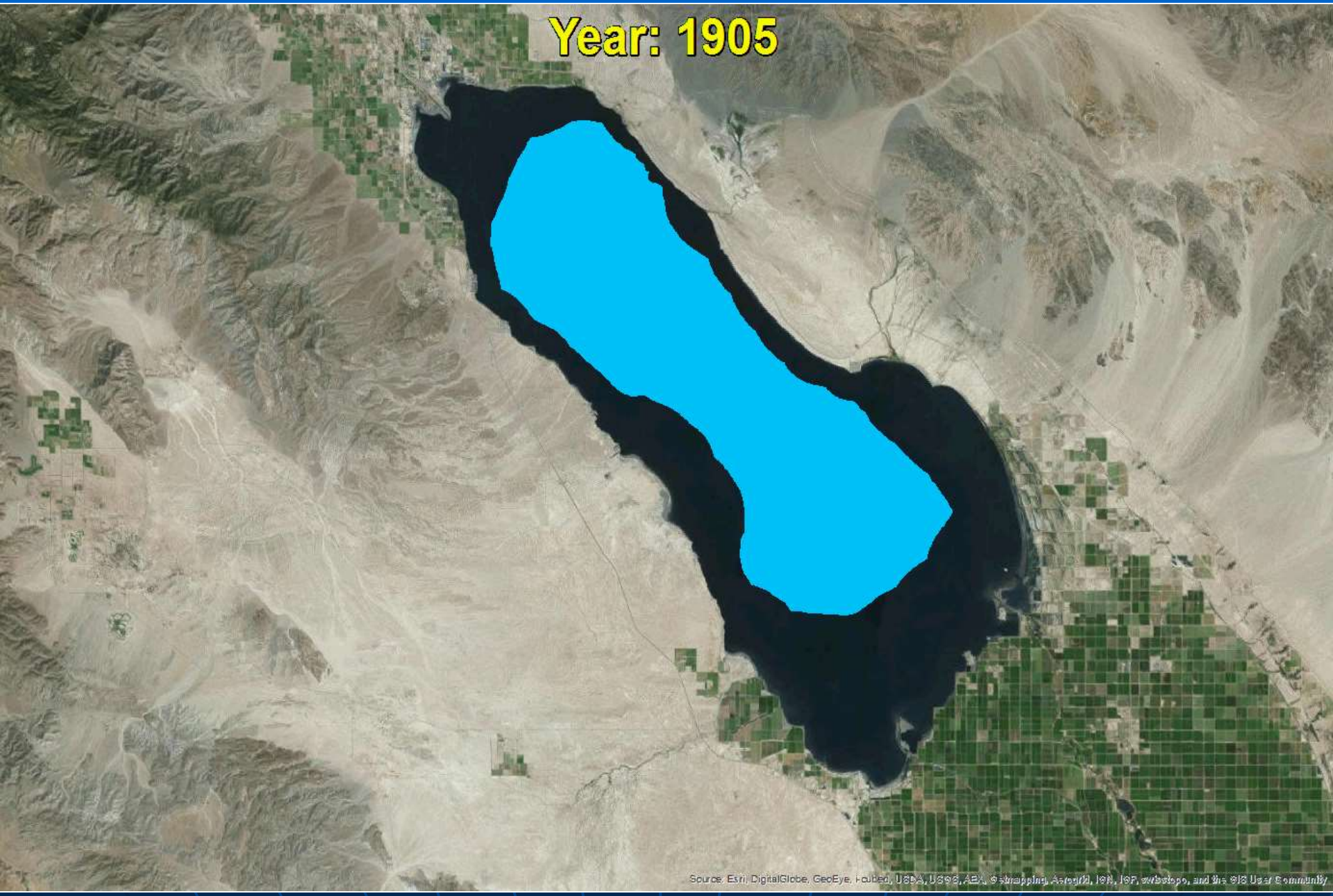
