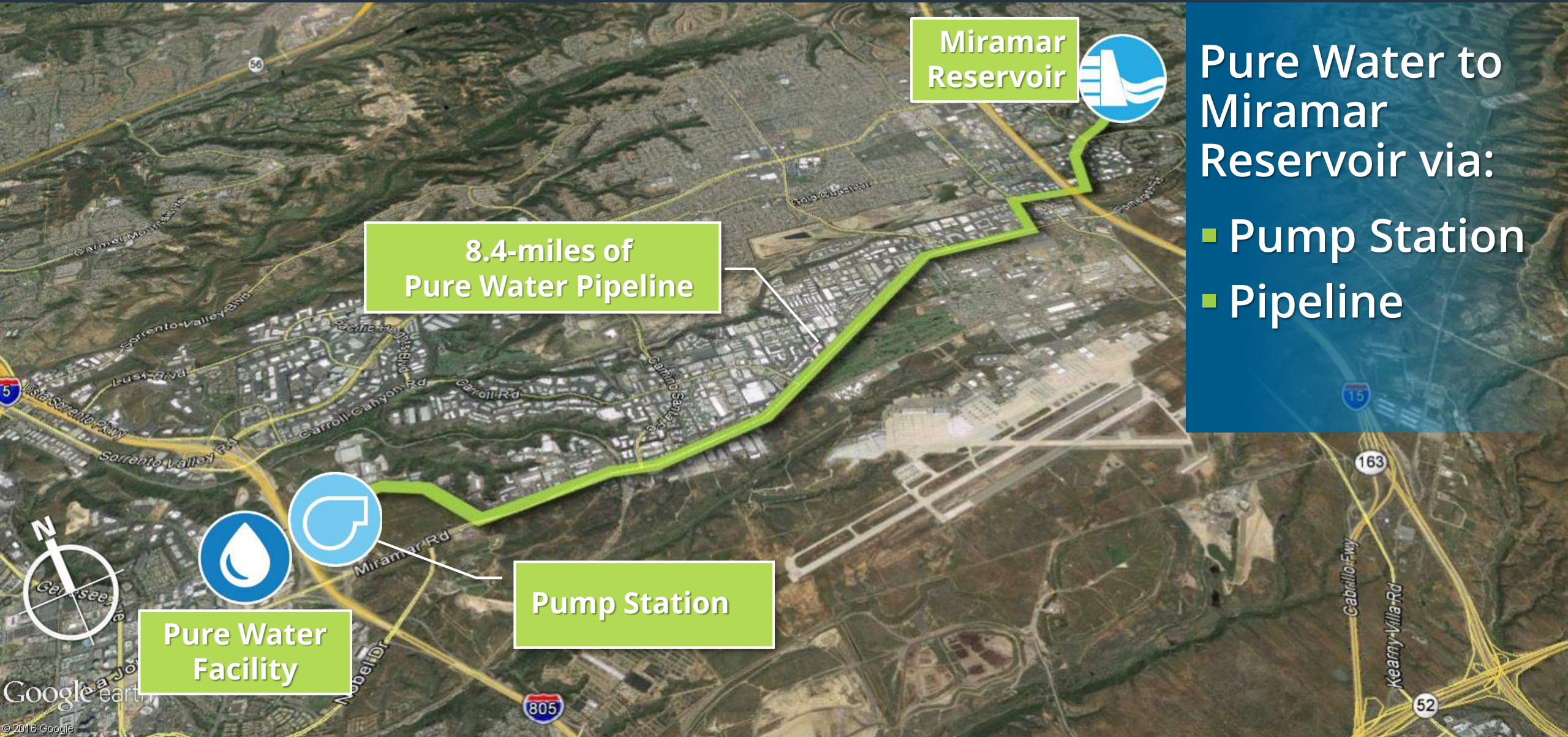
Reverse
Osmosis



Ultraviolet
Disinfection
/Advanced
Oxidation



SD North City Pure Water Pump Station and Pipeline



Miramar Reservoir



8.4-miles of Pure Water Pipeline

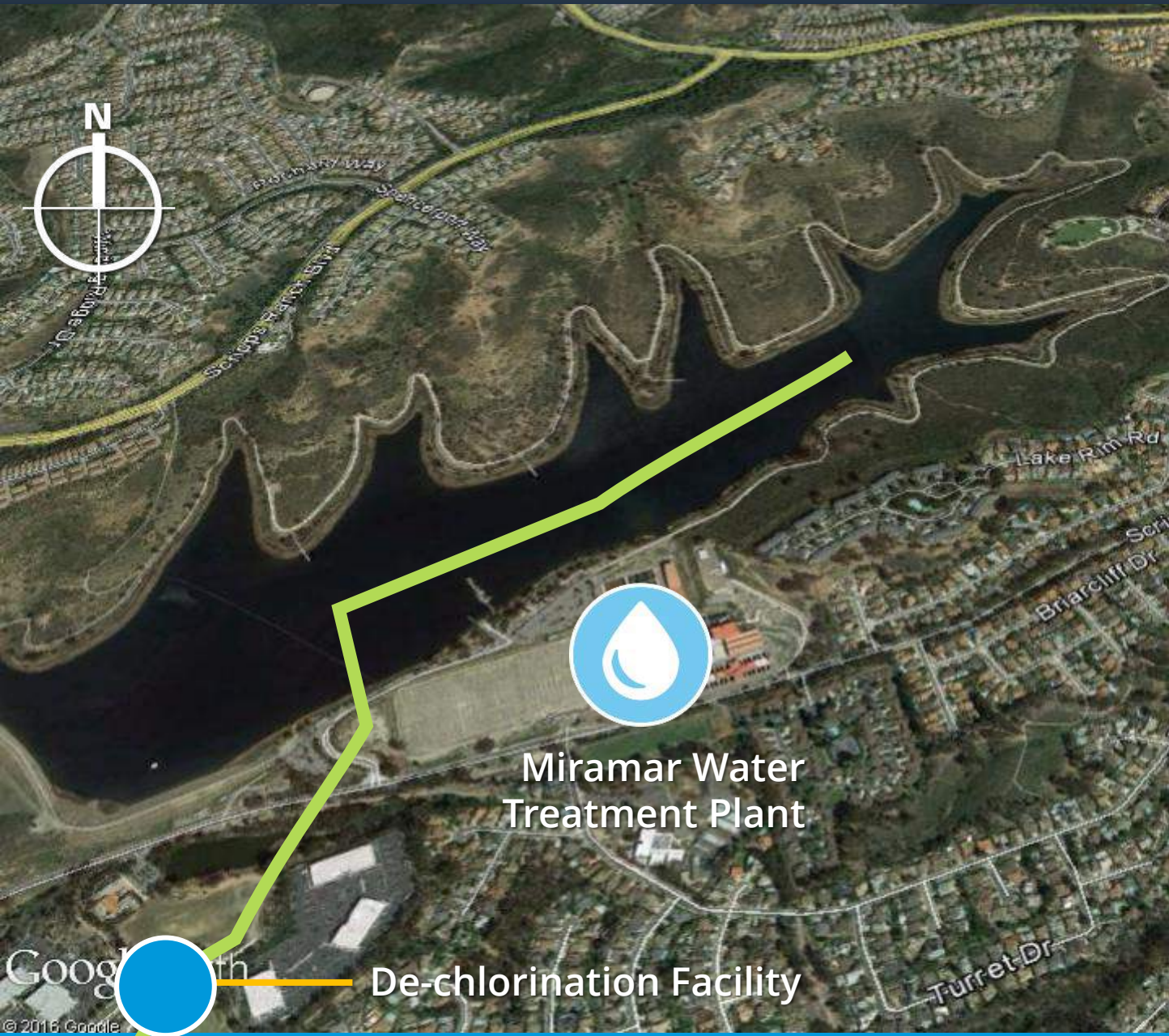
Pump Station

Pure Water Facility

Pure Water to Miramar Reservoir via:

- Pump Station
- Pipeline

SD Miramar Reservoir



The purified water:

- Is released via underwater pipeline in the reservoir
- Will blend with imported and local water supplies
- Design Completion: Late 2018
- Construction: 2019 - 2021

SD North City Renewable Energy



Pure Water



Renewable Energy



Miramar Landfill



Metro Biosolids Center

Produces Renewable Energy

- Supports Greenhouse Gas reduction
- ~16 MW



Morena Pump Station & Pipelines University City Community Alignment Overview

Joe Long



Working Group Topics

- 1. Multiple disruptions and project coordination**
- 2. Street restoration**
- 3. Air quality/odor/noise**
- 4. Staging areas/parking**
- 5. Environmental monitoring**
- 6. Traffic control/signage**
- 7. Special stakeholder access needs**
- 8. Outreach, communication and notifications**
- 9. Work restrictions and construction phasing**
- 10. Working days and hours**
- 11. Construction monitoring**

