Status of Salton Sea Management Program

Little Hoover Commission

25 April, 2016

CALIFORNIA natural resources AGENCY

Salton Sea Management Program

- **Little Hoover Commission**
  - May and June, 2015
  - Immediate action
  - Short and mid term projects
  - Develop funding plan
  - Funding Committee
    - NRCS grant
    - Watershed Act
  - Develop long range plan

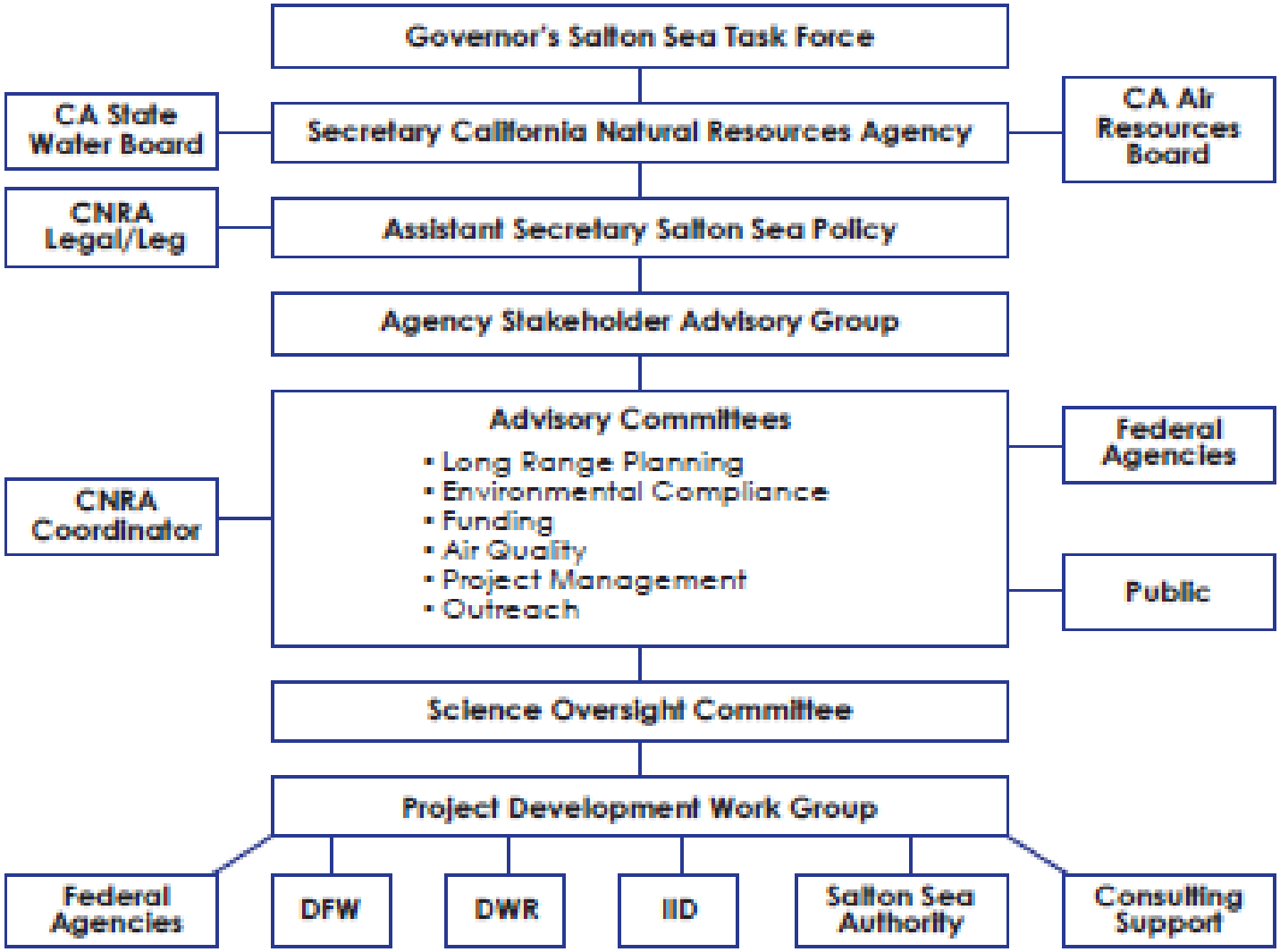
Salton Sea Management Program

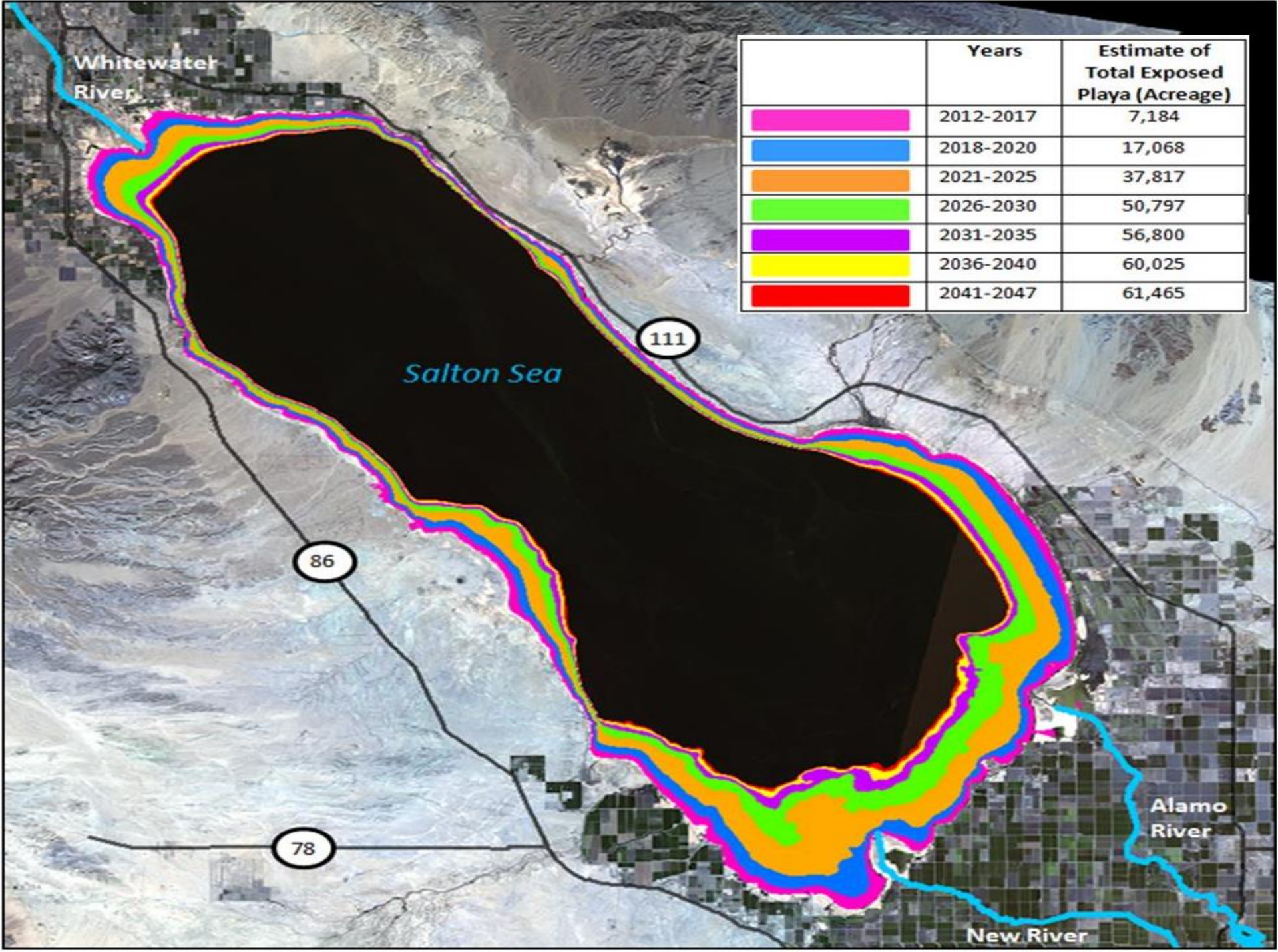
- **Salton Sea Task Force**
  - Created by Governor
  - State agencies
  - Identify realistic short and medium term goals
  - Science Advisory Committee
  - Public outreach
  - Accelerate projects
  - Consider renewable energy development
  - Oversight

