Lake Granger ASR

Agenda Item 6.8.1

April 15, 2015

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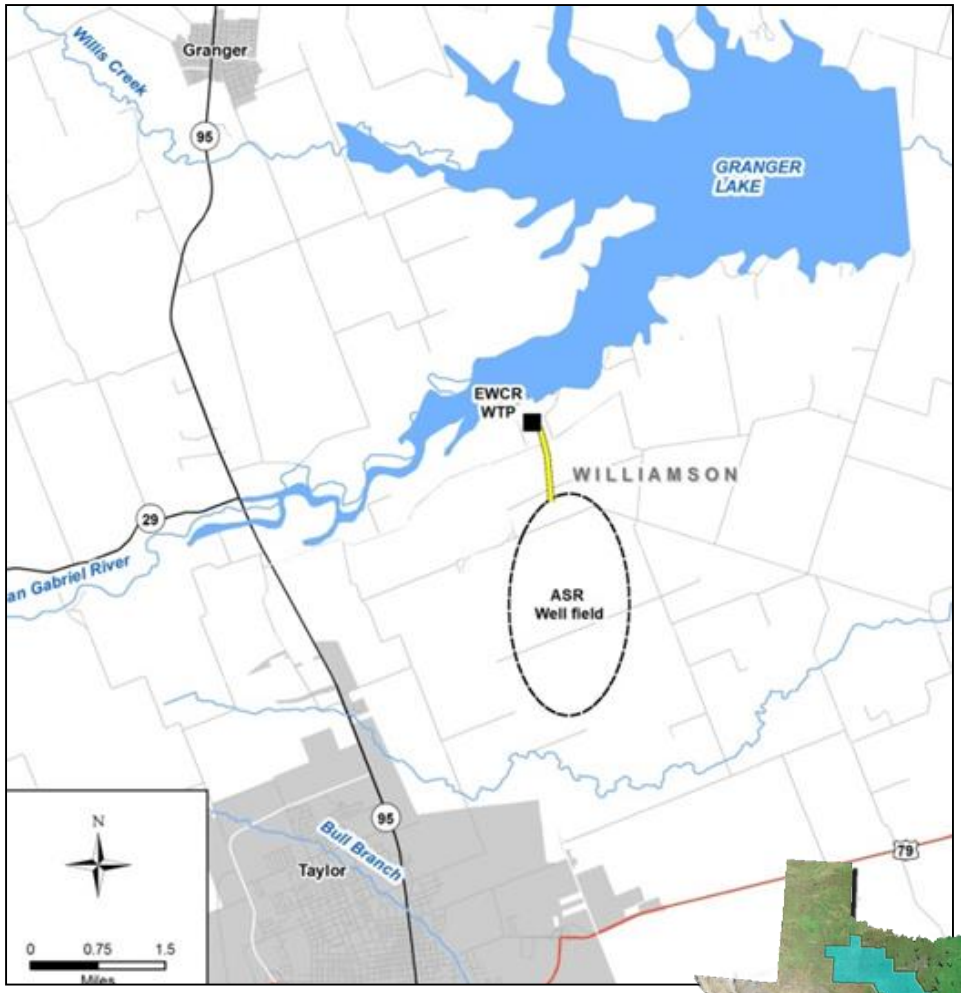
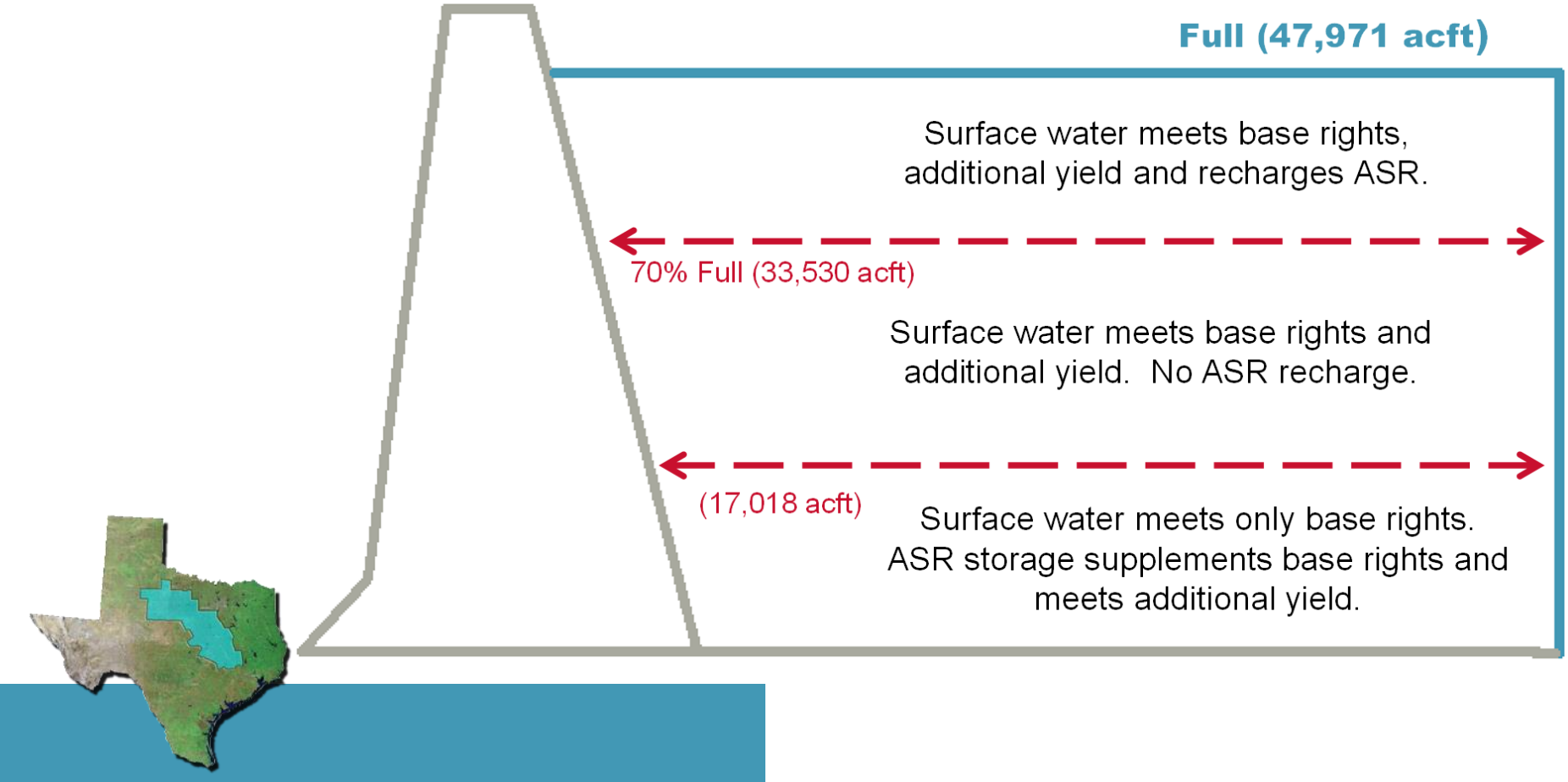
Lake Granger ASR Project

