Update on Davis Woodland Water Supply Project

Davis Water Advisory Committee
January 12, 2012
Woodland-Davis Clean Water Agency

- Formed September 15, 2009
- JPA of Davis and Woodland; UC Davis a Participating Agency
- Governing Board - 2 council members from each city + non-voting representative from UC Davis and Yolo County
- Funded by user fees in each city
Issues/Concerns

• 100% dependence on groundwater
• Aging water systems
• Degradation of groundwater supplies
• More stringent drinking water regulations
• More restrictive wastewater discharge regulations
• Household consumer costs (water softeners, wear and tear on appliances)
WDCWA – Goals and Objectives

- Improve water supply yield and quality
- Comply with drinking water/wastewater discharge regulatory requirements
- Provide environmental benefits and minimize impacts
- Broaden supply portfolio to increase supply reliability
- Integrate aggressive water conservation element
Solution

• Surface water supply project
  – Intake/diversion facility on Sacramento River
  – Raw water pipelines to new water treatment facility near Woodland
  – Treated water transmission pipelines to Woodland and Davis
  – Local system improvements in both cities – distribution pipelines, storage tanks, booster pumps
Raw Water Transmission Pipelines

Intake/ Pumping Station

Regional Water Treatment Facility

Treated Water Transmission Pipelines

Local Transmission and Distribution Facilities
# Water Quality

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Groundwater</th>
<th>Sacramento River</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salinity (EC, uohms/cm)</td>
<td>640 – 1,140</td>
<td>190 – 210</td>
</tr>
<tr>
<td>Boron, ppb</td>
<td>500 – 2,300</td>
<td>&lt;100</td>
</tr>
<tr>
<td>Selenium, ppb</td>
<td>0 - 40</td>
<td>&lt;0.1</td>
</tr>
<tr>
<td>Nitrates, ppm</td>
<td>1 - 40</td>
<td>&lt;1</td>
</tr>
<tr>
<td>Iron, ppb</td>
<td>0 - 720</td>
<td>0.32</td>
</tr>
<tr>
<td>Manganese, ppb</td>
<td>0 - 110</td>
<td>&lt;15</td>
</tr>
</tbody>
</table>

Sources: Woodland & Davis Annual Water Quality Reports for groundwater; 2009 treated water quality reports for West Sacramento water treatment plant for Sacramento River
### Water Supplies - DWWSP

<table>
<thead>
<tr>
<th>Water Supply Source</th>
<th>Average % of Annual Demand</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agency Water Right</td>
<td>~61</td>
</tr>
<tr>
<td>CPG</td>
<td>~22</td>
</tr>
<tr>
<td>Municipal GW</td>
<td>~14</td>
</tr>
<tr>
<td>ASR/Supplemental</td>
<td>&lt;3</td>
</tr>
</tbody>
</table>

**Note:** ASR has the potential to supersede municipal groundwater usage in most years.

#### Water Conservation (Ongoing)

- **Municipal Groundwater**
  - (Woodland: Existing municipal wells; Davis: Deep aquifer wells only)

- **CPG Water Rights Purchase**
  - (available Apr–Oct; subject to Shasta critical years)

- **WDCWA Water Right Permit**
  - (subject to Term 91 curtailments)

- **ASR/Supplemental Supplies**

**Demand Management (Dry Years)**

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8
Project Implementation Schedule, 2010-2016

2010
Permitting
Pre-Design

2011
Permitting
Pre-Design
Water Right Permits
DBO Procurement
Financing

2012
Design/Permitting
Financing
DBO Contract

2013
Design/Permitting
Pipelines/Water Treatment Facility Construction
Financing

2014
Pipelines/Water Treatment Facility/Local Facilities Construction
Financing

2015
Intake/Pipelines/Water Treatment Facility and Local Facilities Construction

2016
Completion of Construction
Start-up and Operation

DESIGN
CONSTRUCTION
OPERATION
Davis completes a Water System Management Plan, which concluded that the city should drill deep wells to obtain higher quality groundwater and investigate supplemental surface water.
Project History, 1989 - 2002

