



GBA Coordinating Committee Meeting

August 12, 2009 10:30 a.m.

California Water Service Company, Conference Room
1602 East Lafayette Street, Stockton, California

----- Agenda Topics -----

- A. Follow-up on Release of Eastern San Joaquin Integrated Conjunctive Use Program Draft Program Environmental Impact Report and Next Steps – Brandon Nakagawa and Mel Lytle
- B. Update on Prop 84 and other State & Federal Funding Opportunities – Brett Wyckoff and Mel Lytle
- C. Discussion on IRWMP Program Project List (See Attached) – Mel Lytle
- D. Update on NSJWCD Project Funding and Development Activities – Ed Steffani and Brandon Nakagawa

Future Agenda Items:

- IRWMP Action Items and Update Activities
- Prop 84 Bond Funding Discussions and AB 1420 Compliance
- Groundwater Basin Recharge and Banking Operations Discussions

The next regularly scheduled GBA Coordinating Committee meeting is
September 9, 2009, 10:30 a.m.

Agendas and Minutes may also be found on the San Joaquin County Public Works Website at:
<http://www.sjgov.org/pubworks/Meeting%20Info.htm>

Note: If you need disability-related modification or accommodation in order to participate in this meeting, please contact the Water Resource Staff at (209) 468-3531 at least 48 hours prior to the start of the meeting.

**Northeastern San Joaquin Groundwater Banking Authority
Coordinating Committee Meeting Summary
Wednesday, July 8, 2009**

Follow up Items:

1. Mr. Wyckoff to report back on DWR's response to Mr. Flinn's message that expenditure and prioritization processes for state funds should be public and transparent.
2. Staff to compile existing General Plan water resource references for review.
3. Mr. Barkkett to report back on assistance to NSJ regarding the early implementation funding process for the pipeline rebuild.
4. Members to determine if their respective boards will participate in funding Mr. Zuckerman's "Building Regional Water Self-Sufficiency" study.
5. Appropriations working group to be convened by Dr. Lytle.
7. Staff to develop USGS workshop suggestions for discussion
8. GBA to begin work on known deficiencies in the current IWMP and talk with DWR about the new guidelines when they are released.

NOTE:

The meeting was cancelled because of a lack of agency participants. The agenda items will be continued to the August Coordinating Committee Meeting.

Next Meeting:

August 12, 2009, 10:30 a.m.

California Water Service Company, Conference Room
1602 East Lafayette Street, Stockton, California

Submitted by:

Carolyn Lott, Facilitator
Center for Collaborative Policy

**ATTACHMENT
C.**

7.9 Costs for Implementation of Alternatives

Capital and operations costs were taken from existing reports and studies, or were estimated using unit cost factors included in the Basis of Design. Costs are reported in Table 7-5 in 2007 dollars and summarized below.

	Total Net Recharge (KAF/yr)	Capital Cost (\$M)	O&M Cost (\$M/yr)	Annualized Cost (\$M/yr)	Unit Cost (\$/AF)
Alternative A	151	\$921	\$10.1	\$68.5	\$460
Alternative B	133	\$712	(\$1.7)	\$43.5	\$330
Alternative C	138	\$584	\$13.7	\$50.8	\$370
Alternative D	148	\$829	\$10.3	\$62.8	\$420

Capital costs range from \$584 to \$921 million. Alternative C is the least expensive, and is the only alternative without a new surface storage reservoir. Alternative A is the most expensive, and includes Duck Creek Reservoir and new diversions from Pardee Reservoir and the lower Mokelumne River²⁶. Alternatives A, B, and C include regional banking components that provide a net water supply and a net revenue stream which reduces net operations costs²⁷. Alternative B includes a large groundwater bank that would recharge a net average of 53 kacre-feet per year and would produce revenues that would offset other operation costs. These revenues make Alternative B the least expensive on a unit cost basis.

Also shown in Table 7-5 are the land requirements for in-lieu distribution networks, recharge ponds, and field flooding. In-lieu surface water distribution systems would be required for 1,800 to over 10,000 acres for the various alternatives, costing an estimated \$2,400 per acre, for a cost of up to \$25 million in Alternative A. Alternatives C and D would each require nearly four square miles of recharge ponds totaling over \$100 million at an estimated cost of \$40,000 per acre. Land for field flooding would be leased for approximately six months per year.