SD Morena Project Pipeline Alignment

University City Community:

- **Genesee Avenue (at Appleton Street) to Nobel Drive to Towne Centre Drive to Executive Drive under the 805 to NCWRP on Eastgate Mall**

Legend:

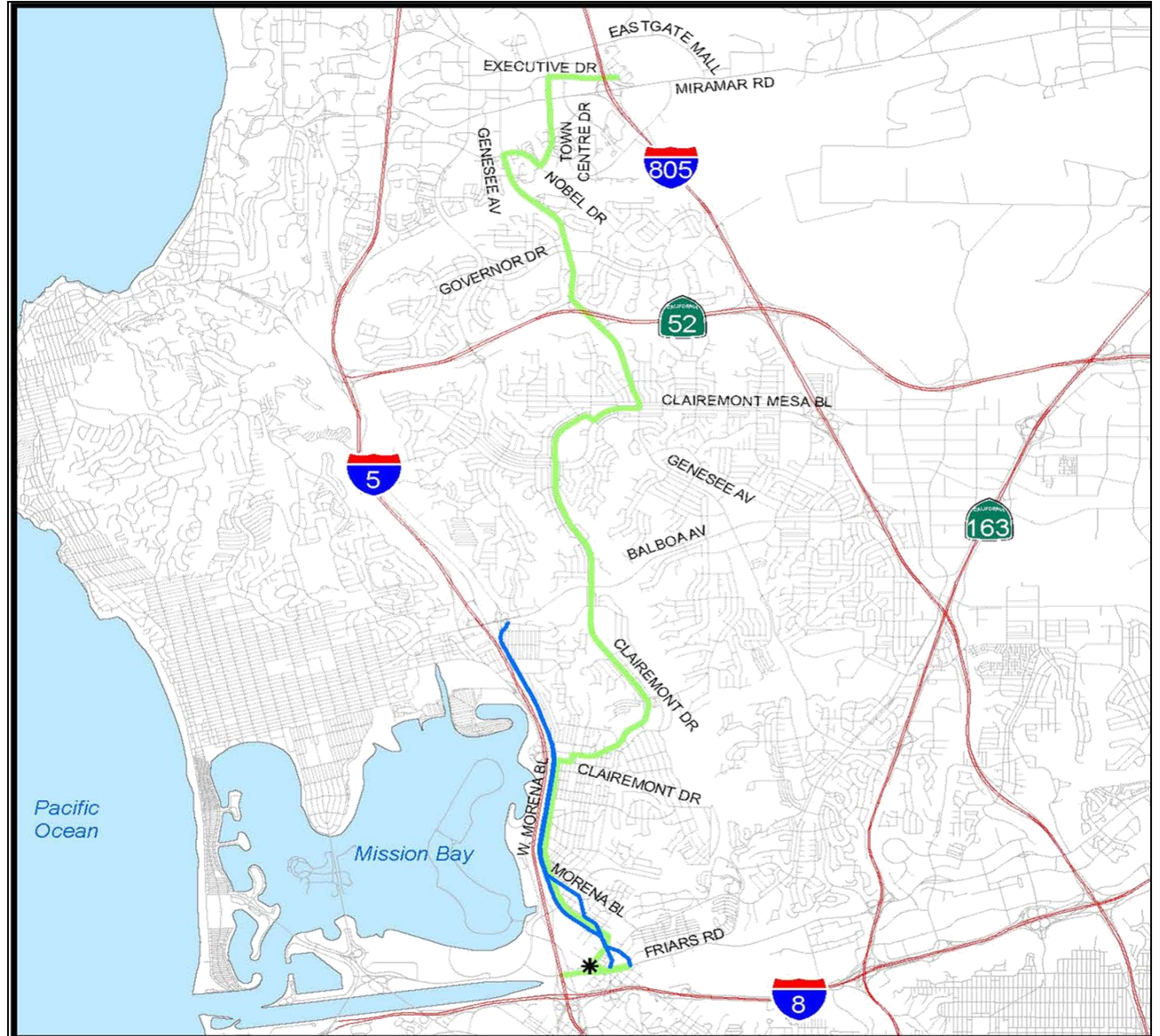
Morena Wastewater Pipelines



Morena Pump Station

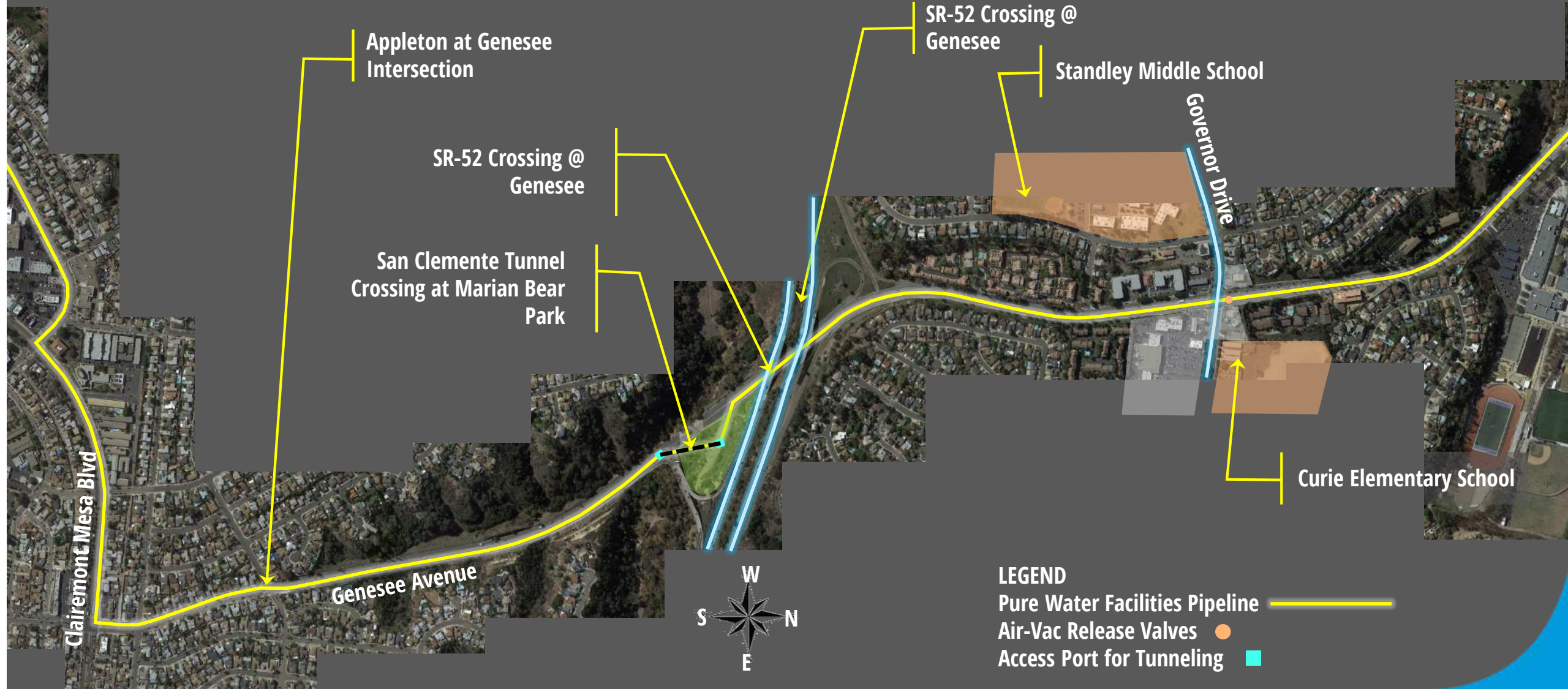


Morena Water Pipelines





University City Community



- LEGEND**
- Pure Water Facilities Pipeline ———
 - Air-Vac Release Valves ●
 - Access Port for Tunneling ■



University City Community



University City High School

Genesee Avenue

Future MTS Mid-Coast
Trolley Station (UTC -
Genesee)

Towne Centre Drive

Office

LOSSAN Rail Corridor

La Jolla Village Drive

Executive Drive

Governor Drive

- LEGEND**
- Pure Water Facilities Pipeline —————
 - Air-Vac Release Valves ●
 - Access Port for Tunneling ■

Construction Topics & Contracts Documents

Sean McCarty

Working Group Meeting Topics

- 1. Multiple disruptions and project coordination**
- 2. Street restoration**
- 3. Air quality/odor/noise**
- 4. Staging areas/parking**
- 5. Environmental monitoring**
- 6. Traffic control/signage**
- 7. Special stakeholder access needs**
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■ **Site Development Permit No. 2092309**