Davis, UC Davis, and other entities in Yolo and Solano Counties complete a reconnaissance investigation of water supply alternatives. The report concluded that the best prospects for obtaining supplemental water were:

- Recharging water from Cache Creek
- Appropriating water from the Sacramento River
- Purchasing water from Conaway Ranch
- Implementing a conjunctive surface water/groundwater use program
Project History, 1989 - 2002

1989 Davis Water Master Plan
1992 Yolo County Water Plan Update
1994 Water Rights Application Filed
1996 Davis Future Water Supply Evaluation
1999 Davis/UCD Deep Aquifer Study
2000 Yolo County Flood Control & Water Conservation District (YCFC&WCD) Water Management Plan: Indian Valley Reservoir
2001 UCD Draft Water Master Plan
2001 Groundwater Storage Program Feasibility Study Grant Application for YCFC&WCD-City of Woodland Conjunctive Water Use Project
2002 Conceptual Groundwater Model
2002 Davis/UC Davis Joint Water Supply Feasibility Study

The YCFC&WCD files an application to the SWRCB to appropriate water from the Sacramento River on behalf of Davis, UC Davis, and other entities in Yolo County.
Project History, 1989 - 2002

1989 Davis Water Master Plan

1989-1994 Countywide Water Planning

1992 Yolo County Water Plan Update

1994 Water Rights Application Filed

1996 Davis Future Water Supply Evaluation

1999 Davis/UCD Deep Aquifer Study

2000 Yolo County Flood Control & Water Conservation District (YCFC&WCD) Water Management Plan: Indian Valley Reservoir

2001 Groundwater Storage Program Feasibility Study Grant Application for YCFC&WCD-City of Woodland Conjunctive Water Use Project


2000 UCD Draft Water Master Plan


2002 Conceptual Groundwater Model

2002 Davis/UCD Deep Aquifer Study

2002 Davis/UC Davis Joint Water Supply Feasibility Study

Davis completes Future Water Supply Needs Study, which concluded that the city should further evaluate the adequacy of deep wells to support additional pumping and pursue the surface water rights application filed in 1994.
Project History, 1989 - 2002

- **1989** Davis Water Master Plan
- **1992** Yolo County Water Plan Update
- **1989-1994** Countywide Water Planning
- **1994** Water Rights Application Filed
- **1996** Davis Future Water Supply Evaluation
- **1999** Davis/UCD Deep Aquifer Study
- **2000** Yolo County Flood Control & Water Conservation District (YCFC&WCD) Water Management Plan: Indian Valley Reservoir
- **2001** Groundwater Storage Program Feasibility Study Grant Application for YCFC&WCD-City of Woodland Conjunctive Water Use Project
- **2002** Conceptual Groundwater Model
- **2002** Davis/UC Davis Joint Water Supply Feasibility Study
- **1999** Davis/UC Davis Deep Aquifer Study

Davis and UC Davis jointly complete a grant-funded Phase 1 Deep Aquifer Study. This study concluded the deep aquifer was highly confined, contains water that is roughly 8,000-17,000 years old, and may not be a sufficiently reliable source to satisfy future water supply needs of both Davis and UC Davis.
Project History, 1989 - 2002

**1989** Davis Water Master Plan

**1992** Yolo County Water Plan Update

1989-1994 Countywide Water Planning

**1994** Water Rights Application Filed

1996 Davis Future Water Supply Evaluation

**1999** Davis/UCD Deep Aquifer Study

2000 Yolo County Flood Control & Water Conservation District (YCFC&WCD) Water Management Plan: Indian Valley Reservoir

2001 Groundwater Storage Program Feasibility Study Grant Application for YCFC&WCD-City of Woodland Conjunctive Water Use Project

**2002** Conceptual Groundwater Model

**2002** Conceptual Groundwater Model

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**Davis/UC Davis Joint Water Supply Feasibility Study**

**2002** Conceptual Groundwater Model

Davis and UC Davis complete a grant-funded Joint Water Supply Feasibility Study. The Study concluded that:

- In the immediate future, Davis should transition to, and UC Davis should continue to rely on, water from the deep aquifer
- Davis and UC Davis should pursue surface water rights
- Davis/UC Davis should pursue long-term conjunctive use program involving surface water and groundwater from the deep aquifer
- Joint project with West Sacramento preferred option
Woodland completes a Surface Water Supply Feasibility Study which evaluated 4 alternatives and concluded:

- The preferred alternative would deliver water directly to municipal users, with a storage reservoir to provide a year round supply
- A surface water project is technically, environmentally, institutionally and economically feasible

Surface Water Supply and Feasibility Study, City of Woodland
Project History, 2003 - 2007

**2004** Technical Memorandum, Davis/UC Davis/Woodland Joint Water Supply Project

**2004** Deep Aquifer Impact Assessment

**2005** City of Woodland Yolo Bypass Water Quality Management Plan Report

**2005** An Approach to Develop Site-Specific Criteria for Electrical Conductivity, Boron, and Fluoride to Protect

**2005** City of Woodland Surface Water Supply and Feasibility Study, City of Woodland

**2005** City of Woodland Yolo Bypass Water Quality Management Plan Report

**2005** An Approach to Develop Site-Specific Criteria for Electrical Conductivity, Boron, and Fluoride to Protect

**2005** Urban Water Management Plans: Woodland and Davis

**2005** City of Woodland Salinity Source Control Plan

**2005** Phase II Deep Aquifer

**2006** Davis/UC Davis Groundwater Management Plan

**2006** City of Woodland Surface Water Supply Feasibility Study

**2006** Davis/UC Davis Groundwater Management Plan


**2007** Yolo County IRWMP

**2007** Davis-Woodland Water Supply Project: Evaluation of Funding Technical Memorandum

**2007** Draft & Final EIR for DWWSP

**2007** Project Construction Cost Estimate

**2007** Community Report

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**TM Davis/UC Davis/Woodland Joint Water Supply Project**

Davis, UC Davis, and Woodland completes a Technical Memorandum that evaluated conjunctive surface water /groundwater supply project alternatives that could serve all 3 parties. Following alternative were evaluated:

- Supply Davis, UC Davis, and Woodland with combination of groundwater and surface water from West Sacramento
- Supply Davis, UC Davis, and Woodland with combination of groundwater and surface water from new Sacramento River intake located north of Sacramento Weir
- Supply Davis, UC Davis, and Woodland with combination of groundwater and surface water RD 2035 intake
- TM presented estimated costs and implementation steps, a preferred alternative was not identified
This TM was prepared to assess the impacts of the construction of 4 to 6 additional deep wells by the City of Davis. Identified potentially significant adverse impacts included:

- Well interference – Anticipated pumping of new City wells could induce up to 40 feet of water level interference in UC Davis wells
- Subsidence – Although difficult to quantify, there is a potential for ground surface subsidence
- Water quality degradation – Pumping of new deep wells could cause the gradual degradation of deep aquifer water quality
Phase II Deep Aquifer Study

Davis and UC Davis complete a grant-funded Phase II Deep Aquifer Study. Observations and conclusions included:

- Deep groundwater is recharged from the west. Carbon dating indicates that deep groundwater is ~8,000 yrs. old beneath Vacaville and ~10,000-20,000 yrs. old beneath Davis.
- Manganese and arsenic levels vary vertically and horizontally, and may exceed drinking water MCLs.
- Pumping of new deep wells in west Davis produced up to 10 feet of drawdown in existing UC Davis deep wells.
- Average water levels in deep wells do not appear to be decreasing at current pumping rates. With increased use, sustainability for deep wells is likely to be limited by excessive drawdown which could result in subsidence, increased power costs, well performance deterioration, and other adverse impacts.
Project History, 2003 - 2007

2004 Technical Memorandum, Davis/ UC Davis/Woodland Joint Water Supply Project

2004 Deep Aquifer Impact Assessment TM

2005 City of Woodland Yolo Bypass Water Quality Management Plan Report

2005 An Approach to Develop Site-Specific Criteria for Electrical Conductivity, Boron, and Fluoride to Protect Agricultural Beneficial Uses (for City of Woodland)

2005 Urban Water Management Plans: Woodland and Davis


2006 Davis/UC Davis Groundwater Management Plan

2007 Yolo County IRWMP

2007 Project Construction Cost Estimate


2007 Community Report

Draft & Final EIR for DWWSP

Davis, Woodland, and UC Davis complete Draft and Final EIRs for the DWWSP that addressed potential environmental consequences of constructing and operating the project and recommended mitigation measures.