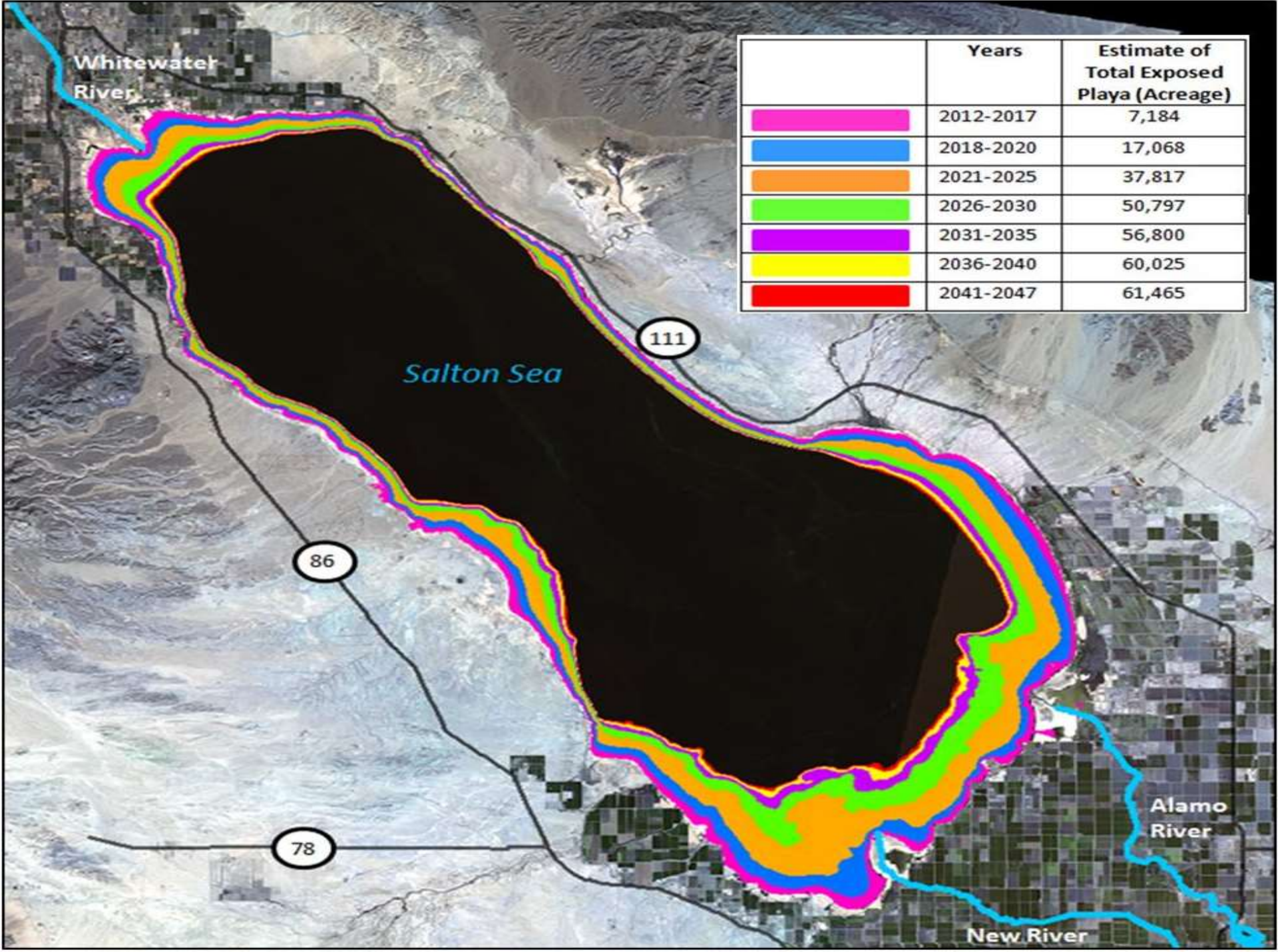
Status of Salton Sea