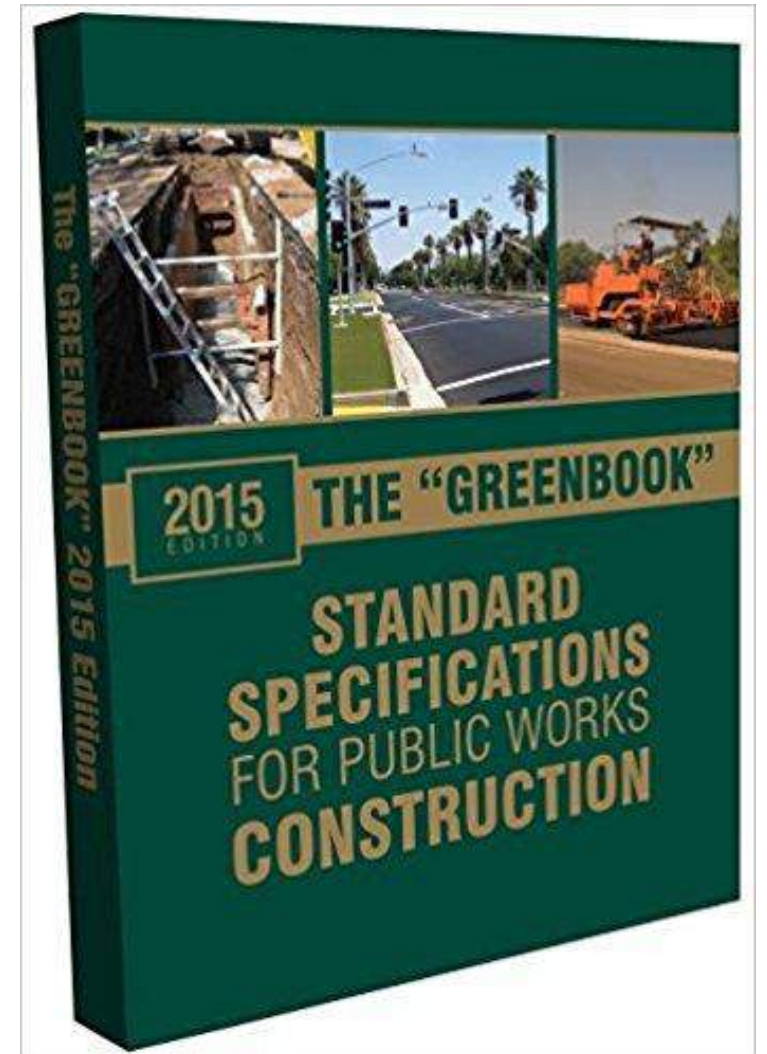
Pure Water North City Project specific permit granted by the City Council

- Requirement Topics include, but are not limited to: Standard Items, Environmental/Mitigation, Climate Action Plan and Engineering

■ **Standard Specifications for Public Works Construction “Greenbook”**

Standard Public Works construction guidelines adopted for use by over 200 cities/counties and agencies

- Chapters include, but are not limited to: General Provisions, Construction Materials, Construction Methods



- **Standard Specifications for Public Works Construction “Whitebook”**

City of San Diego supplement to the “Greenbook”

- Provides more detail and requirements to those topics specified in the Greenbook