- Water Source: Lake Granger
- Storage Aquifer: Trinity Aquifer
  (Capped at 65,000 acft)
- Treatment: Expansion of EWCRWTP
- Annual Capacities:
  - Base Rights 17,018 acft/yr firm yield
  - Additional Rights: 9,050 acft/yr
- Facilities:
  - 5 ASR Wells
  - 10 Additional Recovery Wells (Phases 2,3)
  - Connection Pipeline
  - 1.4 mile Transmission Pipeline
  - Treatment Plant Upgrade

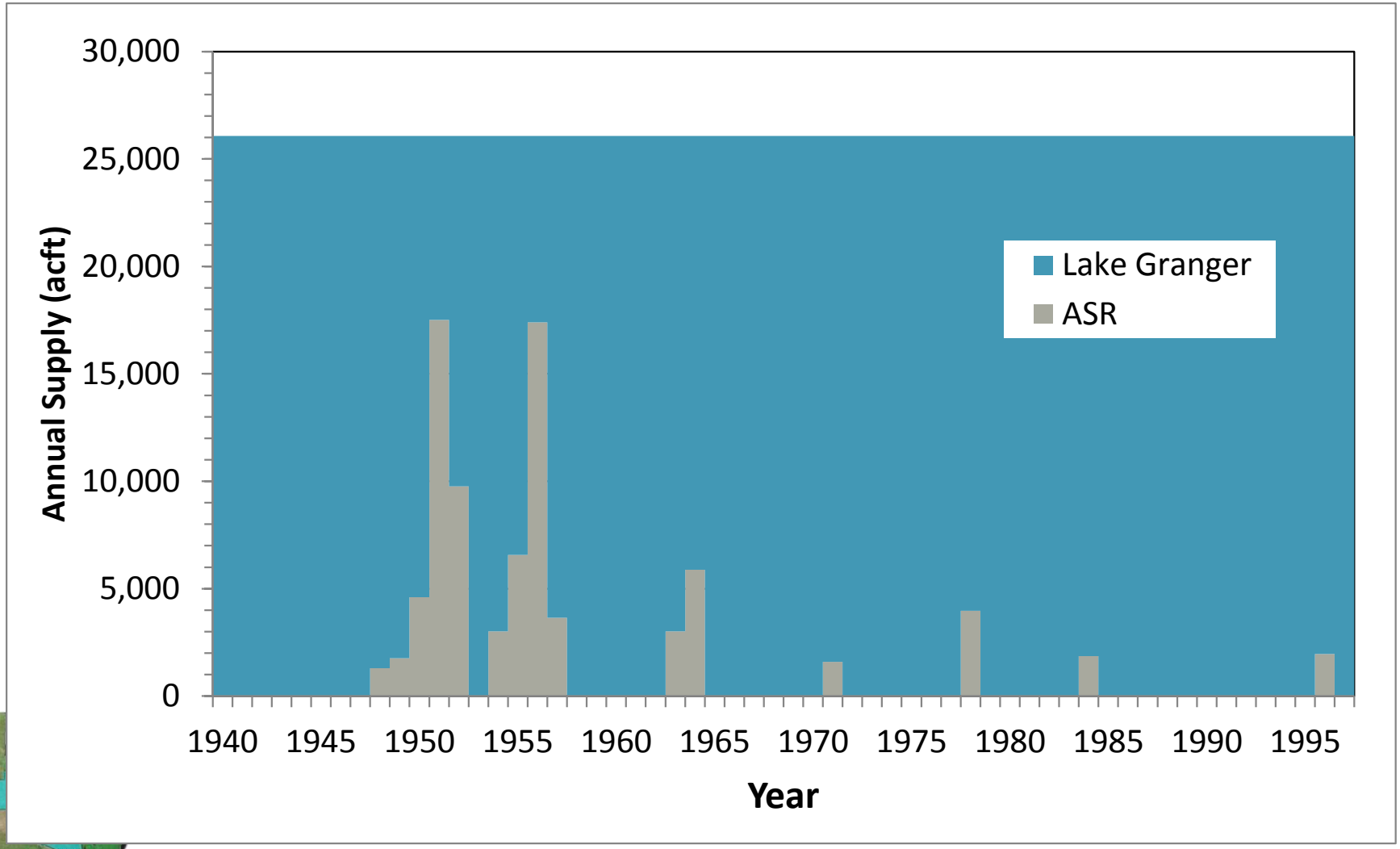


Operational Concept

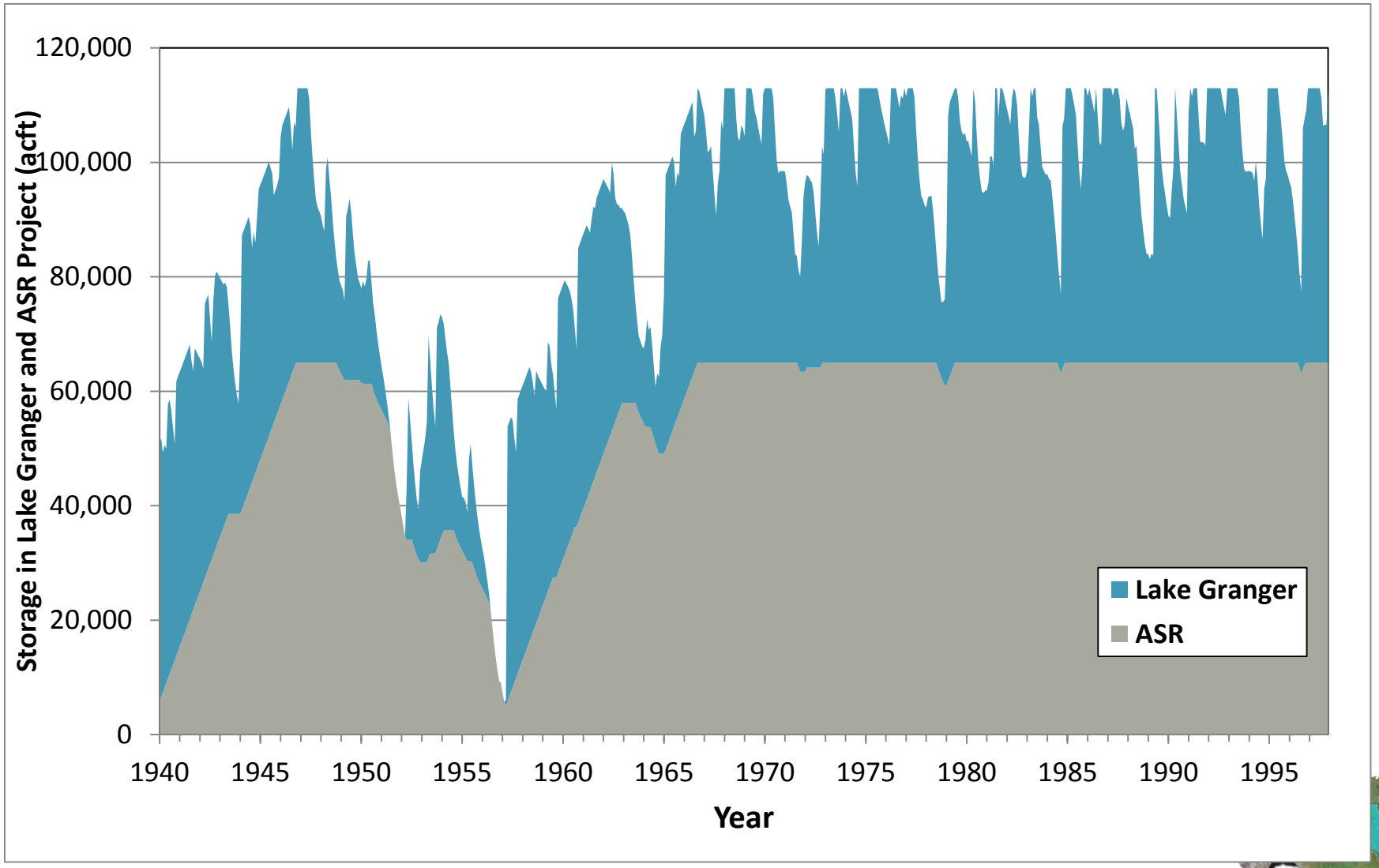
- Utilize existing surface water rights (base rights) in Lake Granger
- Provide additional firm supply of 9,050 acft/yr for East Williamson County
- Install and operate ASR well field to support additional firm supply



