

Agenda

1. Out of Valley Water Use Policy
2. Return Flow Credits- "Easy" Way
• CNLV Garnet Valley Sewer Infrastructure
3. Out of Valley Reuse- "Not so Easy" Way
• Boulder City Effluent Reuse Evaluation
• Southern Nevada Supplemental Airport
4. What's Next
5. Meet the SNWA Experts
6. Questions



May 2017- OOV Water Use Policy

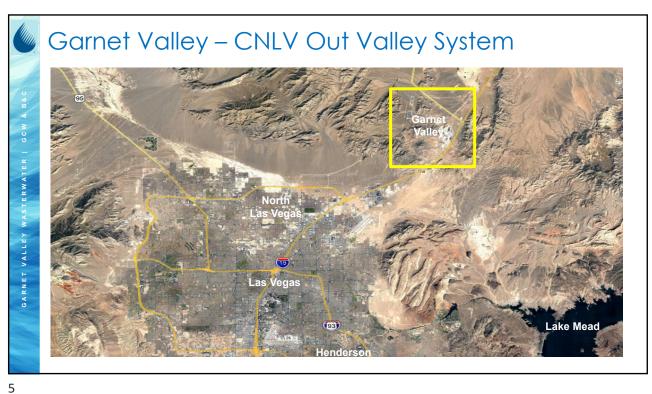
- Return Flow Credits- Priority
- IRPAC 2020- Limit Consumptive Use Out Valley Areas
- Recognizes the Hurdles of Out Valley Area Returns
- Studies of Practical Return or Reuse Options
 - Direct and Indirect Use Review
 - Schedule of Approvals
 - **Cost Comparisons**

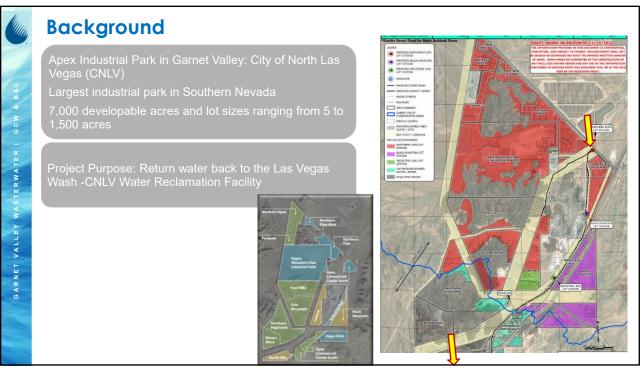
SOUTHERN NEVADA WATER AUTHORITY BOARD OF DIRECTORS AGENDA ITEM

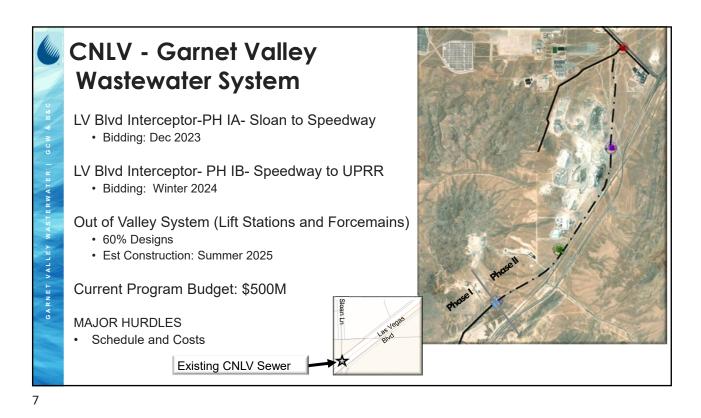
May 18, 2017		
Subject: Out of Valley Water Use Policy	Director's Backup	
Petitioner: David L. Johnson, Deputy General Manager, Engineering/Operations		
Recommendations: That the Board of Directors adopt a policy for water used outside the Las	Vegas Valley.	

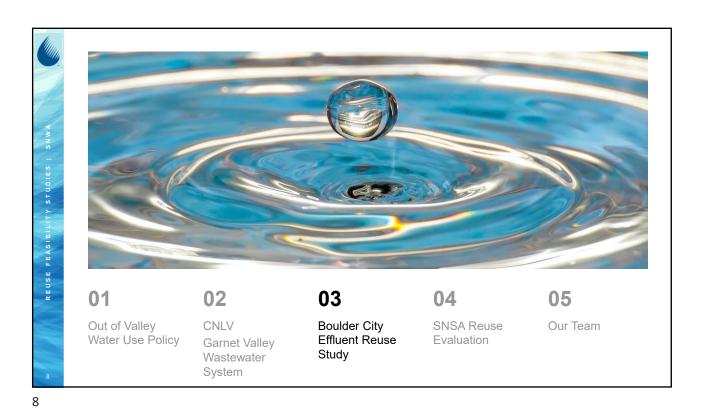
This action is authorized pursuant to Section 6(p) of the SNWA 1995 Amended Co Agreement. The office of the General Counsel has reviewed and approved this item.













Boulder City Effluent Reuse

- Ex Treatment Plant
 - Evaporative Ponds
- Ex 2 MGD WW Flows
- Reclaimed Water Potential
 - Existing Golf Courses

MAJOR HURDLES

Permitting and Costs

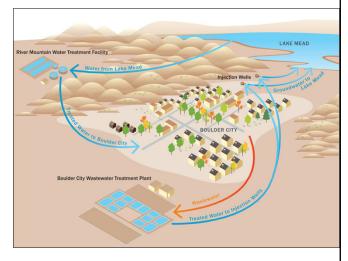


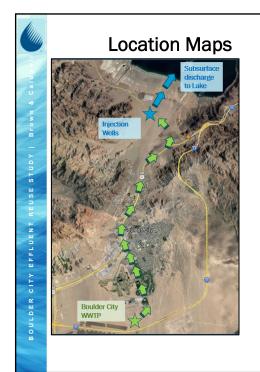
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Concept #1- Injection Wells

Return Flow Credits:

- Convey treated effluent to Hemenway Wash
- Inject into aquifer via wellfield where subsurface flow will return water to Lake Mead





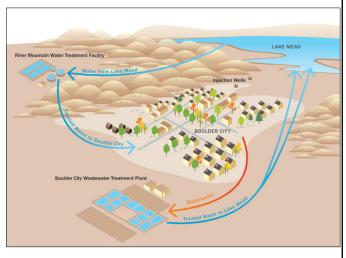


JLDER CITY EFFLUENT REUSE STUDY | Brown & Caldidit

Concept #2 – Direct Surface Discharge

Return Flow Credits:

- Convey treated effluent via pipelines
- Direct surface discharge to Lake Mead
 - Channel
 - Pipeline with diffuser





SNSA Evaluations Non-potable Reuse (NPR) Indirect Potable Reuse (IPR) via groundwater recharge/recovery Direct Potable Reuse (DPR) Phased Approach - NPR to DPR MAJOR HURDLES Permitting/Regulations/Schedule

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Progress Update

- Overall Project Schedule: 8/22/2023 – 5/8/2024
- Task 3 Alternatives Development
 - Reuse alternatives development (up to four alternatives)
 - Brine management strategy
 - · Cost analysis
- Task 4 Alternatives Analysis
 - Alternatives analysis (using agreed upon criteria and weighting factors)
 - · Draft and Final Alternatives Summary Report



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What's Next?

- Cost Estimating
- NDEP Coordination
- Phasing Strategies
- Agency Coordination