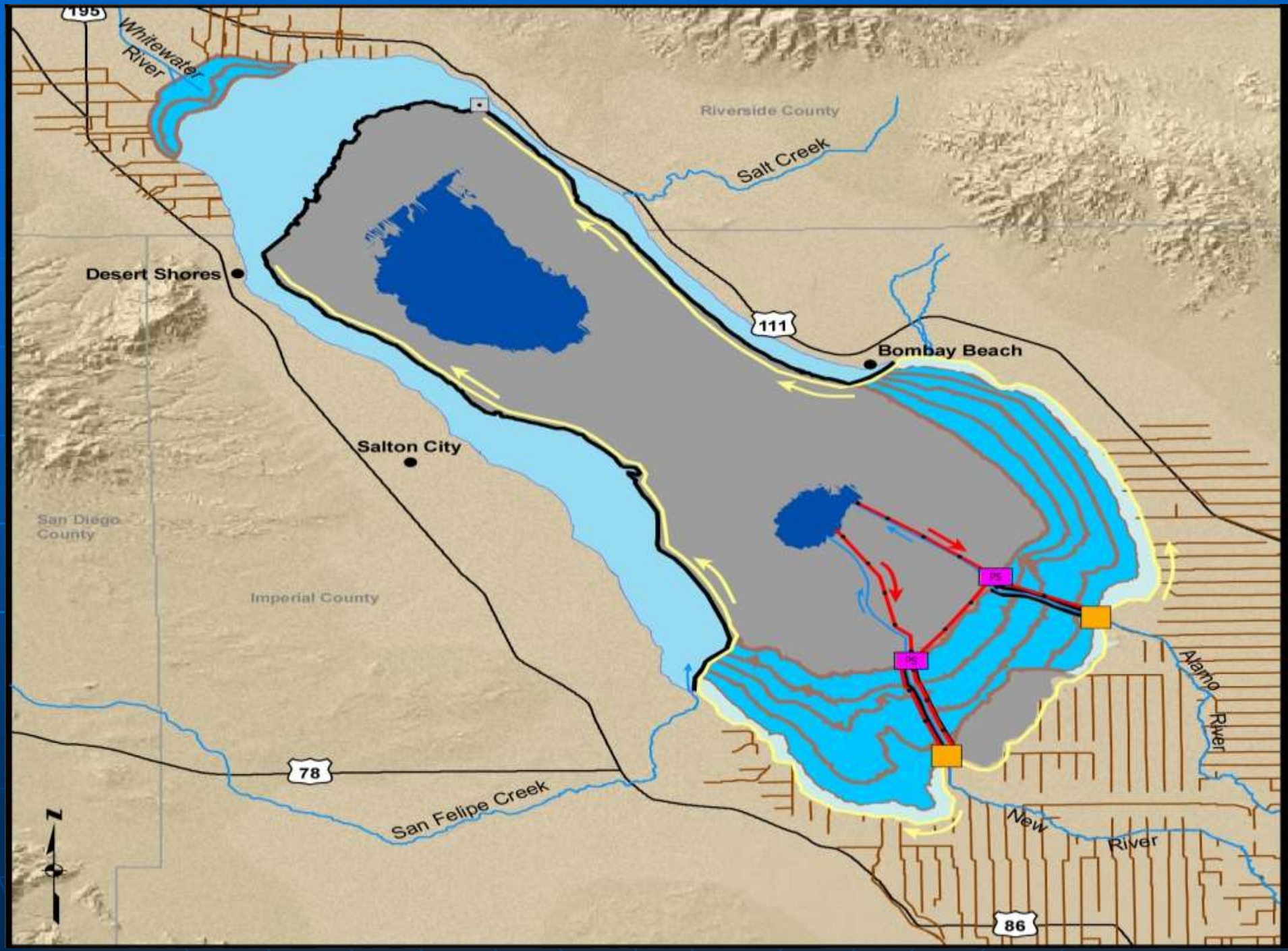
Presented to:

International Boundary and Water Commission Colorado River Citizens Forum


Year: 1905
Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



	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


195
Whitewater River
Riverside County
Salt Creek
Desert Shores
111
Bombay Beach
Salton City
San Diego County
Imperial County
Alamo River
78
San Felipe Creek
New River
86
N

Salton Sea
Restoration Plan
Whitewater River Wetlands
State Park
Saline Habitat
Hunting Opportunities
Fishing Opportunities
Water Sports
Geothermal Expansion
New/Alamo River Wetlands
Saline Habitat Complex
Recreational Saltwater Lake
RIVERSIDE COUNTY
IMPERIAL COUNTY
Dedicated Habitat Zone
Salt Sink
Saline Habitat Complex
IID Colorado River Water Reservoir
Natural Salt Deposit Formation
Managed Salt Deposit Area or Application of Other Dust Suppression Methods
Dedicated Habitat Zone
Recreational Estuary Lake
10
86
111
78
86

SALTON SEA 2001 DAVIS ROAD

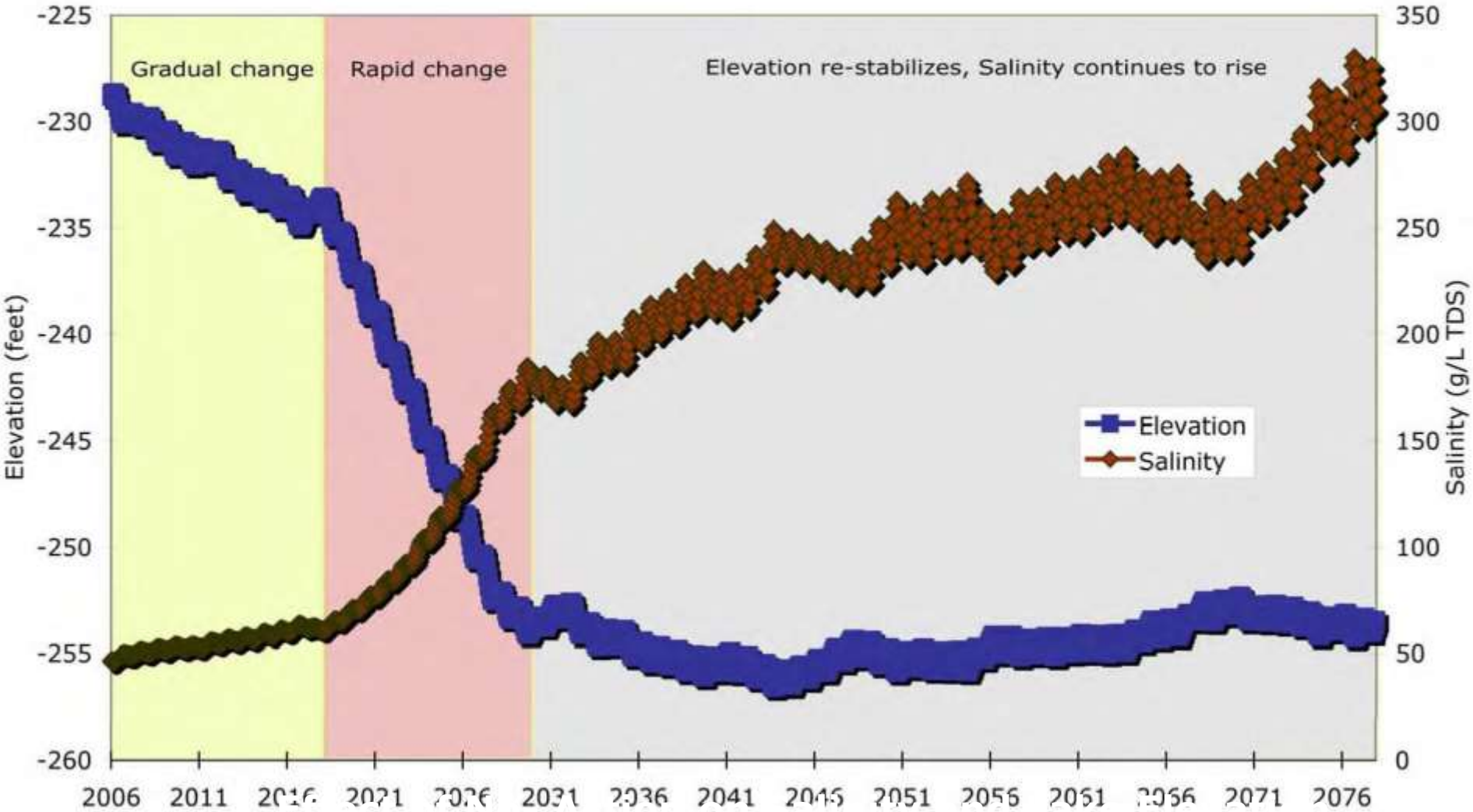
SALTON SEA RED HILL BAY 2010

Control - No application
Rate 3- 0.08 gal/sq yd
Rate 2- 0.12 gal/sq yd
4500
4000
3500
3000
2500
2000
1500
1000
500
0

