

GSP Sustainable Management Actions Modeling Scenarios

MAY 2, 2019

GSP Sustainable Management Action Modeling Scenarios

➤ WRM Review and Update

WRM Review – Modeling Scenarios

- Coordination of Technical/Legal Allocation Groups
- Impasse in March/April – Factors
- WRM concerns at April TAC Meeting
- Suspension of Attorney's Allocation and Modeling Ad Hoc

WRM Review – Impasse Factors

- Need to Maximize Conservation of Basin Storage
- Uncertainty of Imported Water/Replacement of Storage
- Owens Valley – LADWP: Opposition is more likely if imported water is used to support agriculture
- Potential Irreversible Loss of Basin Storage
 - High cost of replacement water
- Reserve Storage Needed for Potential Base Demand Increase (Emergency)
- Actual and Potential Impacts to Shallow Wells, Water Quality, Pumping Costs and Subsidence
- IF AG Must Fallow – Why Allow Removal of Reserve Water Supply?

WRM Review – Minimum Water Uses

➤ Estimated “Basic Health and Safety” Plus Navy Exceeds 7,650 AFY

➤ Current “Domestic Only” Plus Navy Uses (2016)

• Navy	2,041 AFY
• IWVMD	6,412 AFY
• De Minimis	800 AFY
• Domestic Mutuals	300 AFY
• Inyokern	102 AFY
• City	373 AFY
• Searles/Trona	225 AFY
	10,253 AFY (Deficit ~2,600 AFY)

➤ Navy Reserved Rights Extended Off-Base Exceeds 7,650 AFY

WRM Update - Model Run No. 3

(Discussion/White Paper Basin Management)

➤ Start of Management Action – January 2022

➤ 2022: Total Pumping 28,600 AF

➤ 2022 through 2029: Total Annual Pumping ~28,600 AFY

➤ 2030 through 2039 (10 years): Reduce Pumping By Equal Increments Each Year to Reach 7,650 AFY

➤ 2039 through 2070: Total Annual Pumping 7,650 AFY

➤ Evaluate Impacts to Water Levels, Water Quality, Shallow Wells and Loss of Basin Storage

WRM Update - Model Run No. 4 (*Coordinated AG Pumping with Allocation Transfers*)

- Start of Management Action – January 2022
- 2022: Pumping Includes Reduced Pumping for Unprotected Allocation Plus Protected Pumping
- 2023 through 2027: Unprotected Allocations Reduced by Equal Increments Each Year for Total Pumping of ~12,000 AFY in 2027
- 2025: Recycled Water is available to help reduce overdraft
- 2028 through 2070: Total Annual Pumping of ~12,000 AFY
- 2035 through 2070: Total Pumping is Augmented by Imported Water Supply for basin to be sustainable
- Evaluate Impacts to Water Levels, Shallow Wells and Loss of Basin Storage

WRM Update – Model Run No. 5 (*Immediate Action on Pumping Reduction*)

- Start of Management Actions – January 2022
- Negotiate/Fallow All AG Pumping to Zero
- Searles to Find New Supply-Recycle Water?
- Total Annual Pumping 2022 through 2034: ~10,000 AFY
 - Includes IWVWD, Navy, De Minimis, Domestic Mutuals, Inyokern, City and Searles/Trona.
- 2025: Recycled Water is available to help reduce overdraft
- 2035 through 2070: Total Pumping is Augmented by Imported Water Supply for basin to be sustainable
- Evaluate Impacts to Water Levels, Shallow Wells and Loss of Basin Storage.