

WATER PROJECT 4

FACT SHEET FOR WATER SUPPLY ALTERNATIVES MPWMD Special Workshop, August 25, 2011

Alternative Type: WATER RECYCLING

Project Name: REGIONAL URBAN WATER AUGMENTATION PROJECT (RUWAP)

Project Sponsors: Monterey Regional Water Pollution Control Agency (MRWPCA) and Marina Coast Water District (MCWD)

Location: Regional Treatment Plant to cities of Marina and Seaside (see map on reverse side)

Project Description: Recycled water from MRWPCA plant to MCWD customers with future expansion to Peninsula. Desalination portion of project not discussed.

Prepared By: MRWPCA staff

ATTRIBUTE	ESTIMATES	NOTES and COMMENTS Cite documentation; identify unknowns
YIELD (AFY)		
*Avg./long-term	1,730 AFY	Environmentally approved project
*Minimum	1,000 AFY	Initial expected project
*Maximum	3,000 AFY	Needs winter storage and boosted pump stations
COST		
*Capital Cost	\$25,580,000	RMC 6/17/08. Estimate for 1,427 AFY
*O&M	\$1,210,000	RMC 6/17/08. Estimate for 1,427 AFY
*Unit Cost	\$/AF \$2,100	Assume 30 year life at 5.5%
TIMELINE		
*CEQA/NEPA	Complete	Some tasks can be concurrent
*Approvals/Permits	2 months	
*Site Acquisition	4 months	City of Marina
*Design	1 month	
*Construction	Years 1.5	
*Water Delivery	Total = 2.5 years from funding date	At completion of construction
PERMITS AND APPROVALS		
	Law Examples	Agency Examples
*Federal Agencies	NEPA	Bureau of Reclamation FONSI EA-06-23
*State Agencies	CEQA	SCH 2003081142
*Regional Agencies	Air Quality	MBUAPCD
*Local Jurisdictions	Encroachment	County (Planning), Marina, Seaside
PROS AND CONS		
	Examples	Highlight primary factors
*Benefits	Cheap, proven, sustainable	Proven technology and success locally with AG
*Drawbacks	Willing customers	Need enough customers signed up to take water
OTHER		

Location Map for Groundwater Replenishment and RUWAP



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Alternative Type: WATER RECYCLING

Project Name: GROUNDWATER REPLENISHMENT PROJECT (GRP)

Project Sponsors: Monterey Regional Water Pollution Control Agency (MRWPCA)

Location: Regional Treatment Plant through RUWAP pipeline to Eucalyptus Road in Seaside. (see map on reverse side)

Project Description: Treat recycled water at MRWPCA plant to a high degree of purity and inject it into the Santa Margarita and Paso Robles Aquifers within the Seaside Groundwater Basin for later removal and treatment as drinking water.

Prepared By: MRWPCA staff

ATTRIBUTE	ESTIMATES	NOTES and COMMENTS Cite documentation; identify unknowns
YIELD (AFY)		
*Avg./long-term	2,700 AFY	Initial project
*Minimum	2,700 AFY	
*Maximum	2,700 AFY	Need separate pipeline to scale up
COST		
*Capital Cost	\$57,140,000	RMC 6/17/08
*O&M	\$2,920,350	RMC 6/17/08
*Unit Cost	\$/AF \$2,526	Assume 30 year life at 5.5%
TIMELINE		
		Some tasks can be concurrent
*CEQA/NEPA	2 years	Note lead agencies
*Approvals/Permits	2 years	
*Site Acquisition	1 year	From City of Seaside
*Design	1 year	
*Construction	2 years	
*Water Delivery	Total= 5 years after funding date	Water delivery in November after construction complete
PERMITS AND APPROVALS		
	Law Examples	Agency Examples
*Federal Agencies	NEPA	Bureau of Reclamation
*State Agencies	CEQA & WDR	RWQCB and CDPH
*Regional Agencies	Air Quality	MBUAPCD
*Local Jurisdictions	Wells, use permit, encroachment permit	County (Health), City of Seaside
PROS AND CONS		
	Examples	Highlight primary factors
*Benefits	Sustainable, better than existing quality	proven technology
*Drawbacks	Public perception	Expensive to expand

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Location Map for Groundwater Replenishment and RUWAP