2009 Alternative Pipeline Alignment Analysis Technical Memorandum

2009 Authorization from City Council for Phase 1

2010 WDCWA Water Supply Contract with UC Davis

2010 WDCWA and UC Davis Water Supply Contract

2010 Contract Delivery Methods TM

2010 Water Purchase Agreement with CPC

2010 Updated Community Report

2010 Agency Website Established

2010 WDCWA JPA Formed

Project History, 2008 - 2010


NWRI Panel completes independent peer review of the DWWSP that concluded:

- DWWSP would meet project objectives to provide a reliable water supply, improve drinking water quality, and improve wastewater effluent quality
- DWWSP should not be postponed
- Alternatives to the DWWSP that could meet project objectives were infeasible

2008 Water Treatment Plant Design Concept Technical Memorandum

2010 Clean Water Agency Established

2010 Water Purchase Agreement with CPC
Project History, 2008 - 2010


2008 Water Treatment Plant Design Concept Technical Memorandum

2009 Alternative Pipeline Alignment Analysis Technical Memorandum

2009 Authorization from City Council for Phase 1

2009 Review of City of Davis Water Resources Master Plan

Ed Schroeder & George Tchobanoglous complete review of Davis Water Resources Master Plan, and recommendations that Davis and UC Davis should:

- Move forward as rapidly as possible to develop a surface water supply
- Make interim improvements to water supply infrastructure to reduce selenium concentrations
- Move ahead with aggressive water conservation program

2009 WDCWA Water Supply Contract with UC Davis

2010 Contract Delivery Methods TM

2010 Water Purchase Agreement with CPC

2010 Updated Community Report

2010 WDCWA and UC Davis Water Supply Contract

2010 WDCWA Water Supply Contract with UC Davis
### Project Cost Estimate

A TM was completed that summarized and updated DWWSP construction and total project cost estimates. Updated information is summarized below:

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<td>Total Project (includes construction, land acquisition, engineering, environmental, legal, financial, &amp; summer water option costs)</td>
<td>$304M</td>
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**2008 Water Treatment Plant Design Concept Technical Memorandum**


**2009 Alternative Pipeline Alignment Analysis Technical Memorandum**

**2009 Edward Schroeder & George Tchobanoglous – Review of City of Davis Water Resources Master Plan**

**2010 WDCWA Water Supply Contract with UC Davis**

**2010 Contract**

**2010 Water Agency Website Established**

**2010 Updated Community Report**

**2010 Water Purchase Agreement with CPC**

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- 2010 Contract Delivery Methods TM
- 2010 WDCWA and UC Davis Water Supply Contract
- 2010 Water Purchase Agreement with CPC

**Davis/Woodland City Councils Authorize Proceeding with Phase 1 DWWSP**

Davis and Woodland City Councils authorize proceeding with Phase 1 DWWSP activities, including:

- Drafting of agreement and formation of JPA
- Initiation of negotiating an agreement with RD 2035 for joint intake use
- Resolving protests and securing surface water right
- Moving forward on contacts with summer water sellers
- Advancing facilities permitting and land acquisition and/or easements
- Public outreach activities
Project History, 2008 - 2010


2008 Water Treatment Plant Design Concept Technical Memorandum

2009 Alternative Pipeline Alignment Analysis Technical Memorandum

2009 Authorization from City Council for Phase 1

2009 WDCWA JPA Formed

2009 WDCWA JPA Formed

2010 WDCWA Water Supply Contract with UC Davis

2010 Contract Delivery Methods TM

2010 WDCWA and UC Davis Water Supply Contract

2010 Water Purchase Agreement with CPC

2010 Updated Community Report

2010 WDCWA and UC Davis Water Supply Contract

The Woodland/Davis Clean Water Agency (WDCWA) formed to implement and operate regional water supply facilities.
The WDCWA created a website to disseminate information regarding the DWWSP, including:

- Project information such as project details, costs, and timelines
- News and events, such as community meetings and notice of the issuance of draft DBO procurement documents for public comment
- JPA Board agendas and meeting videos
- Pertinent documents including reports, technical memoranda, agreements, and newsletters
- Links to related websites
- WDCWA contact information
A TM was completed that analyzed project delivery options and presented the following conclusion and recommendations:

- Regional project facilities should be constructed by DBO method. This recommendation was based on financial, performance responsibility, and risk considerations.

- Local facilities should be independently constructed by each City, using City’s preferred method of project delivery.
WDCWA and UC Davis enter into agreement that included the following provisions:

- UC Davis assigned its interests in pending surface water rights permit to the WDCWA
- UC Davis has an option to pay proportionate share of project-related costs in exchange for 1.8 mgd capacity in DWWSP
- Option expires ninety days after commencement of operation of the regional water treatment plant and delivery of treated water, or the date of any extension agreed to by the WDCWA and UC Davis
Conaway Preservation Group agrees to sell 10,000 AF of “summer water” to WDCWA beginning in 2016. Amount may be reduced to 7,500 AF in a “critical year” as defined in CPG Sacramento River Settlement Contract.
2011 DWWSP Alternative Summary TM

2011 DBO Teams Short-Listed

2011 SWRCB Adopted Decision

2011 Draft DBO Procurement Documents Issued

2011 DWWSP Alternative Summary TM

2011 USBR Funded Design of RD 2035 Intake

- Reclamation District 2035 receives a grant for the design of a new 400 cfs pump station and flat plate-wedge-wire positive barrier fish screen facility. 80 cfs of this capacity will be dedicated to the DWWSP
- 100% design effort for joint intake now underway using funding from this grant

2011 Updated Construction Cost Estimate

2011 USBR Funded Design of RD 2035 Intake

USBR Funded Design of RD 2035 Intake

2011 30% Complete Intake Design Drawings

2011 30% Complete Intake Design Drawings

2011 ASR Feasibility TM

2011 ASR Feasibility TM

2011 Water Supply Feasibility TM

2011 Water Supply Feasibility TM

2011 Woodland Groundwater Management Plan

2011 Woodland Groundwater Management Plan

2011 Updated Construction Cost Estimate
A technical memorandum was prepared summarizing the 27 DWWSP alternatives identified in various studies and reports over the past twenty years.
State Water Resources Control Board adopted Decision 1650 approving WDCWA’s application to divert a maximum of 45,000 acre-feet of water annually from the Sacramento River, subject to certain conditions.

State Water Resources Control Board adopted Decision 1650 approving WDCWA’s application to divert a maximum of 45,000 acre-feet of water annually from the Sacramento River, subject to certain conditions.
2011 SWRCB Adopted Decision 1650

2011 DBO Teams Short-Listed

2011 Draft DBO Procurement Documents Issued

2011 SWRCB Adopted Decision 1650

2011 Draft DBO Procurement Documents Issued

2011 ASR Feasibility TM

2011 Water Supply Feasibility TM

2011 Draft DBO Procurement Documents Issued

WDCWA prepared and issued a draft Request for Proposals to design, build, and operate regional water supply facilities.