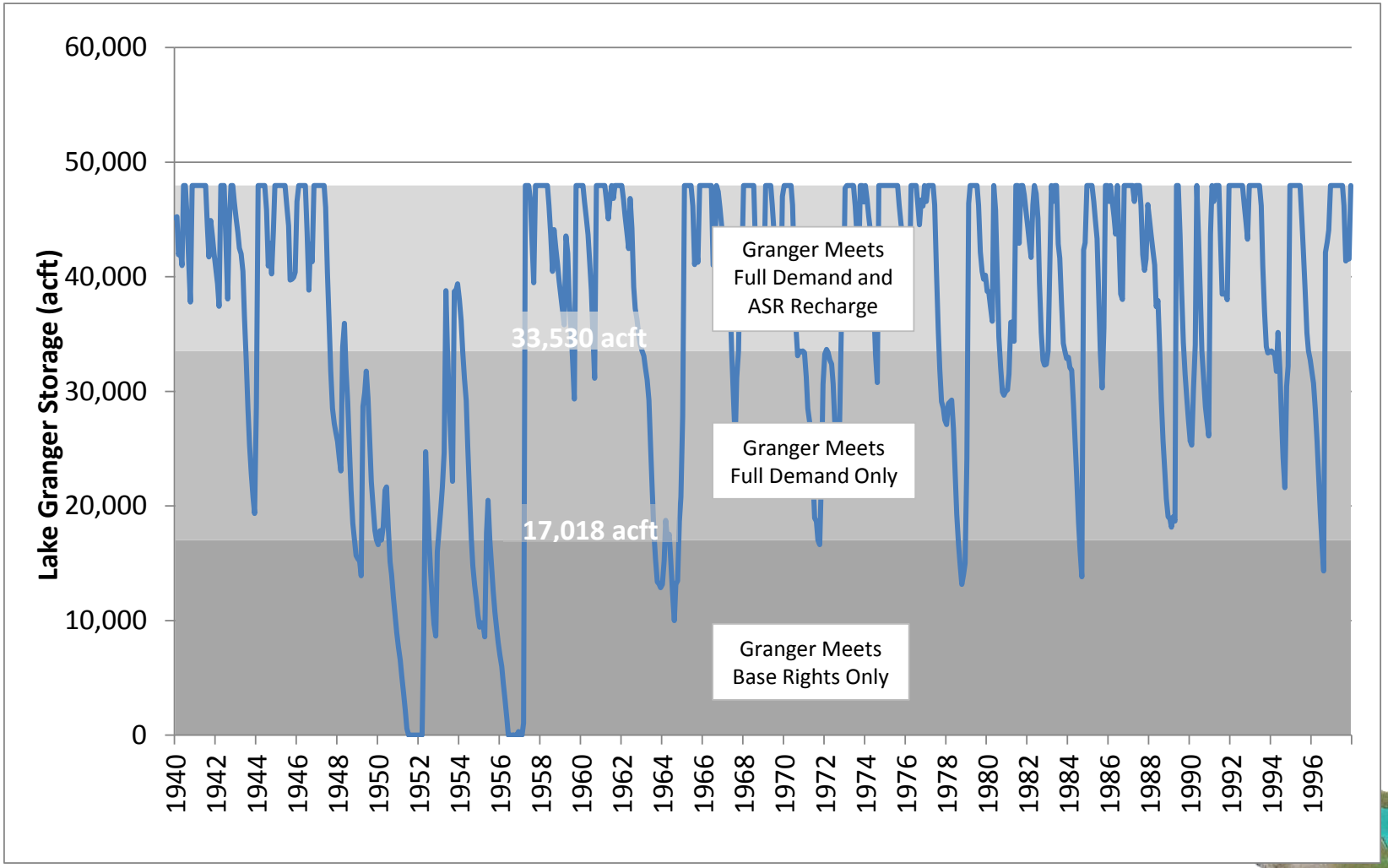
Sources of Supply



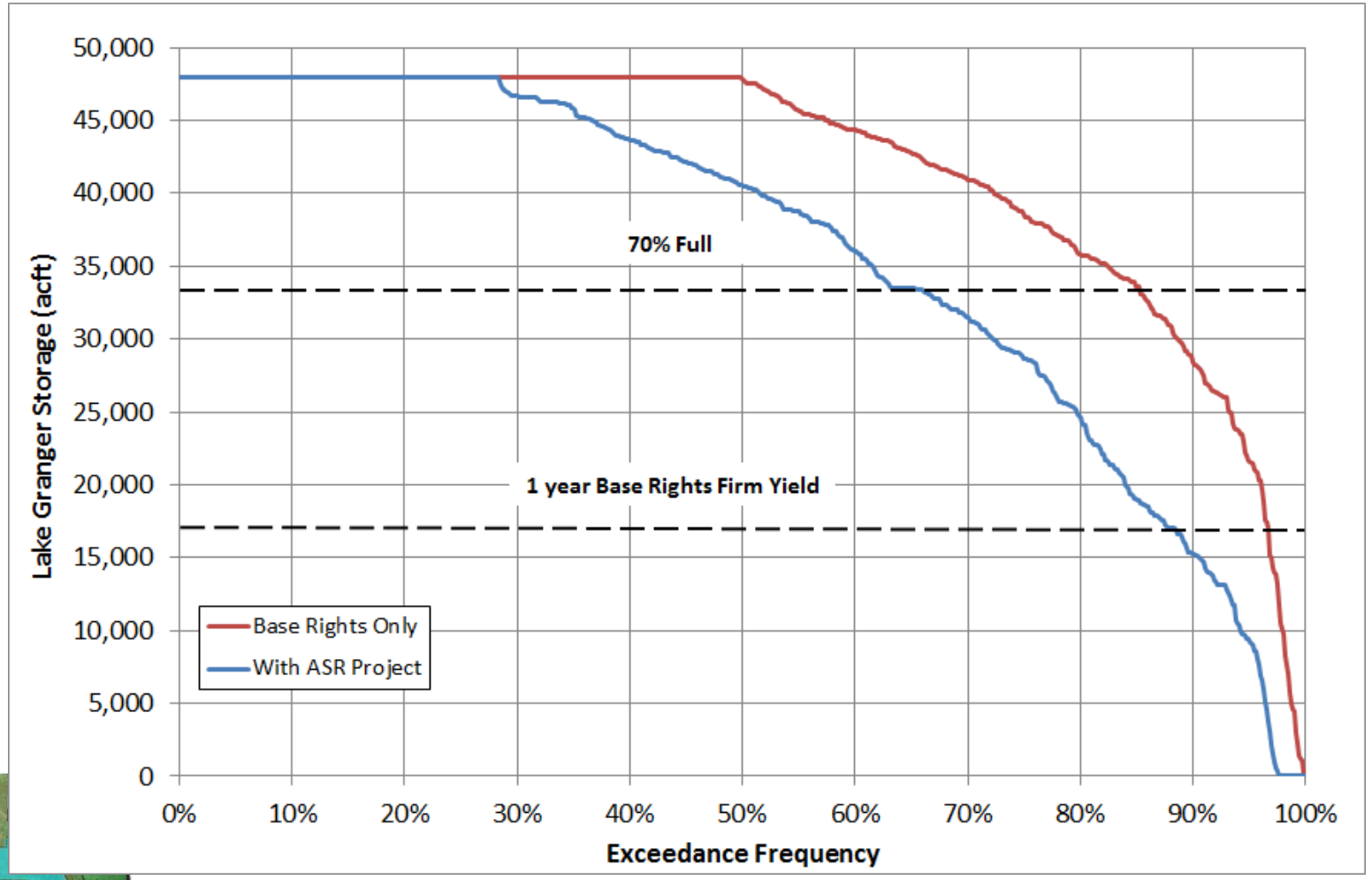
Combined System Storage under Proposed Operation



Lake Granger Storage



Lake Granger Storage



Costs

Cost	Phase 1	Phase 2*	Phase 3**
Wells and Collection Piping	$14,997,000	$14,544,000	$14,544,000
Other Costs	$27,120,000	$0	$0
TOTAL CAPITAL	**$42,117,000**	**$14,544,000**	**$14,544,000**
TOTAL PROJECT	**$59,060,000**	**$20,380,000**	**$20,380,000**
Debt Service	$4,942,000	$6,647,000	$8,352,000
O&M	$2,762,000	$2,907,000	$3,052,000
Other (Power/wells)	$170,000	$226,000	$282,000
Total Annual	**$7,874,000**	**$9,780,000**	**$11,686,000**
Total Project Yield (acft/yr)	9,050	9,050	9,050
Annual Unit Cost ($ per acft)	$870	$1,081	$1,291
Annual Unit Cost ($ per 1000 gal)	$2.67	$3.32	$3.96

* Phase 2 assumed to be built within 10 years from Phase 1
**Phase 3 assumed to be built within 15 years of Phase 1

Questions/Discussion