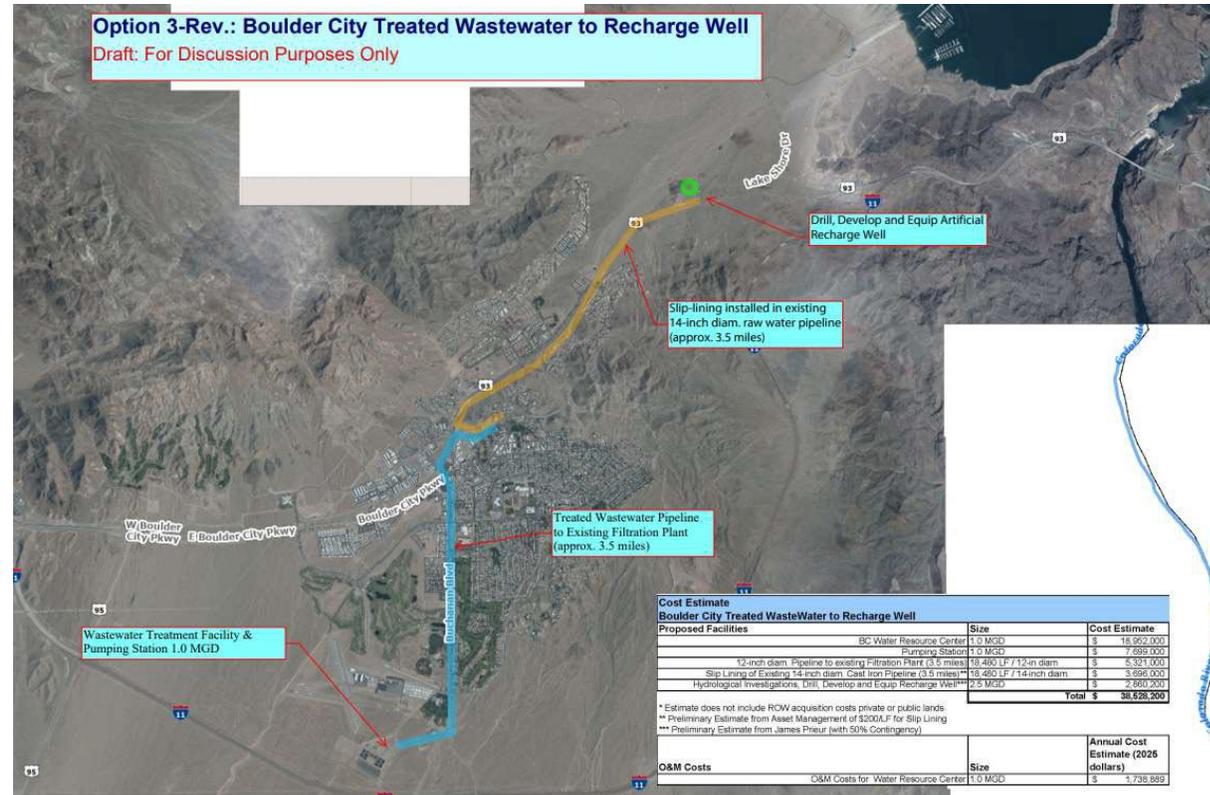


3 RETURN TO LAKE MEAD VIA RECHARGE WELL



Key System Components:

- Wastewater Treatment Facility and Pumping Station (1 MGD capacity)
- Treated Wastewater Pipeline to existing filtration plant (~18,000 linear feet)
- Installation of lining to existing 14" raw water pipeline (~3.5 miles)
- Artificial Recharge Well



From SNWA

www.bcnv.org

3 RETURN TO LAKE MEAD VIA RECHARGE WELL

KEY CONSIDERATIONS



- Provides 100 percent utilization of treated effluent
- Requires wastewater treatment plant upgrade/replacement (improved effluent quality for release)
- Will require special dispensation from Bureau of Reclamation to receive return flow credits
- Allows potential repurposing of existing raw water distribution network as potable system back-up
- Does not require operating agreements with other local municipalities

3

RETURN TO LAKE MEAD VIA RECHARGE WELL

COSTS

Cost Estimate Boulder City Treated WasteWater to Hoover Dam		
Proposed Facilities	Size	Cost Estimate
BC Water Resource Center	1.0 MGD	\$ 18,952,000
Pumping Station	1.0 MGD	\$ 7,699,000
12-inch diam. Pipeline to existing Filtration Plant (3.5 miles)	18,480 LF / 12-in diam	\$ 5,321,000
Slip Lining of Existing 14-inch diam. Cast Iron Pipeline (7.0 miles)**	36,960 LF / 14-inch diam.	\$ 7,392,000
Total		\$ 39,364,000

* Estimate does not include ROW acquisition costs private or public lands

** Preliminary Estimate from Asset Management of \$200/LF for Slip Lining

O&M Costs	Size	Annual Cost Estimate (2025 dollars)
O&M Costs for Water Resource Center	1.0 MGD	\$ 1,738,889

RETURN TO LAKE KEY POINTS



- SNWA has agreed to pay up all capital costs beyond \$26M
- \$13,364,000 estimated capital costs saved by Boulder City
- Additional certifications needed for operators (Grade 3)
- NPS and BC to switch to potable from existing raw irrigation
- Existing main raw line could be repurposed to potable