



San Luis Drainage Feature Re-evaluation

**Briefing
August 26, 2002**



AGENDA

- Introductions
- Overview of Feature Re-Evaluation Process
 - Project goal & study area
 - Solution area
 - Elements of a drainage alternative
 - Re-evaluation activities
- Drainwater Source Control and Re-use
- Alternatives Review
 - In-Valley Disposal Option
 - Delta Outfall Option
 - Ocean Outfall Option
- Next Steps



HISTORY

1960	San Luis Act
1968-1975	Construction of 85 miles of San Luis Drain and 1st stage Kesterson Reservoir
1975-1979	San Joaquin Valley Interagency Drainage Program conducted by DWR, Reclamation, and SWRCB
1983	USFWS reports toxicant problems and abnormalities at Kesterson Reservoir
1985	Kesterson Reservoir/San Luis Drain closed
1992	Sumner Peck Litigation filed
1995	District Court Judgment entered
2000	Appeals Court Opinion
2001	Bureau of Reclamation Plan of Action
2001	Preliminary Alternatives Report (Reclamation)



PROJECT OBJECTIVE

Appellate Court Ruling

*“ . . . Department of the Interior. . . shall **without delay, provide drainage to the San Luis Unit**, pursuant to the statutory duty imposed by section 1(a) of the San Luis Act.”*

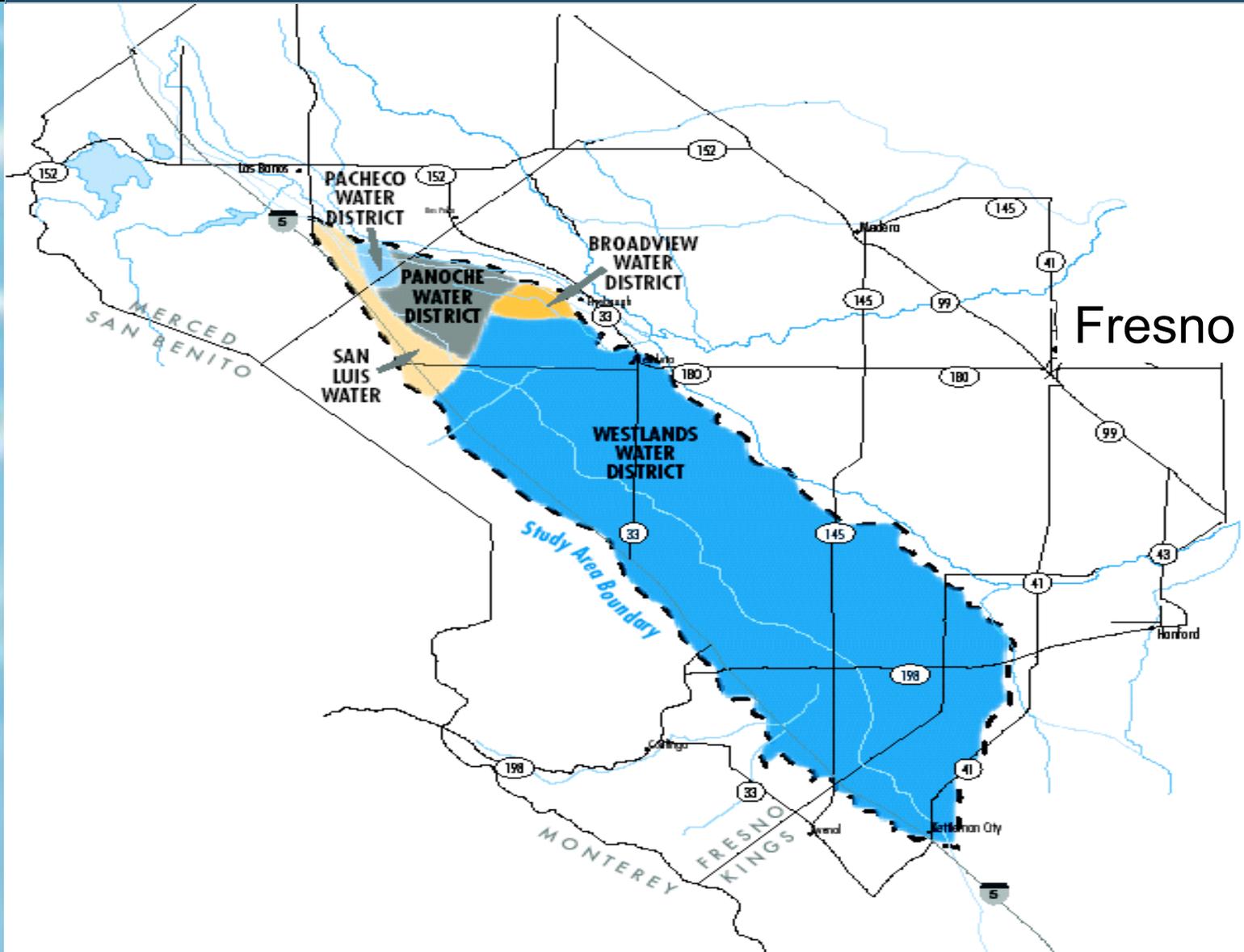
The Secretary has discretion to determine:

- (1) Which lands need drainage to maintain arability of the soil
- (2) The size of an interceptor drain to meet the drainage requirement
- (3) Approach for treating and disposing drain water



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DRAINAGE SERVICE AREA





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2050 DRAINAGE NEED

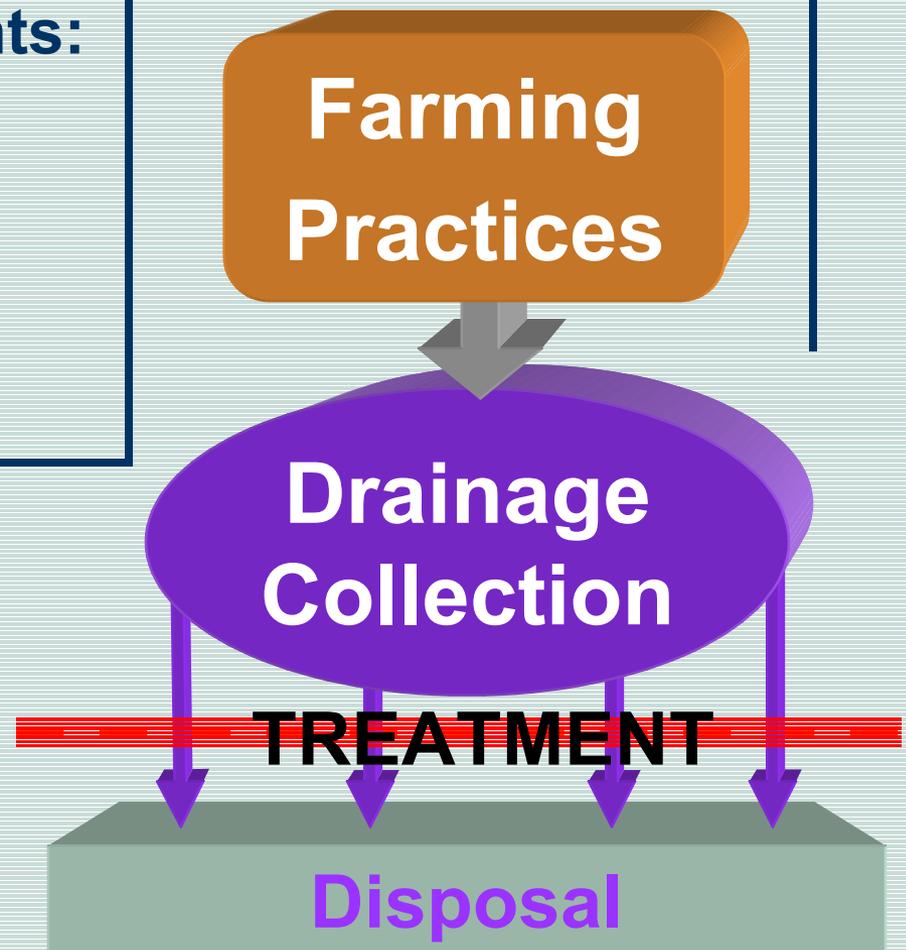
District	Area Needing Drainage Area (acres)
Westlands Water District North	102,000
Westlands Water District Central	104,000
Westlands Water District South	92,000
Subtotal -- WWD	298,000
Northerly SLU District	45,000
Northerly Area Outside of SLU	36,000
Subtotal -- Northerly Area	81,000
Total	379,000



DRAINAGE PROCESS

Complete Drainage Solution Components:

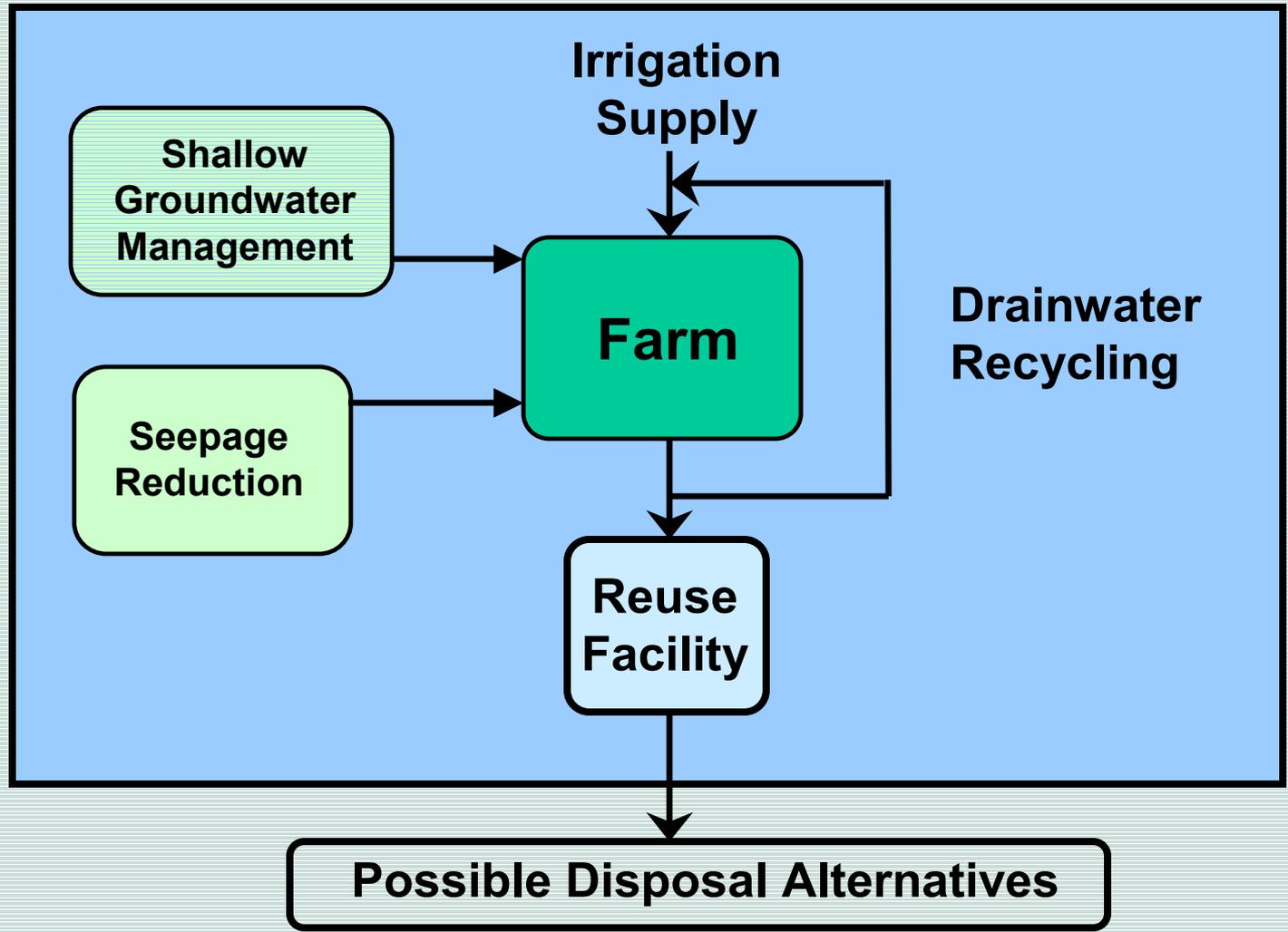
- Management
- Collection
- Treatment
- Disposal