Salton Sea Management Program

- Assembly Bill 1095
  - Requires list of “shovel-ready” projects
  - Defines “shovel-ready” in context of Salton Sea
  - Projects include:
    - Red Hill Bay
    - Species Conservation Habitat Phase I
    - IID/Imperial County SSRREI Phase I
    - New River West (modified SCH Phase II)
    - Enhancements to Torres-Martinez wetlands

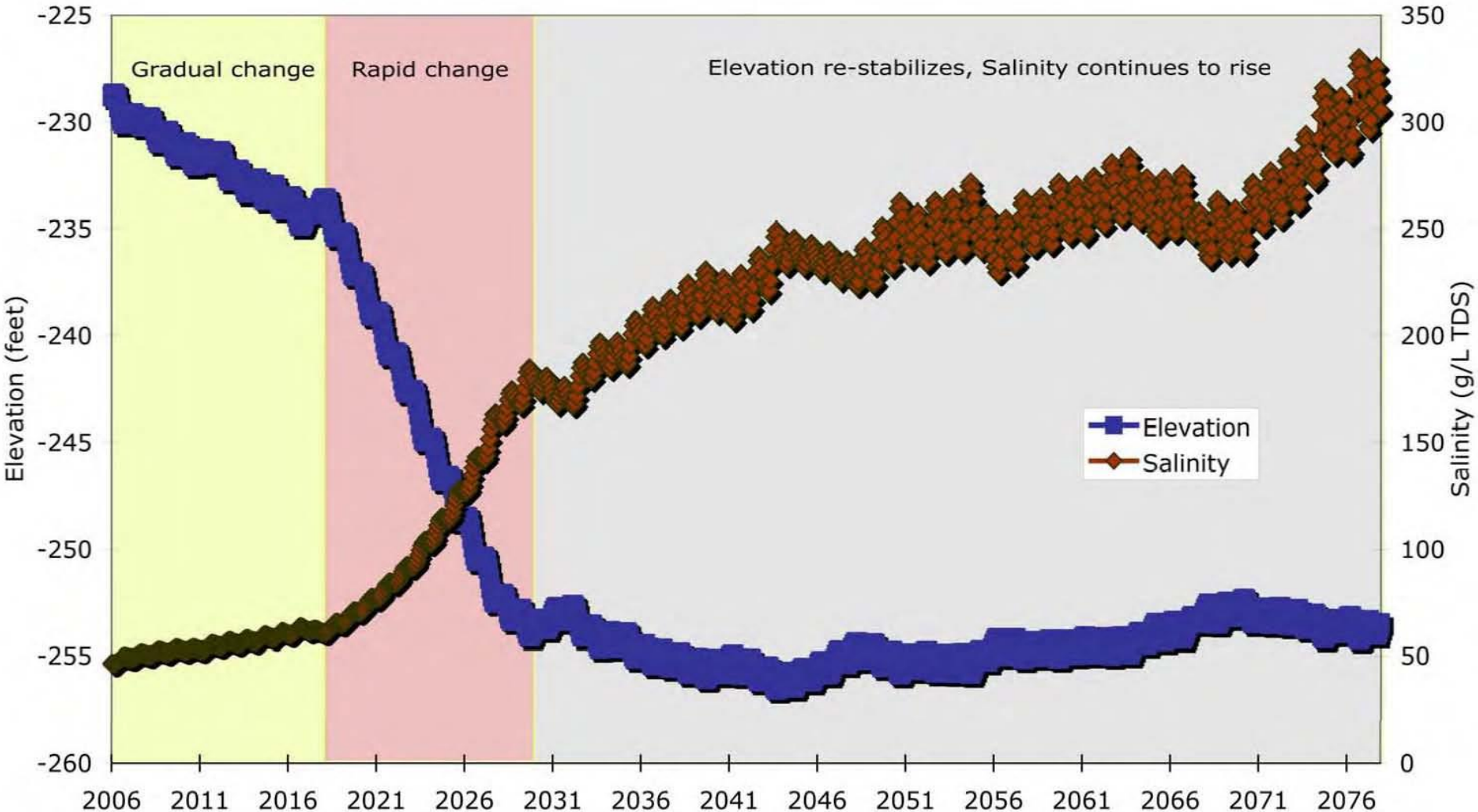
SALTON SEA MANAGEMENT PROGRAM ORGANIZATION CHART





	Years	Estimate of Total Exposed Playa (Acreage)
	2012-2017	7,184
	2018-2020	17,068
	2021-2025	37,817
	2026-2030	50,797
	2031-2035	56,800
	2036-2040	60,025
	2041-2047	61,465