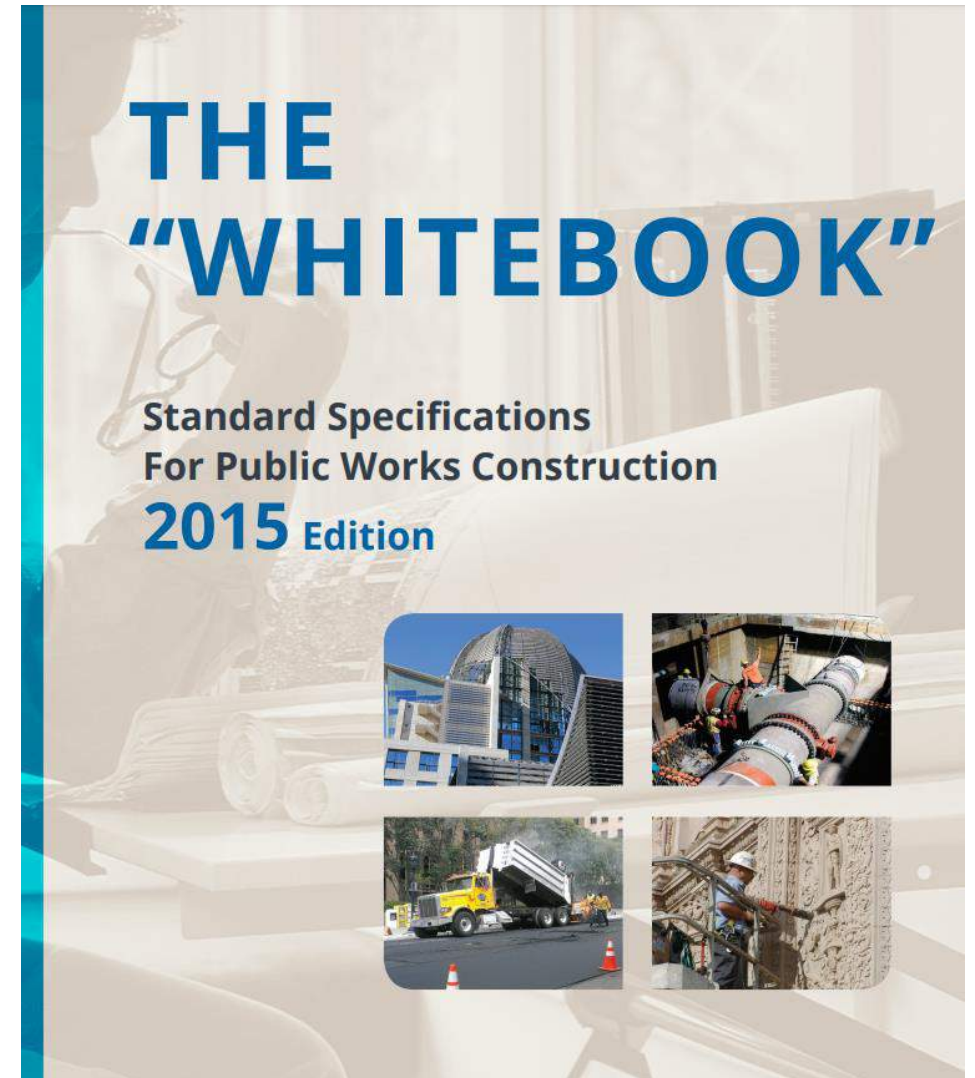
- **City of San Diego Supplementary Special Provisions “SSP”**

Project specific contract requirements to supplement the “Whitebook”

- **Project Plan Drawings**

Project specific engineering and construction details

- Details include pipeline plan and profiles, survey, traffic control, etc.



Construction Contract Documents Requirements

- The City is required to follow a minimum set of construction standards that are outlined in the contract documents. These are detailed in the 11 x 17 handout provided.
- Some examples of standard construction requirements include:
 - *Noise: Construction hours beyond 7 p.m. requires obtaining a noise permit from the Development Services Department. Work hours with public right-of-way are established by Average Daily Traffic (ADT) counts.*
 - *Schedule Restrictions: Work hours established by ADTs and specified in SSP and traffic control plans. Other work restrictions that are project specific are included in the SSP.*
 - *Other Items: Traffic control and circulation, trench and roadway restoration, landscape restoration, etc.*
- Construction and mitigation requirements that the City already has in place will be discussed in detail at future meetings.

Meeting 1 Construction Topics: Coordination Between Projects and Street Restoration

Sean McCarty



Coordination Between Projects

- **The City coordinates with the SANDAG Project periodically to mitigate schedule conflicts if they arise.**
- **The City monitors Capital Improvement Projects monthly to identify potential conflicts with upcoming projects to avoid impacting a community with a new project shortly after completion.**

SD Street Restoration

- **Goal: Provide a serviceable and lasting roadway surface after construction is completed.**
- **What are we doing to achieve goal:**
 - *Providing curb to curb pavement restoration along the alignment*
 - *Upgrading existing pedestrian curb ramps to meet current ADA standards along the alignment*
 - *3-5 year road moratorium will be in place depending on surface technique*
 - *Coordinating with agencies/companies outside of the City to notify them of the road moratorium (SANDAG, SDG&E, Cox Communications, etc.)*