COMMON DRAINAGE REDUCTION ELEMENTS

Common Elements to All Alternatives





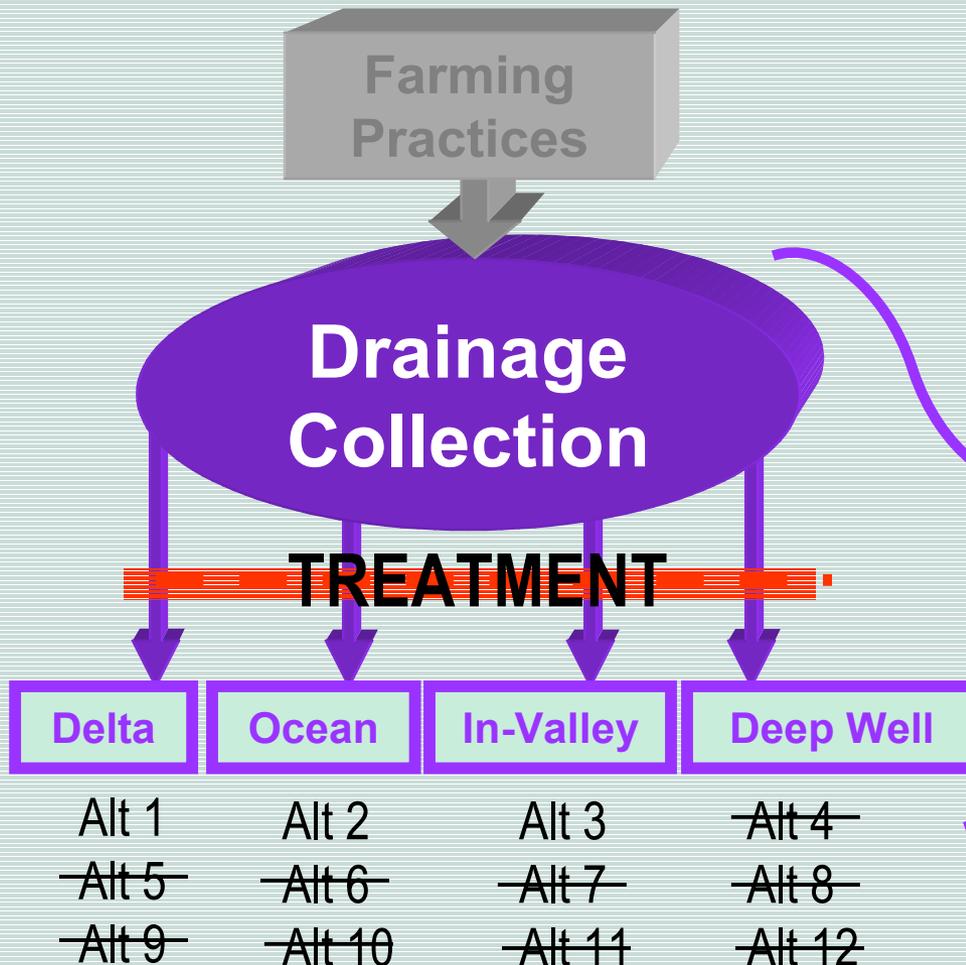
DRAINWATER REDUCTION

Drainage Need for 379,000 Acres of Drainage-impaired Land

- Without reuse or on-farm actions -- approx. 130,000 AF/year
- With on-farm actions -- approx. 110,000 AF/year
- With on-farm actions & reuse -- approx. 30,000 AF/year