Salton Sea Elevation and Salinity

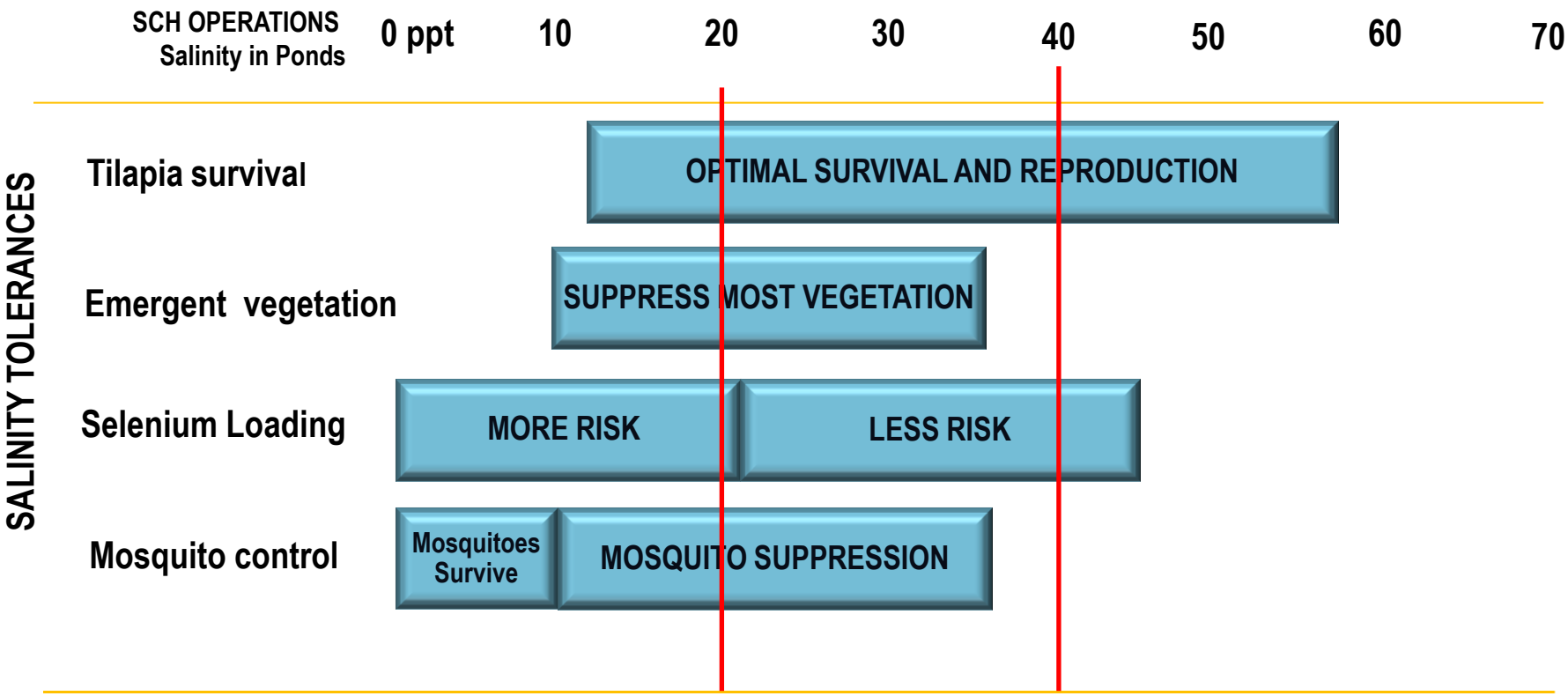


Effect of No- Action on Salinity and Lake Elevation.

From Cohen and Hyun, 2006. Hazard: The Future of the Salton Sea with No Restoration Project

