Borrego Valley Groundwater Basin
Borrego Springs Subbasin
Municipal Allocations

Projects and Management Actions

Project #2:
Water Conservation and Efficiency

Save Our Water

March 29th, 2018
Projects and Management Actions
Project #2: Water Conservation and Efficiency

**Potential Water Savings & Cost**
- Preliminary, high level examples based on historical water usage and practices
- Each potential project will be evaluated by cost, benefit, and feasibility
- Conservation measures could easily amount to 25% of the estimated sustainable yield of the Borrego Springs Subbasin

<table>
<thead>
<tr>
<th>Sector</th>
<th>Potential Savings:</th>
<th>Approximate Cost: (per AFY/over 25 years)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Agriculture (Irrigation Efficiency)</td>
<td>264 AFY</td>
<td>$382</td>
</tr>
<tr>
<td>Municipal (Outdoor)</td>
<td>315 AFY</td>
<td>$339</td>
</tr>
<tr>
<td>Municipal (Indoor)</td>
<td>84 AFY</td>
<td>Variable</td>
</tr>
<tr>
<td>Recreation (Golf Courses)</td>
<td>674 AFY</td>
<td>$128 - $329</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>1,337 AFY</strong></td>
<td><strong>$128 - $382</strong></td>
</tr>
</tbody>
</table>
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Project #2: Water Conservation and Efficiency

- Benefits of Comprehensive Conservation Program
  - Reduction of water use and ensured water reliability and affordability
  - Consistency with California Water Policy
  - Increased awareness of a critical resource
  - Customer participation and ownership
  - District commitment to efficient water use and Subbasin management
  - Municipal and recreational water use will be an increasingly larger percentage of overall water use as sustainability measures are implemented
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- Existing and Historical Conservation Programs
  - Incentivized water rate structure
  - Rebate Programs for water fixtures and appliances
  - Turf replacement with xeriscape (limited implementation)
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Project #2: Water Conservation and Efficiency

Water Savings Potential by Sector

Agriculture
Municipal
Recreation
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- **Agricultural Sector**
  - Modification of Irrigation systems and operations
  - Crop types
  - Irrigation Audits – Report with recommendations
    - Potential Water Savings: Dependent on extent of utilization and degree of implementation
    - Possible Funding Sources: RCD, grants, land owner
  - Potential Savings (for citrus only)
    - 264 AFY
    - $382/AFY over 25 years
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- Municipal Sector (Outdoor)
  - 75% of water use is outdoors
  - Potential programs:
    - HOA Landscape Reductions
      - Potential water savings: 66 AFY
      - Approximate cost of water saved: $339/AF over 25 years
    - HOA Irrigation Efficiency Improvements
      - Potential water savings: 26 AFY
      - Approximate cost water saved: $1,200/AFY over 25 years
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- Municipal Sector (Outdoors)
  75% of water use is outdoors
  - Other programs
    - Landscape Irrigation Audits
    - Smart Irrigation Controllers
    - Landscape Watering Calculator
    - Watering Index
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- Municipal Sector (Indoor) 20% of water use is indoors

• Greywater Systems
  - Potential water savings: 40 gallons/person/day
  - 30% less fresh water used on landscape
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Project #2: Water Conservation and Efficiency

- **Recreational Sector**
  - Main Potential is for golf courses
  - Potential Program:
    - Conversion of turf to native landscaping
      - Potential water savings: 471 AFY
      - Approximate cost of water saved: $128/AF over 25 years
    - Irrigation System Management
      - Potential water savings: 203 AFY
      - Approximate cost: $329AFY over 25 years
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Project #2: Water Conservation and Efficiency

- Other Conservation Actions
  - Dedicated Conservation Coordinator
  - Conservation Webpage
  - California Water Efficiency Partnership
  - School Education Programs
  - Materials provided in Spanish