Task 2 – Groundwater Management Plan Assessment
Groundwater Management Plans

GWMP Inventory Status:

- 156 Individual Documents
  - 126 Groundwater Management Plans
  - 23 Adjudications
  - 1 Ordinance
  - 6 Other Types
    - Includes 12 pending
- Shapefiles
  - 148, with 8 pending
Groundwater Management Plans

Challenges in collecting plans:

- Identifying Groundwater Management Plans
  - Watermaster Management Plan, Strategic Plan, Water Management Plan, Regional Watershed Management, Basin Optimization Plan
- Relationship between GMPs and Ordinances, Resolutions, and Adjudications
- Plans are not always available on web-sites; requires personal contact which can be time consuming for both parties
Groundwater Management Plans

Challenges in reconciling Shapefiles:

- Plan area not well defined
- Adjudications are not necessarily basin boundaries
  - Legal descriptions
- Outdated plan coverage areas
- Some districts do not maintain their shapefile
- Groundwater Basin versus Watershed or River Basins
Groundwater Management Plan Assessment

- GWMPs Assessed for...
  - CWC 10753.7 (SB 1938) Required Components
  - CWC 10753.8 (SB 1938) Voluntary Components
  - Bulletin 118-03 Suggested Components
- Finished 110 of 126 GMP assessments
- For this presentation, we focused only on the Required Components and the related ACWA survey responses
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ACWA Survey

- 61 Survey Respondents
- Questions relating to:
  - Agency Information
  - Groundwater Management Plans
    - Key components that are being implemented
    - Factors that limit success
    - Long term sustainable and reliable groundwater
  - Groundwater Banking Activities
  - CASGEM Participation
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### Groundwater Content Enhancement

### Groundwater Management Plan Assessments

<table>
<thead>
<tr>
<th>GWC § 10753.7 et seq. Required Components</th>
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<tbody>
<tr>
<td><strong>Barren Management Objectives</strong></td>
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<td>1</td>
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<td>The plan shall include components relating to the monitoring and management of groundwater levels within the groundwater basin, groundwater quality degradation, infiltration and surface subsidence, change in surface flow and surface water quality that directly affect groundwater levels or quality or are caused by groundwater pumping in the basin. (A) A description of how recharge areas defined in the plan substantially contribute to the replenishment of the groundwater basin.</td>
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<tr>
<td>GWMP Assessment</td>
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<td>Supporting Poewr/Water</td>
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<td>AOWA Survey Response</td>
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<td>GWMP Assessment</td>
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GWMP Required Components Assessment, CWC 10753.7

1. Basin Management Objectives
2. Agency Cooperation
3. Map
4. Recharge Area (as of 1/1/13)
5. Monitoring Protocols
6. GWMPs Outside of a Groundwater Basin
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Basin Management Objectives

GWMP Assessment - 110 Plans

- 35% No
- 59% Yes
- 6% Partial

ACWA Survey - 52 Responses

- 85% No Response
- 15% Partial
Agency Cooperation

GWMP Assessment - 110 Plans Assessed
- No: 7%
- Yes: 82%
- Partial: 11%

ACWA Survey - 52 Responses
- No Response: 31%
- Yes: 69%
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Map

GWMP Assessment - 110 Plans Assessed
- 73% No
- 16% Yes
- 11% Partial

ACWA Survey - 52 Responses
- 75% Yes
- 25% No Response
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Recharge
*(will be assessed after Jan, 1, 2013)*

ACWA Survey - 47 Responses

- No: 53%
- No - Future Addition: 23%
- No - No Future Plans: 9%
- No Response: 4%
- Yes: 11%
Monitoring Protocols

GWMP Assessment - 110 Plans Assessed

- No: 9%
- Yes: 50%
- Partial: 41%

ACWA Survey - 52 Responses

- No Response: 33%
- Yes: 67%
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GWMP Outside of Basin

GWMP Assessment - 110 Plans Assessed
- 92% N/A
- 8% Yes

ACWA Survey - 25 Responses
- 92% N/A
- 8% Yes
ACWA Survey - Other Questions

- What Key components are currently being implemented by each agency?

- What are the factors that are limiting the successful development of sustainable groundwater management?
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Key Components of local groundwater management being implemented by each agency

- Data collection: 96%
- Sharing information: 92%
- Outreach: 87%
- Common interest: 87%
- Stakeholder participation: 79%
- Storage and conveyance: 74%
- Surface water supplies: 72%
- Funding: 72%
- Water budget: 64%

56 survey respondents
Factors Limiting The Successful Development of Sustainable Groundwater Management

46 Survey respondents

- Limited Funding: 50%
- Physical Limitations: 20%
- Limited Data and Analysis: 13%
- Groundwater Policy: 10%
- Public Involvement: 7%
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Questions?