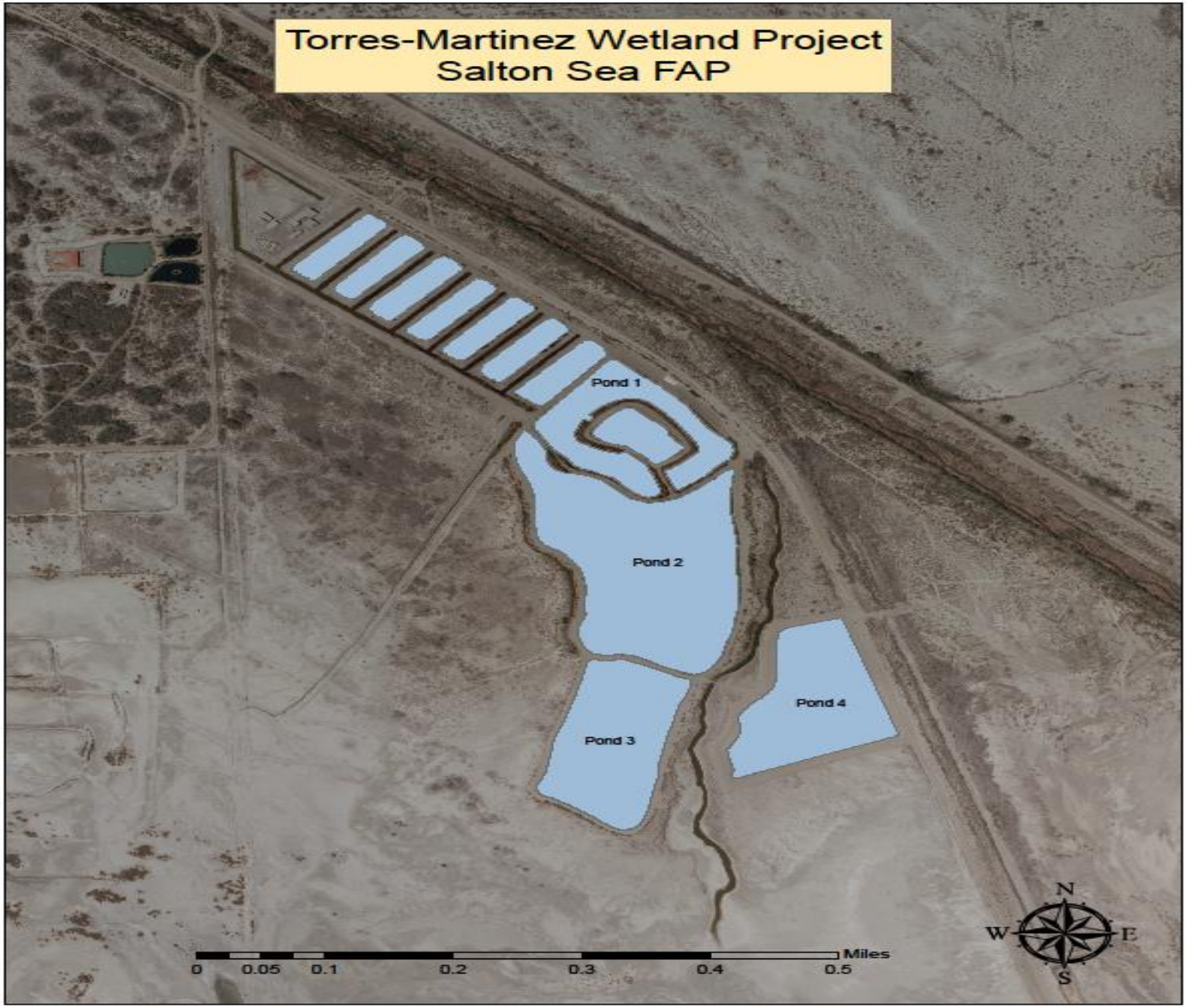
Salinity Constraints and Thresholds

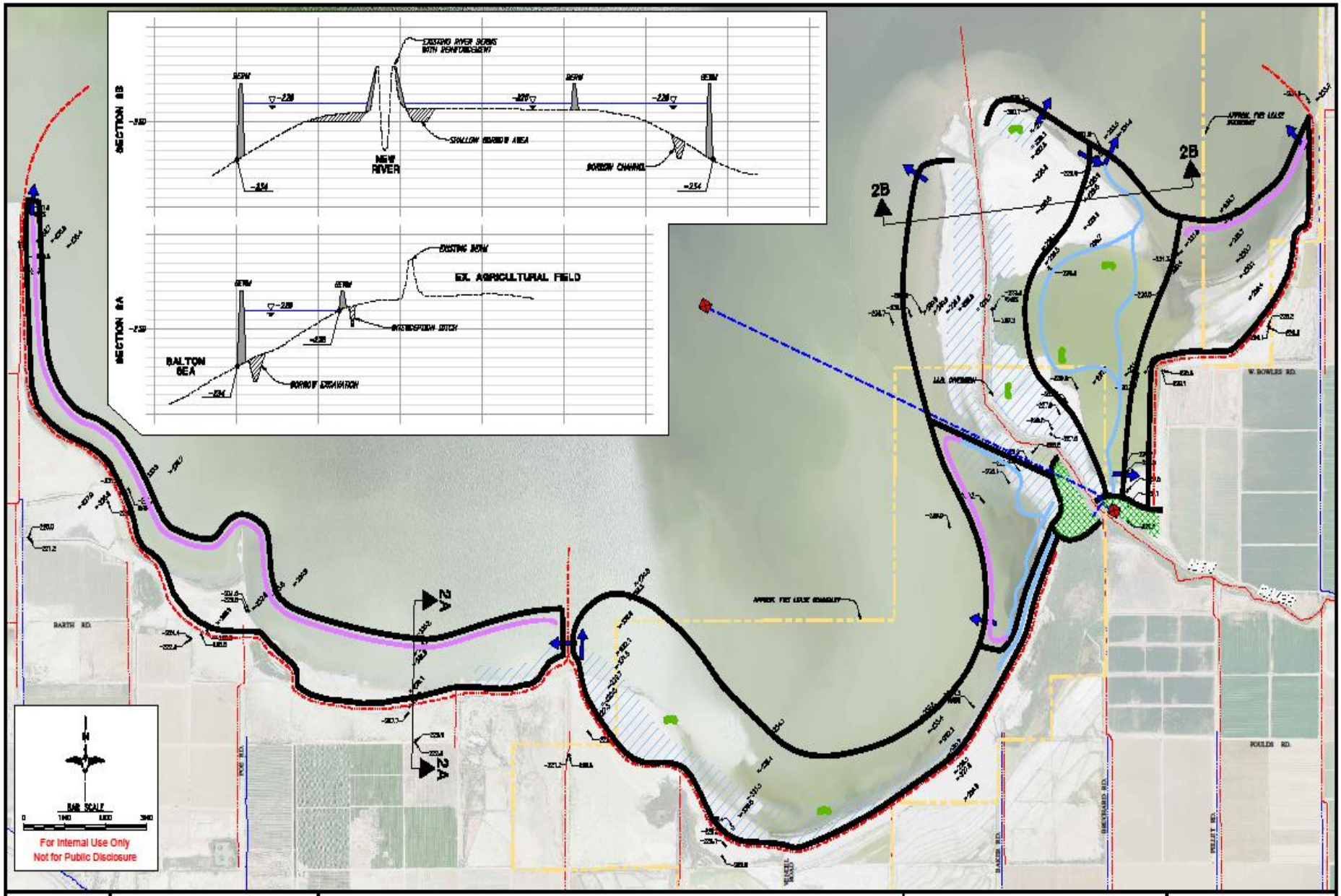
California Department of Water Resources



Salton Sea Management Program Projects Locations
SSA/Torres Martinez Wetland
Backbone/
Initiative
Red Hill
Bay
IID/
Sephton
SCH
New River West
N
W
E
S
Miles
0 1 2 4 6 8 10

FIGURE 1


Torres-Martinez Wetland Project
Salton Sea FAP
Pond 1
Pond 2
Pond 3
Pond 4
0
0.05
0.1
0.2
0.3
0.4
0.5
Miles
N
W
E
S