RE-EVALUATION ACTIVITIES



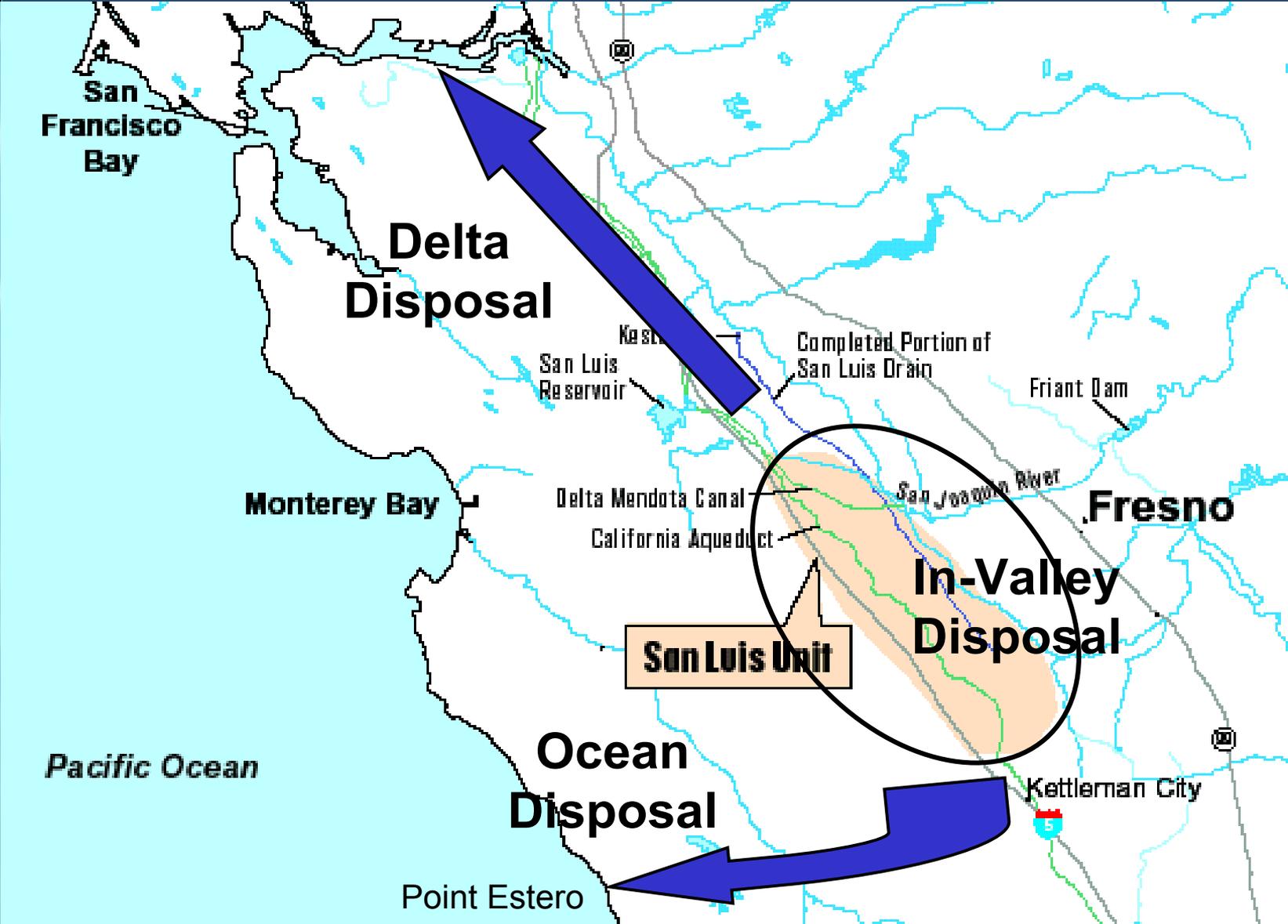
Drainage Service:

...to remove water from irrigated fields to maintain long-term, sustainable salt and water balance in the root zone of irrigated lands.



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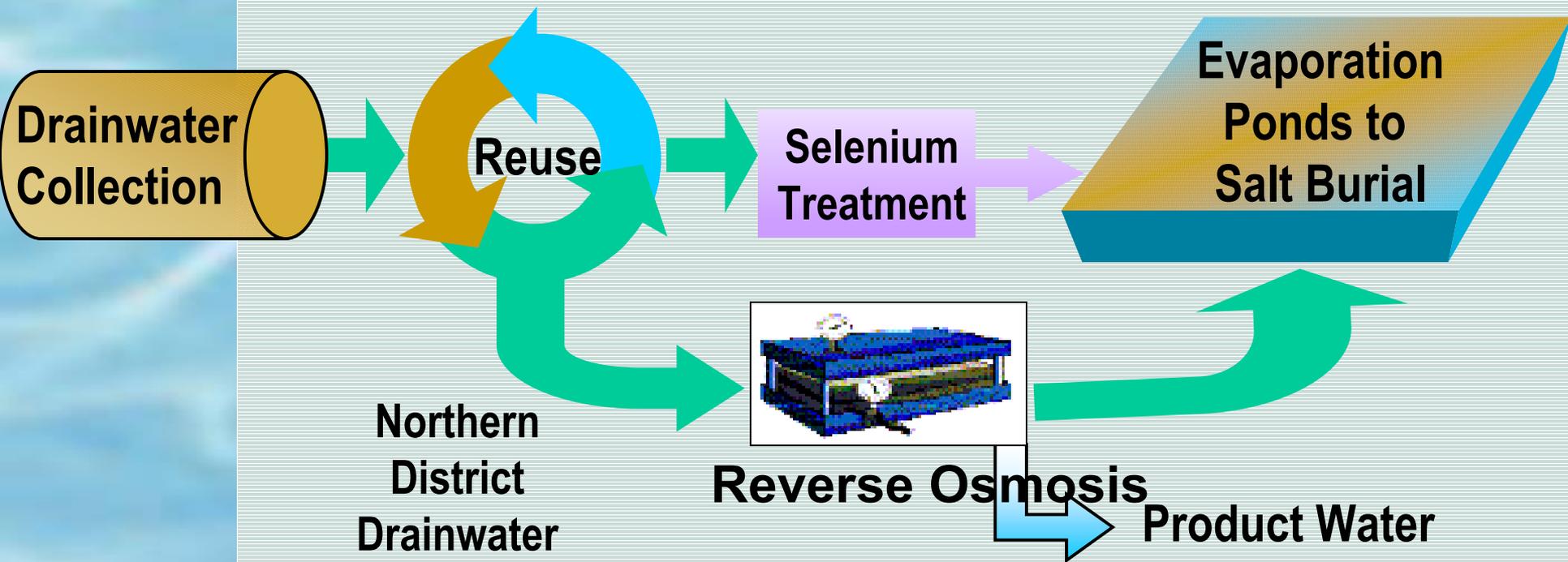
SOLUTION AREA





