LA’s Future Water Supply Reliability

Southern California Water Dialogue
“Getting it in the Ground”

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Local Water Supply Program Supports City's Sustainable Water Mandates

2014 Executive Directive No. 5
- 2017: Reduce GPCD by 20%
- Create an integrated strategy to increase local supplies

2015 Sustainable City pLAN
- 2035: Reduce GPCD by 25%
- 2025: Reduce purchased imports by 50%
- 2035: 50% of water locally sourced

2015 Urban Water Management Plan
- Expand conservation
- Expand recycled water
- Enhance stormwater capture
- RemEDIATE contamination in groundwater basin
Local Water Supply Program

Recycled Water

Stormwater Capture

Water Conservation

SF Groundwater Basin Remediation

Local Water Supply Reliability
LA’s Groundwater Water Rights

### Primary Groundwater Basins

<table>
<thead>
<tr>
<th>Basin</th>
<th>Volume</th>
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</thead>
<tbody>
<tr>
<td>San Fernando Basin</td>
<td>87,000 AFY</td>
</tr>
<tr>
<td><strong>Central Basin</strong></td>
<td>17,236 AFY</td>
</tr>
<tr>
<td>Sylmar Basin</td>
<td>3,570 AFY</td>
</tr>
<tr>
<td>West Coast Basin</td>
<td>1,503 AFY</td>
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<tr>
<td>LA’s Total Groundwater</td>
<td>109,309 AFY</td>
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</tbody>
</table>
Planned groundwater basin remediation will be crucial to restoring the health and beneficial uses of the San Fernando Basin.
San Fernando Groundwater Basin
Multiple Plumes and Contaminates

OTHER CHEMICALS OF CONCERN

**Volatile Organic Compounds (VOC’s)**
- Tetrachloroethylene (PCE)
- 1,1-Dichloroethene (1,1 DCE)
- cis-1,2-Dichloroethylene (cis-1,2DCE)
- 1,2-Dichloroethane (1,2 DCA)
- Trichlorofluoromethane (Freon 11)
- Carbon Tetrachloride

**Inorganic Compounds**
- Chromium
- Perchlorate
- Nitrate

**Other Chemicals**
- n-nitrosodimethylamine (NDMA)
- 1,2,3-Trichloropropane (1,2,3 TCP)
- 1,4-Dioxane

**Trichloroethylene (TCE) concentration**
- 0.5 - 5 µg/L
- 5 - 50 µg/L
- 50 - 100 µg/L
- 100 - 1000 µg/L
- ≥ 1000 µg/L
Site Characterization

Characterized basin
- 6-year study (2015)
- Identified contaminants
- 70,000 data points

New Monitoring Wells
- 26 Monitoring Wells

Updated 1992 Remedial Investigation

Community Involvement
SFB Proposed Projects
(Pending completion of Remedial Investigation/Feasibility)

North Hollywood West Wellhead
1,4-Dioxane

Tujunga Central
VOC & 1,4-Dioxane

North Hollywood Central
VOC & 1,4-Dioxane

Pollock
1,4-Dioxane
Local Supply Development - Recycled Water

**Goal:** 75,400 AFY

NPR: 45,400 AFY

Non-Potable Reuse

IPR/GWR: 30,000 AFY

Indirect Potable Reuse

- Wastewater Treatment
- Urban Water Use
- Water Treatment
- Advanced Water Purification
- Nature
Local Supply Development - Stormwater Capture

**SW Capture Potential:** 68,000 – 114,000 AFY

### Centralized
- Dam Improvements
- Spreading Basins

### Distributed
- Dry Wells
- Cisterns
- Green Streets
- Rain Barrels
Thank You

Questions?