DUCKS UNLIMITED

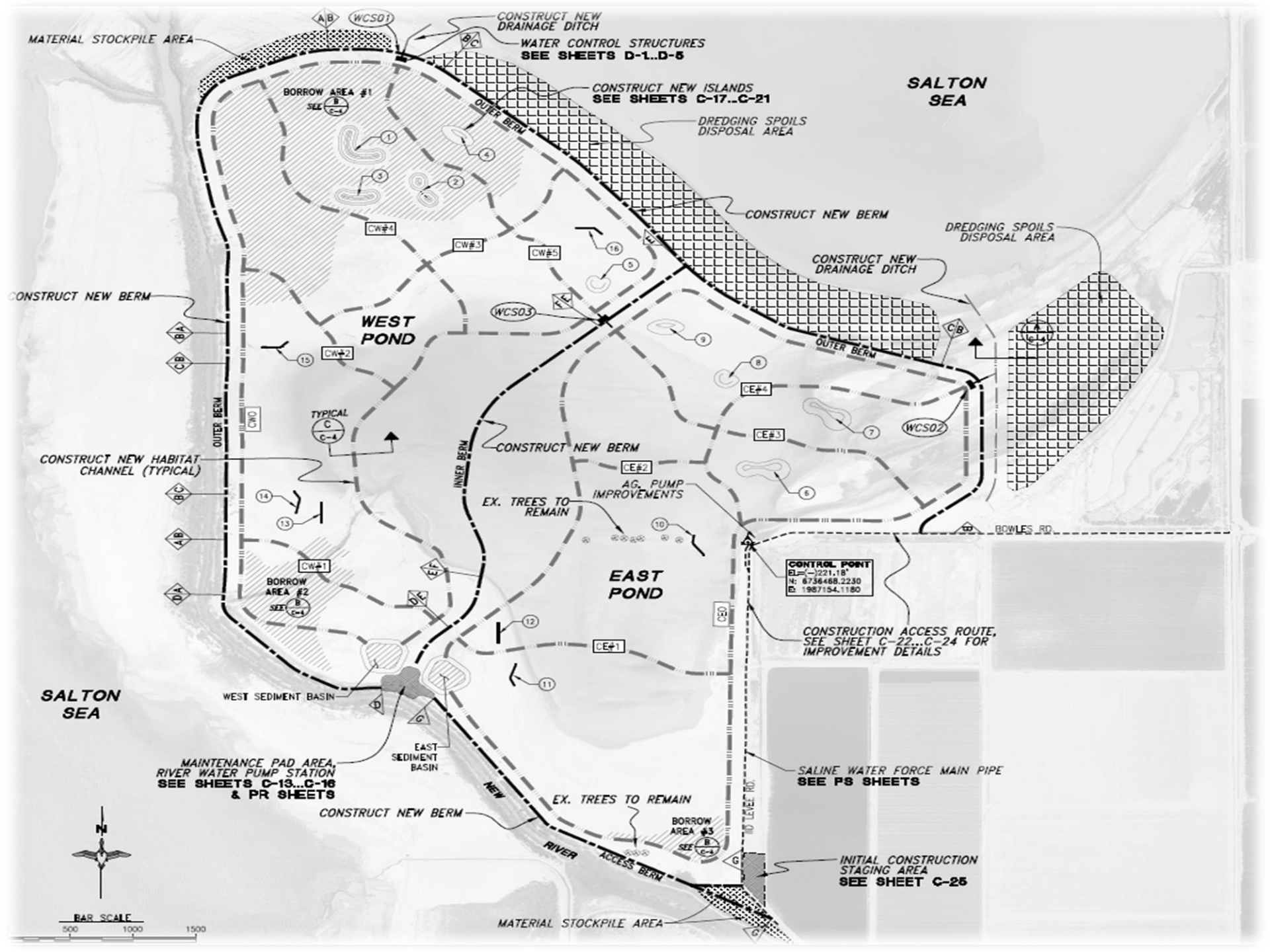
Cardno ENTRIX

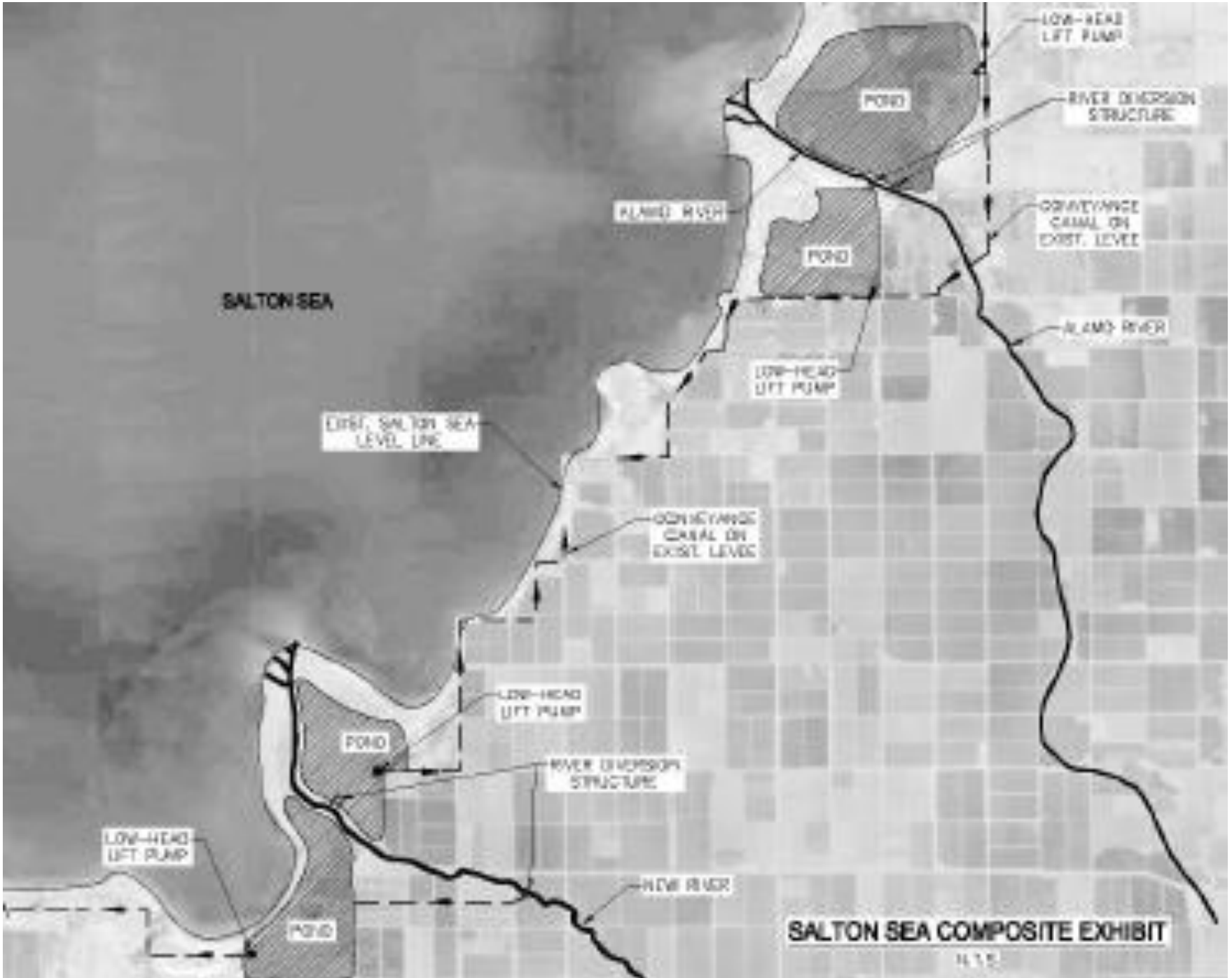
Water Control Structure
Pump Station
Water Supply Pipeline
Approx. Canal Location
Approx. Drain Location
Sediment Basin / Sediment Disposal Site
Shallow Borrow Area
Berm
Borrow Excavation
Borrow Swale / Channel
Island

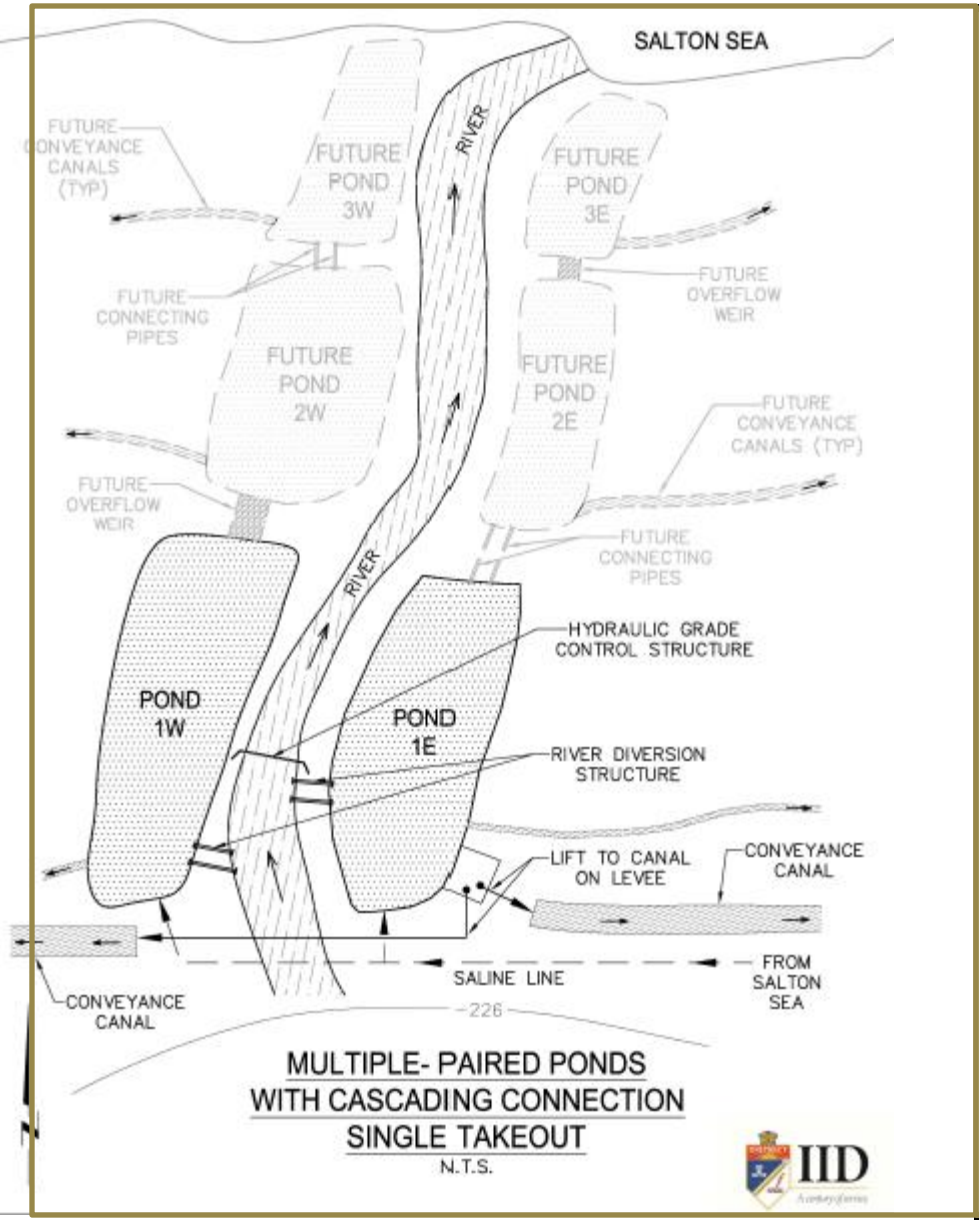
Species Conservation Habitat
Concept Alternatives
Plan & Sections