²⁶ No cost is assumed for reimbursement of lost EBMUD hydropower revenues since EBMUD power generation is junior to all diversions for water supply

²⁷ Assumes a fee of \$100/af whenever water is placed into or taken from groundwater storage

Eastern San Joaquin Integrated Regional Water Management Plan

NSJCGBA IRWMP Alternatives Cost		Groundwater Recharge			Cost				
		Recharge (KAF/yr)	In-lieu acres (3 af/ac, 20% peak month) (ac)	Recharge Ponds (ac)	Field Flooding (ac)	Burdened Capital Cost (\$M)	Operating Cost (\$M/yr)	Present Value Cost (50y, 6%) (\$M)	Annualized Cost (50y, 6%) (\$M/yr)
Alternative A	Projects								
	Maximum Lodi reclamation	8.0				\$140	\$0.4	\$146	\$9.3
	Stockton Delta Water Supply Project Phase II	33.3				\$113	\$3.3	\$165	\$10.5
	Farmington Program Phase 2	3.8			420	\$17	\$0.3	\$21	\$1.3
	NSJWCD Surface Water Distribution System Rehabilitation	8.6	1,190			\$22	\$0.1	\$23	\$1.5
	MORE Water Lower Mokelumne diversion					\$86	\$3.4	\$140	\$8.9
	MORE Water Pardee diversion					\$213	\$5.0	\$292	\$18.5
	Regional Banking - Recharge	26.7		550		\$40	(\$2.9)	(\$6)	(\$0.4)
	Regional Banking - Extraction	(15.9)				\$25	(\$0.9)	\$10	\$0.6
	Duck Creek Reservoir	60.6	8,420			\$205	\$1.3	\$226	\$14.3
	Saline barrier	18.7				\$59	\$0.1	\$61	\$3.8
	Management Actions								
	CSJWCD In-lieu Incentive Program	4.8	660			\$2		\$2	\$0.2
	Total Alternative A	150.6	10,270	550	420	\$921	\$10.1	\$1,080	\$68.5
Unit Cost (\$/AF)								\$460	
Alternative B	Projects								
	Stockton Delta Water Supply Project Phase II	33.3				\$113	\$3.3	\$165	\$10.5
	NSJWCD Surface Water Distribution System Rehabilitation	8.6	1,190			\$22	\$0.1	\$23	\$1.5
	MORE Water Pardee diversion					\$213	\$5.0	\$292	\$18.5
	Freeport Regional Water Project unused capacity	67.1		620		\$46	(\$6.7)	(\$60)	(\$3.8)
	Regional Banking - Recharge	8.3		550		\$36	(\$0.8)	\$23	\$1.4
	Regional Banking - Extraction	(52.6)				\$25	(\$4.0)	(\$38)	(\$2.4)
	Duck Creek Reservoir	44.7	6,210			\$197	\$1.3	\$218	\$13.6
	Saline barrier	18.7				\$59	\$0.1	\$61	\$3.8
	Management Actions								
	CSJWCD In-lieu Incentive Program	4.8	660			\$2		\$2	\$0.2
	Total Alternative B	132.8	8,060	1,170		\$712	(\$1.7)	\$686	\$43.5
	Unit Cost (\$/AF)								\$330
	Alternative C	Projects							
Maximum Lodi reclamation		8.0				\$140	\$0.3	\$145	\$9.2
Stockton Delta Water Supply Project Phase II		33.3				\$113	\$3.3	\$165	\$10.5
NSJWCD Surface Water Distribution System Rehabilitation		8.6	1,190			\$22	\$0.1	\$23	\$1.5
MORE Water Lower Mokelumne diversion		31.5		1,060		\$150	\$3.4	\$204	\$12.9
Freeport Regional Water Project unused capacity		39.1		620		\$46	\$8.7	\$183	\$11.6
Regional Banking - Recharge		10.0		550		\$36	(\$1.0)	\$20	\$1.3
Regional Banking - Extraction		(15.9)				\$17	(\$1.2)	(\$2)	(\$0.1)
Saline barrier		18.7				\$59	\$0.1	\$61	\$3.8
Management Actions									
CSJWCD In-lieu Incentive Program		4.8	660			\$2		\$2	\$0.2
Total Alternative C		138.0	1,850	2,230		\$584	\$13.7	\$801	\$50.8
Unit Cost (\$/AF)									\$370
Alternative D		Projects							
	Stockton Delta Water Supply Project Phase II	33.3				\$113	\$3.3	\$165	\$10.5
	Farmington Program Phase 2	3.8			420	\$17	\$0.3	\$21	\$1.3
	NSJWCD Surface Water Distribution System Rehabilitation	8.6	1,190			\$22	\$0.1	\$23	\$1.5
	MORE Water Lower Mokelumne diversion	43.3		2,460		\$240	\$3.4	\$294	\$18.7
	South Gulch Reservoir/UFC	18.7	2,590			\$254		\$254	\$16.1
	CSJ BN Intermodal ponds	3.6		70		\$4		\$4	\$0.3
	Saline barrier	18.7				\$59	\$0.1	\$61	\$3.8
	Management Actions								
	CSJWCD In-lieu Incentive Program	4.8	660			\$2		\$2	\$0.2
	Additional transfers from WID, OID, SSJID	13.7	1,900			\$7	\$3.0	\$55	\$3.5
	Total Alternative D	148.4	6,340	2,530	420	\$829	\$10.3	\$990	\$62.8
	Unit Cost (\$/AF)								\$420

Table 7-5 - Alternatives Cost