2011 DWWSP Alternative Summary TM

2011 USBR Funded Design of RD 2035 Intake

2011 Updated Construction Cost Estimate

2011 ASR Feasibility TM

2011 Water Supply Feasibility TM
Project History, 2011 - 2012

2011 SWRCB Adopted Decision 1650

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<td>w/o UCD Participation</td>
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<tr>
<td>Total Project (includes construction, land acquisition, engineering, environmental, legal, financial, &amp; summer water option costs)</td>
<td>$318</td>
<td>$336M</td>
<td>$337M</td>
</tr>
</tbody>
</table>
ASR Feasibility TM

TM completed that analyzes feasibility of Aquifer Storage Recovery (ASR) wells as component of water supply for DWWSP. Conclusions included:

- Cost of ASR water compares favorably with cost of purchase of additional Sacramento River water, is more reliable, and is less subject to price volatility
- ASR appears to be the most feasible supplemental water source for the DWWSP
**Project History, 2011 - 2012**

- **2011** DWWSP Alternative Summary TM
- **2011** SWRCB Adopted Decision 1650
- **2011** DBO Teams Short-Listed
- **2011** Updated Construction Cost Estimate
- **2011** USBR Funded Design of RD 2035 Intake
- **2011** 30% Complete Intake Design Drawings
- **2011** Woodland Groundwater Management Plan
- **2011** ASR Feasibility TM

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**Water Supply Feasibility TM**

**TM completed that quantifies potential magnitude and frequency of future DWWSP surface water supply deficits and potential effectiveness of: (1) 10% demand reductions during critically dry years, and (2) ASR wells to deal with these potential deficits. Major conclusions:**

- With demand management to achieve 10% reduction during critically dry years, Davis is expected to have few deficits through 2030 due to deep aquifer supply.
- With demand management and a total of 5 ASR wells, Woodland could mitigate potential deficit conditions.
## Milestones Achieved

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Impact Report Certified</td>
<td>November 2007</td>
</tr>
<tr>
<td>Appropriate Water Rights Obtained (45 TAF)</td>
<td>March 2011</td>
</tr>
<tr>
<td>Draft RFP Issued to DBO Teams</td>
<td>October 2011</td>
</tr>
<tr>
<td>Joint Intake Agreement with RD 2035</td>
<td>December 2010</td>
</tr>
<tr>
<td>Water Right Purchase Agreement with CPG</td>
<td>December 2010</td>
</tr>
<tr>
<td>Agreement with UC Davis</td>
<td>December 2010</td>
</tr>
<tr>
<td>Yolo County-Participating Agency</td>
<td>January 2011</td>
</tr>
<tr>
<td>Permitting/Property Acquisition</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Financing/Funding</td>
<td>Ongoing</td>
</tr>
<tr>
<td>DBO Procurement</td>
<td>Ongoing</td>
</tr>
<tr>
<td>Public Outreach</td>
<td>Ongoing</td>
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</tbody>
</table>
## Revised Project Schedule

<table>
<thead>
<tr>
<th>Project Milestone</th>
<th>Current Project</th>
<th>Modified Project</th>
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<tbody>
<tr>
<td>Non-Price Concept Proposals Due</td>
<td>n/a</td>
<td>Apr-12</td>
</tr>
<tr>
<td>Issue Final RFP</td>
<td>Jan-12</td>
<td>Dec-12</td>
</tr>
<tr>
<td>Concept Proposals/Initial Submittals Due</td>
<td>Mar-12</td>
<td>n/a</td>
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<tr>
<td>Initial Submittal Presentations</td>
<td>Apr-12</td>
<td>n/a</td>
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<tr>
<td>Final Proposals Due</td>
<td>Jul-12</td>
<td>Mar-13</td>
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<tr>
<td>Proposal Presentations</td>
<td>Sep-12</td>
<td>May-13</td>
</tr>
<tr>
<td>Recommend Most Favorable Proposer</td>
<td>Oct-12</td>
<td>Jun-13</td>
</tr>
<tr>
<td>Award Contract</td>
<td>Feb-13</td>
<td>Sep-13</td>
</tr>
<tr>
<td>Project Start-Up</td>
<td>May-16</td>
<td>Aug-16</td>
</tr>
</tbody>
</table>
Valley Agencies with Surface/Groundwater Supply Systems

- Redding
- Yuba City
- Sacramento County
- City of Sacramento
- Vacaville
- Lodi
- Stockton
- Tracy
- Roseville
- Lathrop
- Manteca
- Escalon
- Modesto
- Turlock
- Clovis
- Fresno
- Bakersfield
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