ALTERNATIVE #2
NEW RIVER 1, 2 & 3

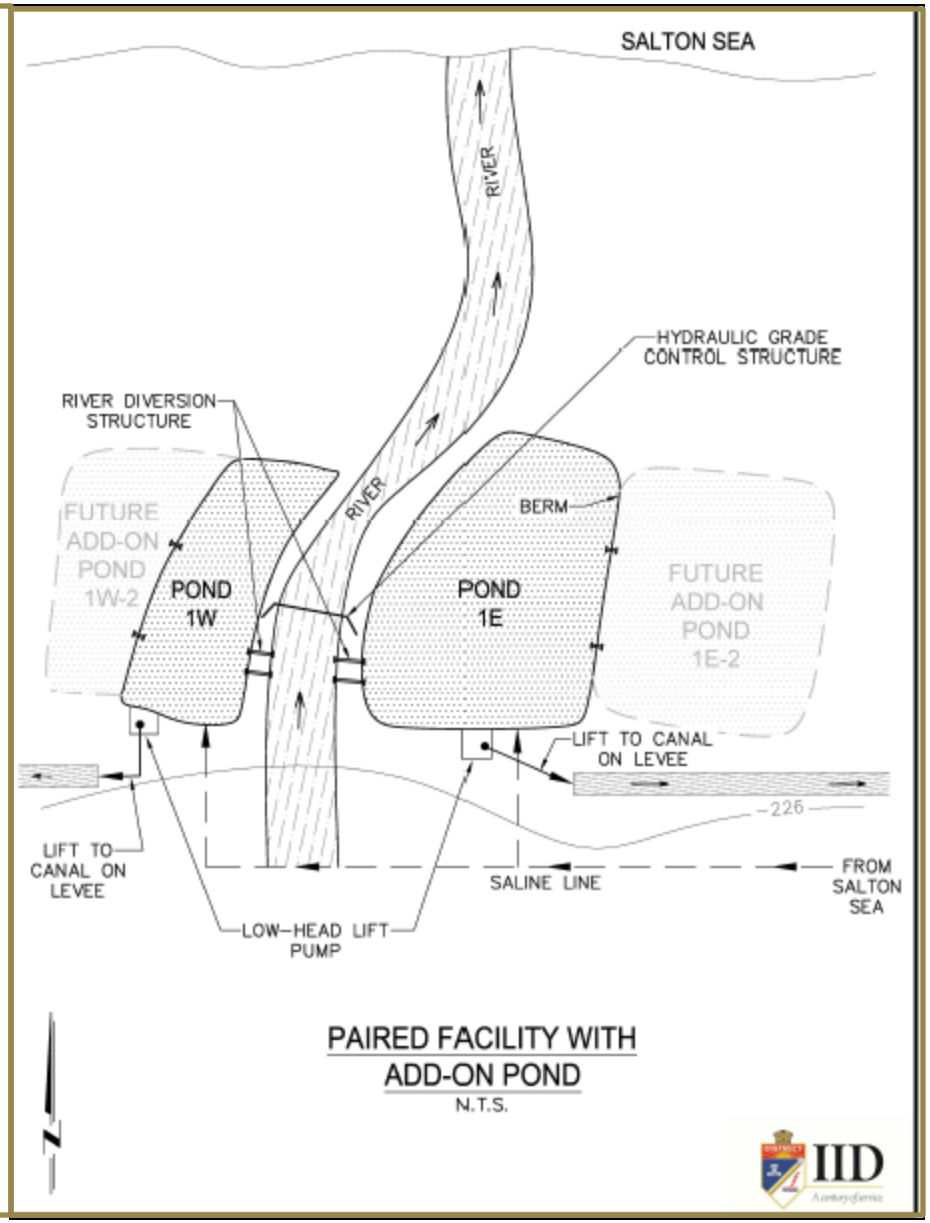
NOVEMBER 24, 2010


MATERIAL STOCKPILE AREA
WCS01
CONSTRUCT NEW DRAINAGE DITCH
WATER CONTROL STRUCTURES
SEE SHEETS D-1..D-5
CONSTRUCT NEW ISLANDS
SEE SHEETS C-17..C-21
SALTON SEA
BORROW AREA #1
SEE B C-4
OUTER BERM
DREDGING SPOILS DISPOSAL AREA
CONSTRUCT NEW BERM
DREDGING SPOILS DISPOSAL AREA
CONSTRUCT NEW DRAINAGE DITCH
CONSTRUCT NEW BERM
CW#4
CW#3
CW#5
WEST POND
WCS03
CW#2
OUTER BERM
CE#4
CE#3
WCS02
OUTER BERM
CW0
TYPICAL C C-4
CONSTRUCT NEW BERM
INNER BERM
CONSTRUCT NEW HABITAT CHANNEL (TYPICAL)
CE#2
AG. PUMP IMPROVEMENTS
EX. TREES TO REMAIN
BOWLES RD
CW#1
BORROW AREA #2
SEE B C-4
EAST POND
CONTROL POINT
EL=(-)221.18'
N: 6736468.2230
E: 1987154.1180
CE0
CONSTRUCTION ACCESS ROUTE, SEE SHEET C-22...C-24 FOR IMPROVEMENT DETAILS
CE#1
SALTON SEA
WEST SEDIMENT BASIN
EAST SEDIMENT BASIN
MAINTENANCE PAD AREA, RIVER WATER PUMP STATION
SEE SHEETS C-13...C-16 & PR SHEETS
NEW RIVER ACCESS BERM
EX. TREES TO REMAIN
CONSTRUCT NEW BERM
BORROW AREA #3
SEE B C-4
HO LEVEE RD.
SALINE WATER FORCE MAIN PIPE
SEE PS SHEETS
INITIAL CONSTRUCTION STAGING AREA
SEE SHEET C-25
MATERIAL STOCKPILE AREA
N
BAR SCALE
500
1000
1500