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IN-VALLEY DISPOSAL





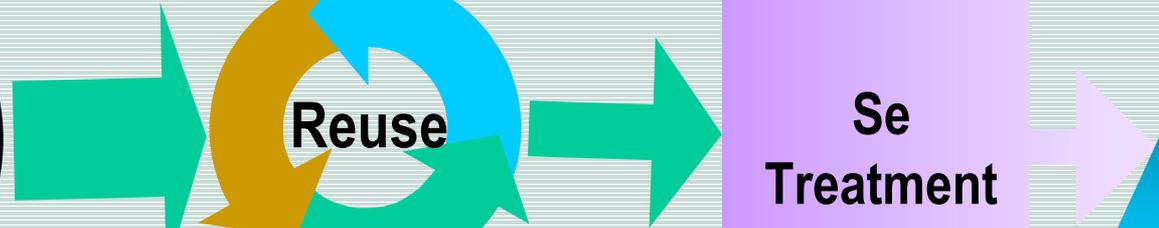
IN-VALLEY DIPOSAL FEATURES

- Reverse osmosis (salt reduction) for northern area drainwater
- Remaining water routed to evaporation ponds (4,000 to 5,500 acre ponds)
- Salts likely stored in place



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DELTA OUTFALL PROCESS





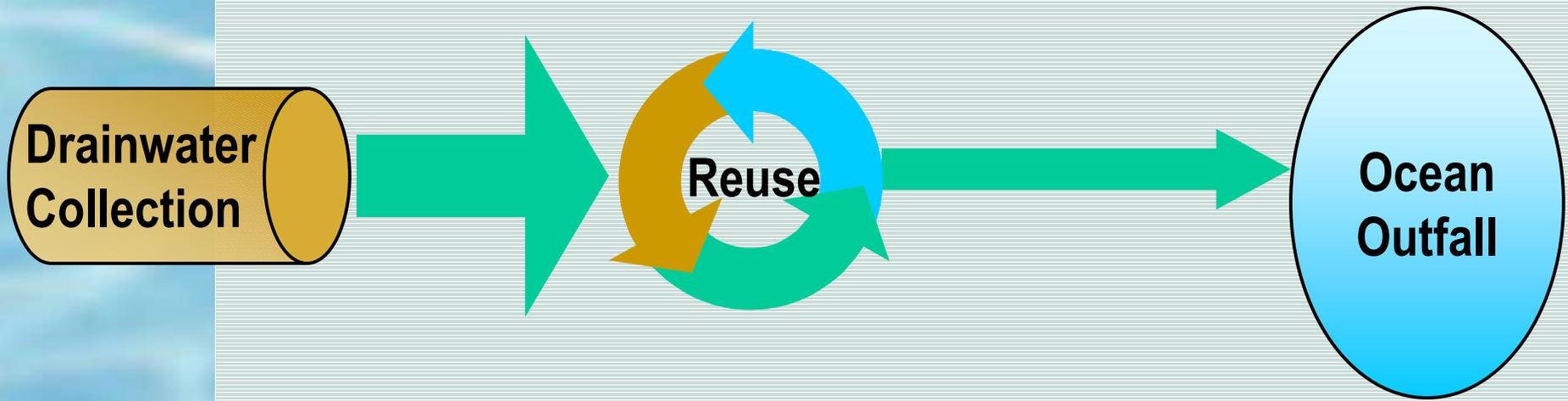
Delta Outfall Features

- Use existing San Luis Drain
- 75 miles of new drain from Kesterson to the Delta
- Gravity fed
- Piping where required in urbanized areas
- Two potential outfall locations
 - Carquinez Straits
 - Chipps Island (original SLD outfall)
- Compliance with existing water quality standards for selenium, salts, and other constituents



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OCEAN OUTFALL PROCESS





