ATTACHMENT A
OPTIMIZATION OF PROPOSALS

This attachment contains the optimizations that staff and/or contractors recommend for certain proposals. The proposals are numbered to correspond with the numbering in Attachment B, "LIST OF PROPOSALS AND DESCRIPTION" immediately following.

PROPOSAL	PROPOSAL ELEMENT MODIFIED	RECOMMENDED OPTIMIZATION	REASON
1. Southwest New Mexico Regional Supply System Proposal	1. Store AWSA water in Mogollon Creek 2. Store AWSA water in Mangas Creek	1. Consider Spar and Winn canyons instead of Mogollon Creek canyon 2. Consider other storage locations instead of Mangas Creek Canyon. 3. Consider means to efficiently combine the SWNM Regional Supply System with the GBIC and Hidalgo County Diversion and Storage proposals	1. Storage in Mogollon Creek poses conflicts with AWSA 2. Mangas Creek contains endangered species populations 3. Cost savings
2. Gila Basin Irrigation Commission Diversion and Storage Proposal	1. Store AWSA water in off river ponds (on-farm storage)	1. Remove on-farm storage option	1. No adequate acreage available
3. Hidalgo County Off-Stream Proposal	1. Storage in Schoolhouse Canyon	1. Consider other storage locations instead of Schoolhouse Canyon	1. Schoolhouse canyon has numerous geologic faults
8. Catron County Watershed Proposal	1. Ditch improvements	1. Evaluate ditch improvements separate from watershed restoration elements	1. Evaluation of combined ditch and watershed projects cannot be equated with evaluations of discrete ditch projects
6. Deming Effluent Re-Use	1. Install 16" diameter PVC trunk line.	1. Utilize 10" and 16" diameter trunk line	1. Cost savings
4. Grant County Water Commission Effluent Re-Use Well-Field and Pipeline	1. Tanks : 2 @ 825,000 gal, 1 @ 250,000 gal, 1 @ 3 million gal 2. Pipeline material HDPE and iron, 16"	1. 1 Tank @ 850,000 gal 2. Pipeline material PVC, 16" diameter 3. Well-field with two wells	1. Additional tanks not needed 2. Permits improved water conveyance 3. Two wells suffice to furnish

	diameter 3. Well-field with 4 wells 4. 2 Booster stations	4. 1 Booster station	proposed water supply and only two wells in application to OSE. 4. Single booster station suffices
5. Grant County Effluent Re-Use and Reservoir	1. Construct a dam and reservoir filled with effluent from the Bayard WWTP 2. Refurbish spring boxes in Cameron, refurbish water tanks at Ft. Bayard, refurbish water lines at Ft. Bayard, water the ball field in Bayard, build pipeline from Bayard to Santa Clara, build pipeline from Bayard to Ft. Bayard, dump water to creek bed for infiltration	1. Fill the reservoir with AWSA water conveyed through the Deming Regional Water Supply System 2. Remove: refurbish spring boxes in Cameron, refurbish water tanks at Ft. Bayard, refurbish water lines at Ft. Bayard, water the ball field in Bayard, build pipeline from Bayard to Santa Clara, build pipeline from Bayard to Ft. Bayard, dump water to creek bed for infiltration	1. Bayard effluent not available 2. No longer needed

ATTACHMENT B
LIST OF PROPOSALS AND DESCRIPTION

Proposal	Description
1. Southwest Regional Water Supply System	AWSA water would be diverted from the Gila River, stored in off-stream storage in the Cliff-Gila Valley, released from storage for environmental needs and piped to communities in the Mimbres Basin. AWSA funding sought: $109M. [The Gila Basin Irrigation Commission, and Hidalgo County have indicated a single diversion and storage system integrating their proposals with the Southwest Regional Water Supply System is preferable.]
2. Gila Basin Irrigation Commission Diversion and Storage Proposal	AWSA water would be diverted from the Gila River, stored in off-stream storage in the Cliff-Gila Valley, or in aquifers, released from storage for environmental and agricultural needs in the Cliff-Gila Valley. AWSA funding sought: $10.233M (should be increased by 25% to reflect current costs, and some significant costs such as land acquisition, are not included)
3. Hidalgo County Diversion and Storage Proposal	AWSA water would be diverted from the Gila River, stored in off-stream storage in the Cliff-Gila Valley, or in aquifers, released from storage for environmental and agricultural needs in the Virden area. Construction of a small off-stream storage near Virden to capture AWSA water. AWSA funding sought: $115M
4. Grant County Water Commission Infrastructure and Re-Use Proposal	Effluent from Silver City's WWTP would be infiltrated to the aquifer and re-charge credits for that water, if so approved by the State Engineer, would be used to withdraw water from a well field near the Grant County airport, if so permitted by the State Engineer, then pumped to supply water to communities in the Mining district near Silver City and to Silver City. AWSA funding sought: $30.123M capital (Grant County Water Commission would seek 50% from other sources) + 733K annual costs
5. Grant County Effluent Re-Use and Reservoir Proposal	Treated effluent from the Bayard WWTP would be pumped to a reservoir for recreation (swimming and fishing) near Ft. Bayard, and work done to refurbish spring boxes in Cameron creek, refurbish water tanks at Ft. Bayard, refurbish water lines at Ft. Bayard, water the ball field in Bayard, build pipeline from Bayard to Santa Clara, build pipeline from Bayard to Ft. Bayard, dump water to creek beds for infiltration. AWSA funding sought: ~~$670K~~ 10.7 m
6. Deming Effluent Re-Use Proposal	Treated effluent from the Deming WWTP would be piped to irrigate parks and ball fields in Deming. AWSA funding sought: $4.484K
7. Bayard Effluent Re-Use	Treated effluent from the Bayard WWTP would be piped to irrigate parks and ball fields in Bayard. This proposal was withdrawn by Bayard.

8. Catron County Watershed Improvement	Tree-thinning and restoration of forest areas damaged by recent wildfires (80,369 acres), improvement of ditch diversions and ditches, construction of small storage ponds. No use of AWSA water is proposed. AWSA funding sought: $12.09M
9. NMSU Watershed Improvement	A paired basin study of tree-thinning treatments. AWSA funding sought: $2.170
10. NMFIA watershed Improvement	A paired basin study of tree-thinning treatments combined with some tree-thinning. AWSA funding sought: $2.270M
11. Grant Soil and Water Conservancy Watershed Improvement	Tree thinning (4,022 acres) and study of water savings. AWSA funding sought: $1.275M
12. US Forest service Watershed Proposal	Tree thinning (105,000 acres) in the Bear Fire and Snow Lake areas of the National Forest. AWSA funding sought: $3.63M + "20% of any other AWSA projects funded on US Forest service lands."
13. Luna Ditch Improvements	Ditch linings and improvements in a ditch from a reservoir in Arizona to Luna Ditch, improvements to the Luna Ditch diversion, and improvements to laterals. AWSA funding sought: $1.363M
14. Pleasanton Ditch Improvements	Ditch lining. AWSA funding sought: $900K (uncertain estimate)
15. Sunset/New Model Ditch Improvements	Ditch linings. AWSA funding sought: $18.007M
16. Gila Conservation Coalition Municipal Conservation	Municipal Conservation Measures. AWSA Funding Sought: $10.862M The Commission Has Allocated $100,000 To Pilot Conservation Proposals In Deming and Silver City.