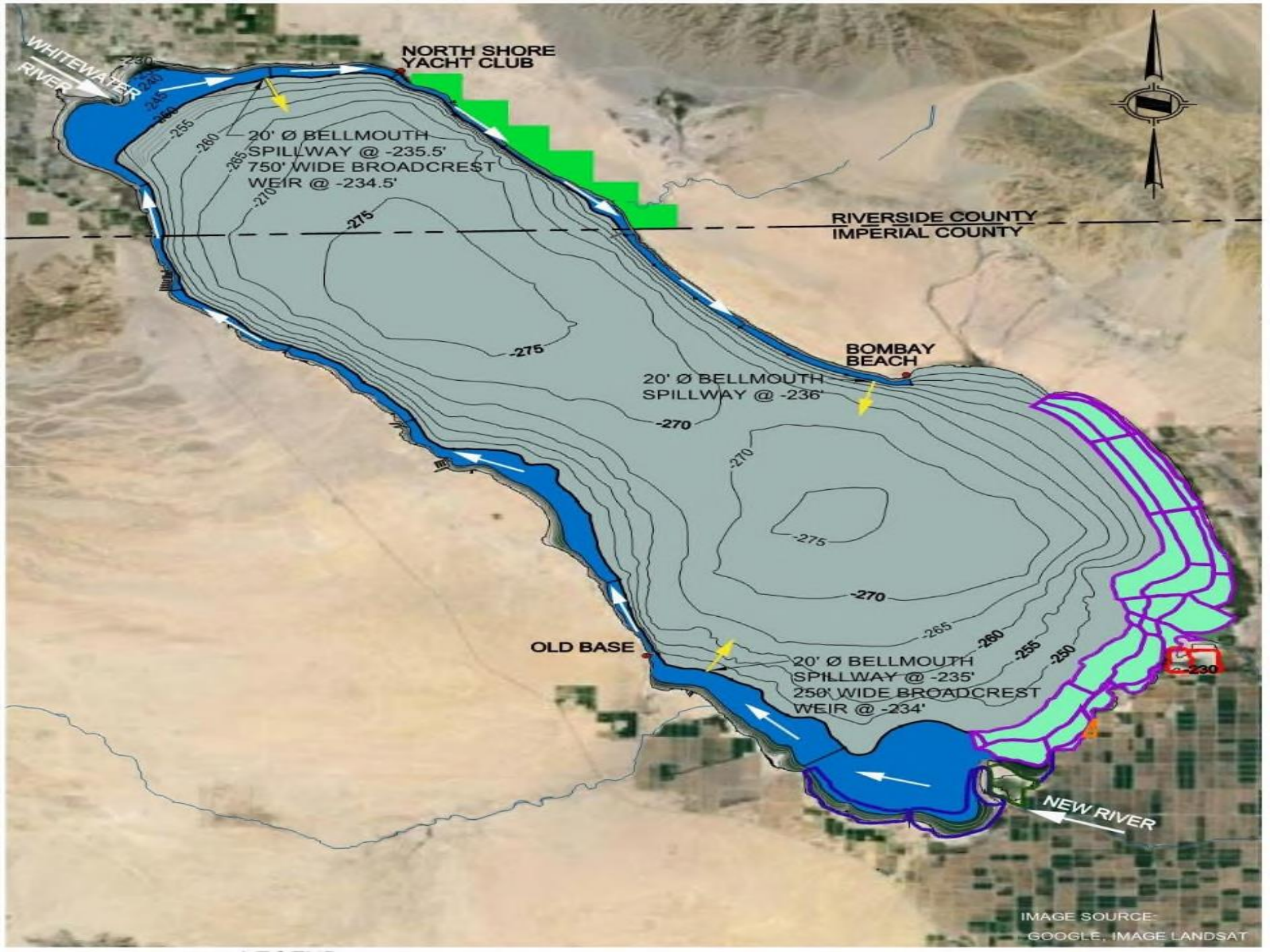

LOW-HEAD LIFT PUMP
POND
RIVER DIVERSION STRUCTURE
ALAMO MARSH
CONVEYANCE CANAL ON EXIST. LEVEE
POND
SALTON SEA
ALAMO RIVER
LOW-HEAD LIFT PUMP
EXIST. SALTON SEA LEVEL LINE
CONVEYANCE CANAL ON EXIST. LEVEE
LOW-HEAD LIFT PUMP
POND
RIVER DIVERSION STRUCTURE
LOW-HEAD LIFT PUMP
NEW RIVER
POND
SALTON SEA COMPOSITE EXHIBIT

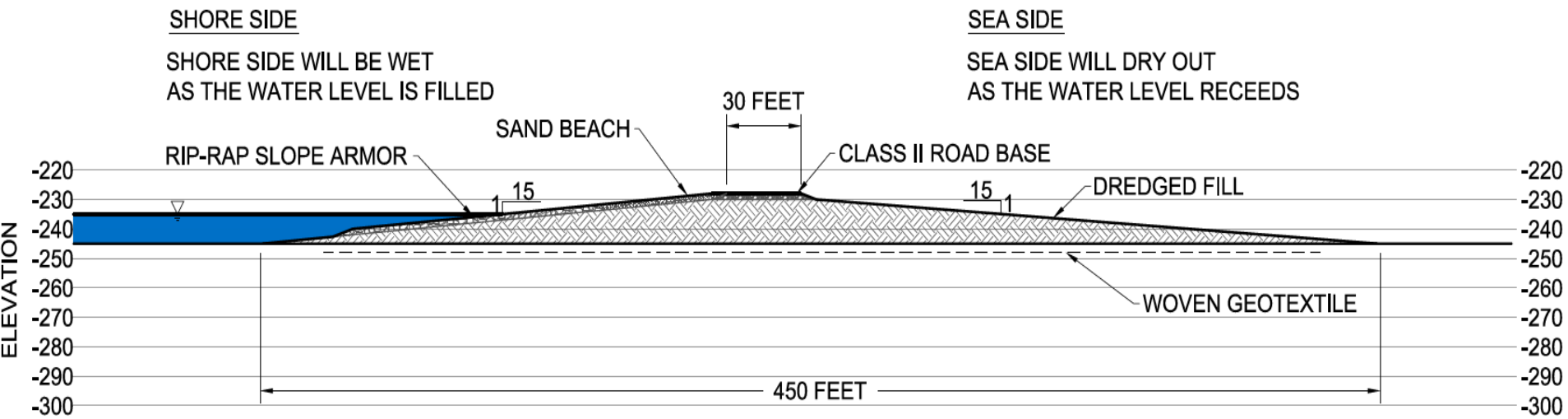


MULTIPLE- PAIRED PONDS
WITH CASCADING CONNECTION
SINGLE TAKEOUT
N.T.S.