Ocean Outfall Features

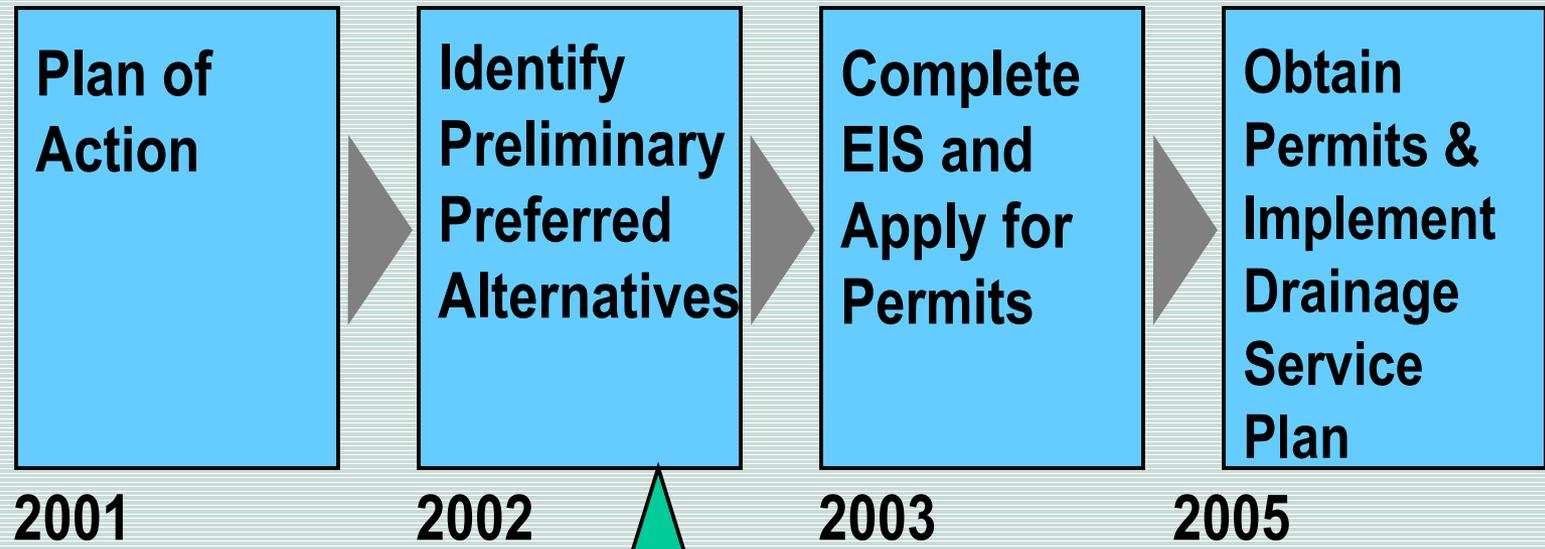
- Reviewed existing outfall studies and locations
- 100 miles of pipelines and tunnels to pump drainwater from the existing San Luis Drain over/through the cost range
- Ocean outfall diffuser designed to dilute constituents of concern
- Outfall at Point Estero being evaluated

Project Schedule & Next Steps



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PROJECT SCHEDULE



WE ARE HERE

Interim Actions and Related Studies



NEXT STEPS

- Evaluation and Comparison of Alternatives
- Stakeholder Workshops/Focused Stakeholder & Public Meetings
- Select Preliminary Preferred Alternative
- Complete EIS
- Interim Actions



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CONTACT US

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