Lower Santa Cruz River Basin Study

Adaptation Strategies Workshop Discussion

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LSCR Basin Study Overview

Four Required Elements

Step 1: Project future supply & demand imbalances (without adaptation measures)

Step 2: Evaluate risks to infrastructure and other systems

Step 3: Develop and investigate adaptation strategies (structural and non-structural)

Step 4: Perform trade-off analysis of strategies
Study Timing

- GW Model results for “worse case” scenario will be presented in mid-October.
- All scenario products will be available in January, 2020.
- How can we complete study by September, 2020?

**Suggestion:** Hold initial workshop to develop adaptation strategies for worse case scenario in November, 2019.

- Hold a second workshop in January, 2020 to:
  - Refine adaptation strategies from November workshop.
  - Address outcomes of scenarios not covered by “worse case” scenario strategies.
Suggested Workshop Format

• Approximately 9:30 am to 3:30 pm
• Lunch served in-house (partner contribution)
• Professional facilitator(s) will run workshop

• Strategies to be described using a consistent form for relevant information
• Form to be distributed ahead of time
• Begin workshop by reviewing adaptation objectives as a group
• If sufficient attendees, break up into small groups for brainstorming
• Participants should provide information necessary to model impact on groundwater levels
• Possible initial screening at end of workshop
Example information

• Project Sponsor
• Description, especially volume(s) of water involved
• Location
• Start Date, End Date

• How would project impact gw pumping or recharge in the TAMA?

• Reclamation personnel must be able to develop strategy-specific MODFLOW files in order to model effects on groundwater levels

• Projects outside GW model boundaries may be able to be modeled in other ways
## Tentative Dates

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<th>Groundwater Modeling Product Development</th>
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<tr>
<td><strong>Worse Case Scenario Presentation</strong> – <strong>mid-October, 2019</strong></td>
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<tr>
<td><strong>All Scenario Products Presentation</strong> – <strong>January, 2020</strong></td>
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<th>Adaptation Strategy Development</th>
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<tr>
<td><strong>1st Strategy Development Workshop</strong> – <strong>November, 2019</strong></td>
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<td><strong>2nd Strategy Development Workshop</strong> – <strong>January, 2020</strong></td>
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<tr>
<th>Analysis of Adaptation Strategies</th>
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<tr>
<td><strong>Initial Analysis (Worse Case Scenario Strategies):</strong> <strong>Nov. 2019 – Jan. 2020</strong></td>
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<td>Refinement of worse-case scenario strategies; <strong>Initial Analysis (other scenarios):</strong> <strong>January – March 2020</strong></td>
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<th>Trade-off Analysis</th>
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<td>Development of Trade-off Criteria <strong>Fall 2019 to March 2020</strong></td>
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<td>Trade-off Analysis: <strong>March, 2020</strong></td>
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Comments?  Suggestions?