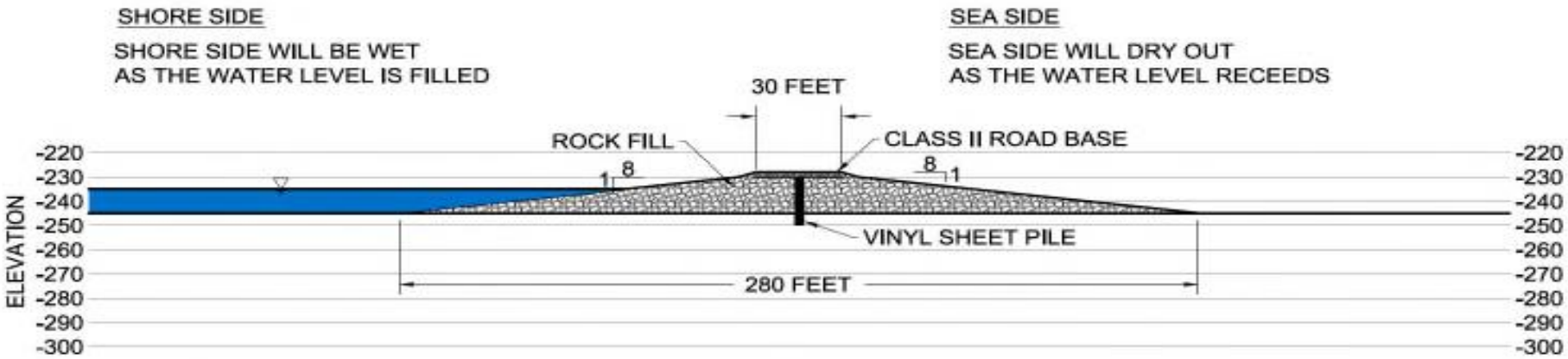


PAIRED FACILITY WITH
ADD-ON POND
N.T.S.


WHITEWATER RIVER
NORTH SHORE YACHT CLUB
20' Ø BELLMOUTH SPILLWAY @ -235.5'
750' WIDE BROADCREST WEIR @ -234.5'
RIVERSIDE COUNTY
IMPERIAL COUNTY
BOMBAY BEACH
20' Ø BELLMOUTH SPILLWAY @ -236'
OLD BASE
20' Ø BELLMOUTH SPILLWAY @ -235'
250' WIDE BROADCREST WEIR @ -234'
NEW RIVER
-230
-235
-240
-245
-250
-255
-260
-265
-270
-275
IMAGE SOURCE:
GOOGLE, IMAGE LANDSAT



TOP OF BERM ELEV: -230.00
SEALEVEL ELEV: -235.00
SEAFLOOR ELEV: -245.00



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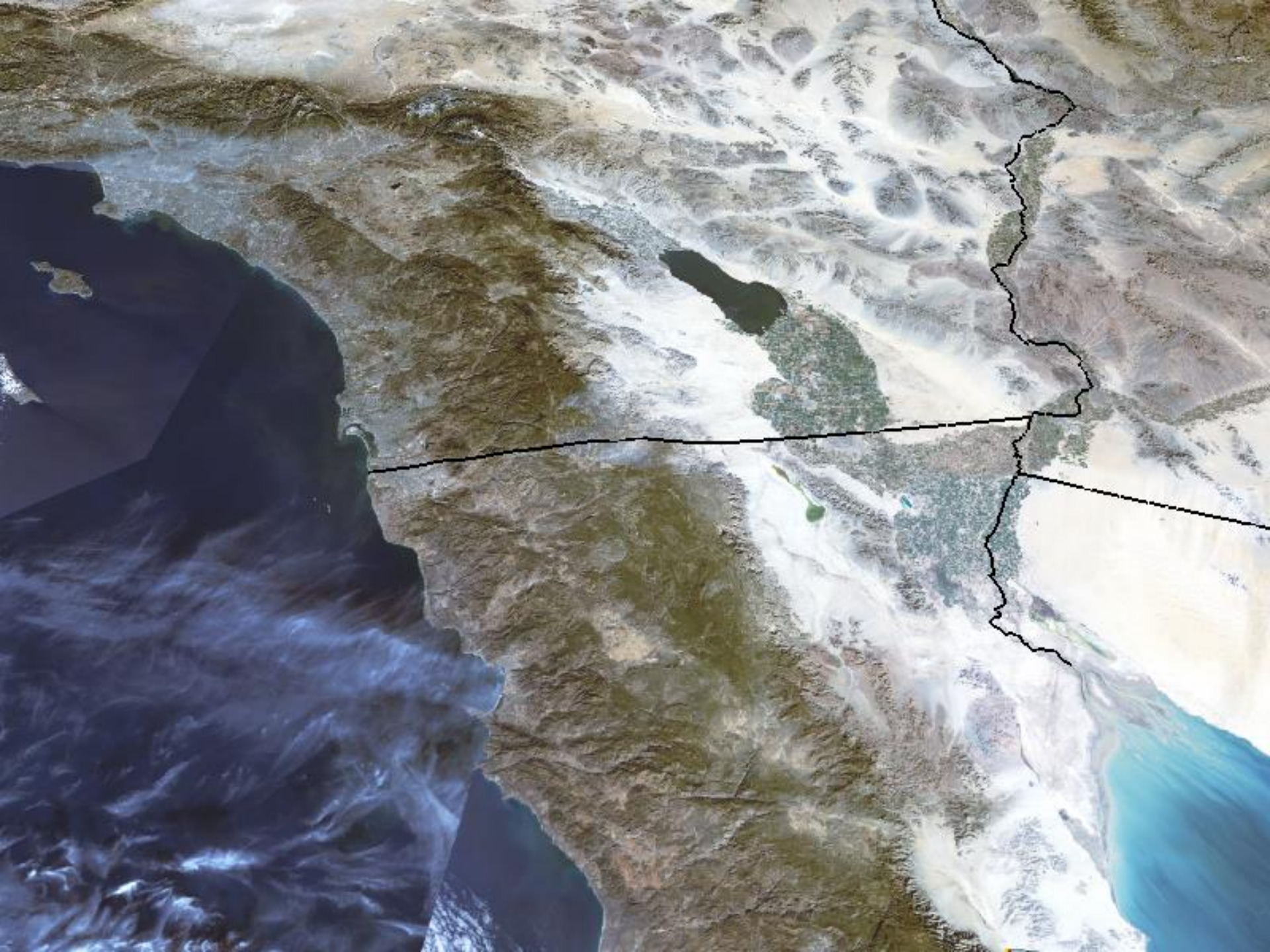
Salton Sea Management Program

- **Long Range Plan**
  - Long Range Planning Committee
  - Draft by December, 2016
  - Evaluation includes
    - Imported water scenarios
    - Water treatment scenarios
    - Land use scenarios
    - Air quality management