Site Map: Salton Seawater Marine Habitat Demonstration

Recovered or Encountered
Birds Banded at the Salton Sea
Projection: Lambert Azimuthal Equal Area
0 210 420 840 Miles
Birds Recovered
or Encountered
1 - 100
101 - 300
301 - 600
601 - 3601
Salton Sea
Banding Locations
California
Salton Sea
Prairie Pothole
Region
Texas
Gulf Coast
This map represents birds recovered or encountered throughout North America that were banded at the Salton Sea. Data provided by the USGS Bird Banding Laboratory. This map is a work in progress resulting from an ongoing analysis project of the Salton Sea Science Office.
REDLANDS
INSTITUTE

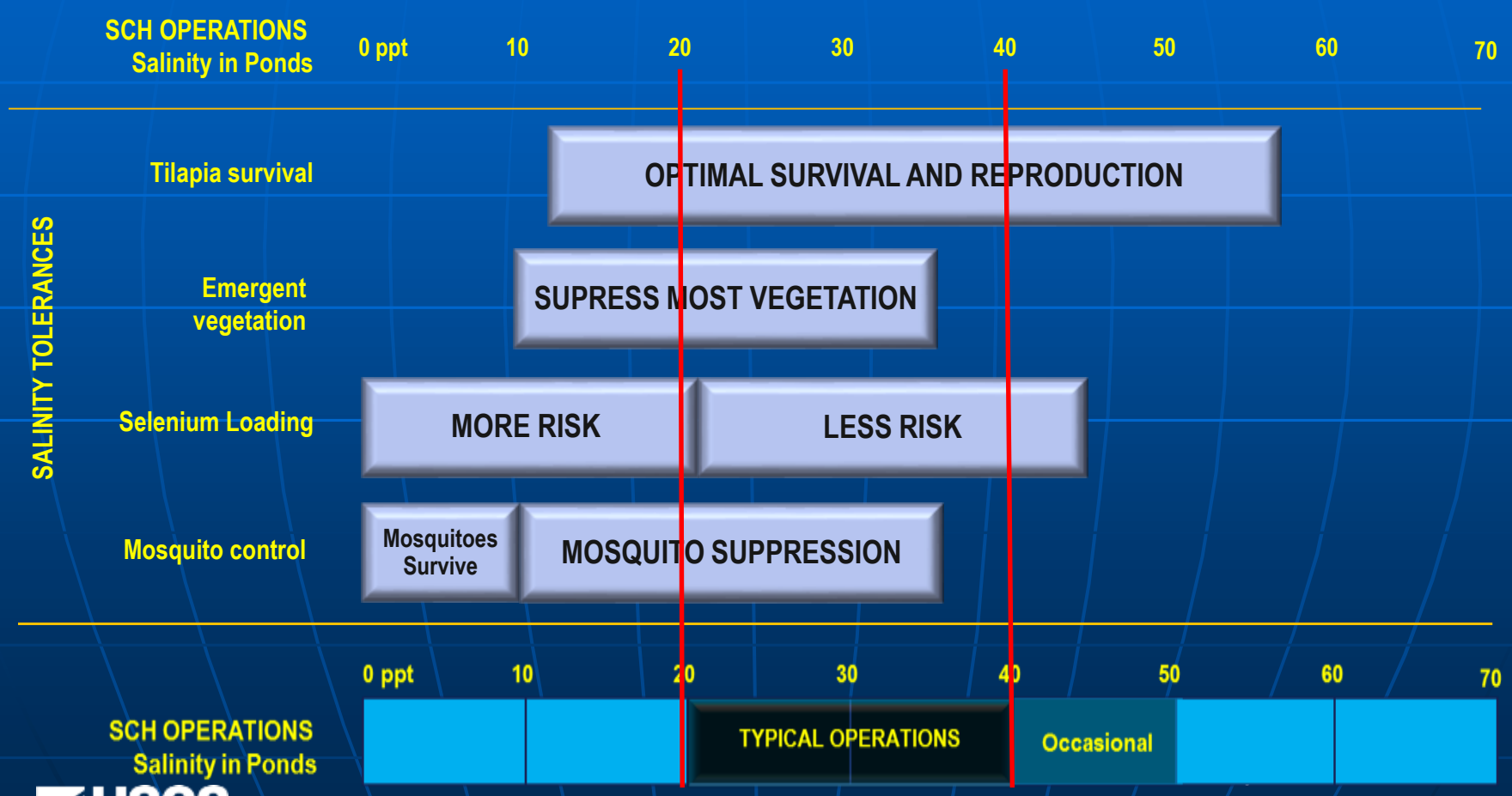
Salton Sea Elevation and Salinity



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



USGS

Red Hill Bay
Shallow Water Habitat

N

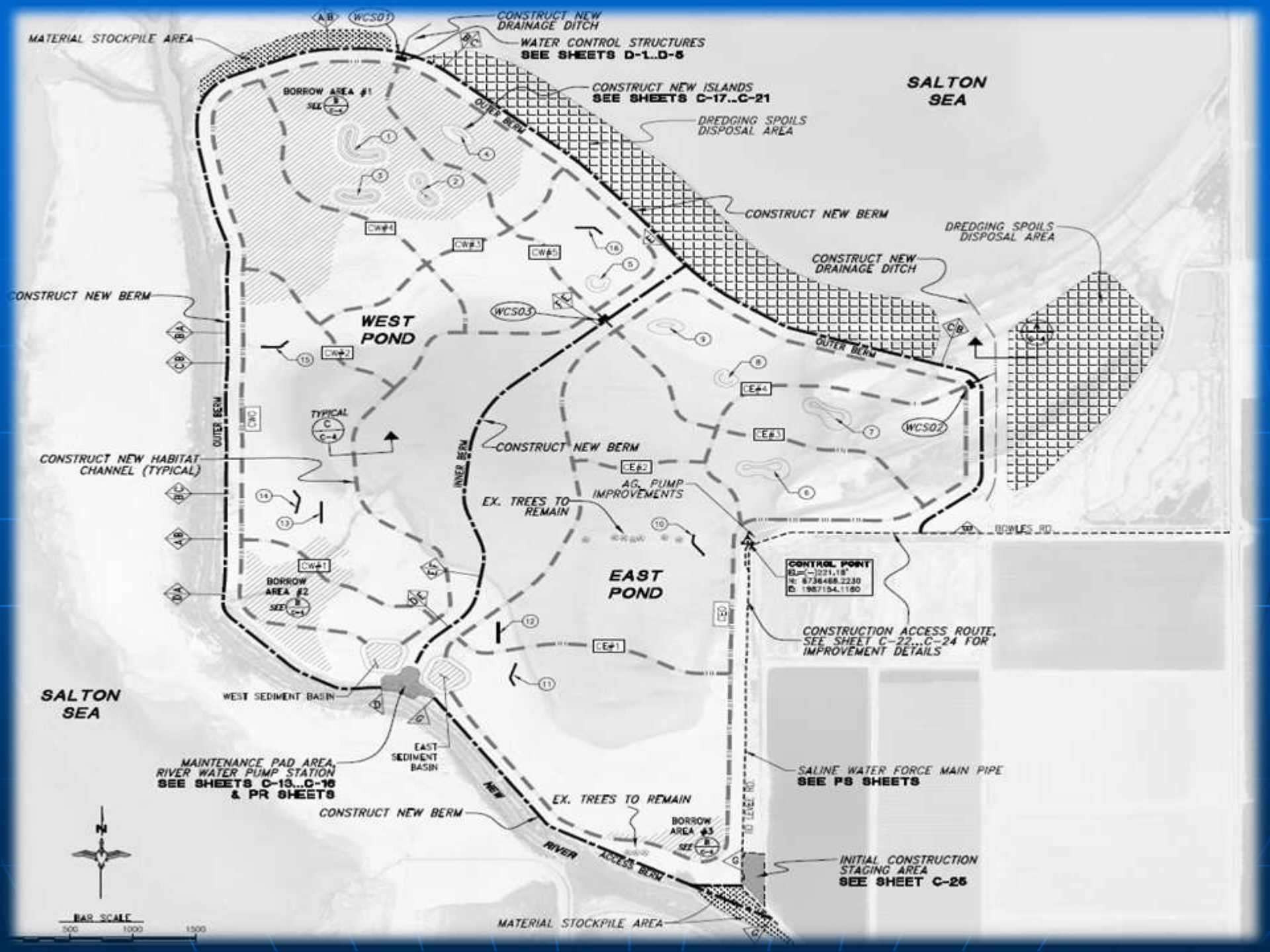
0 430 860 1,290 1,720 Feet

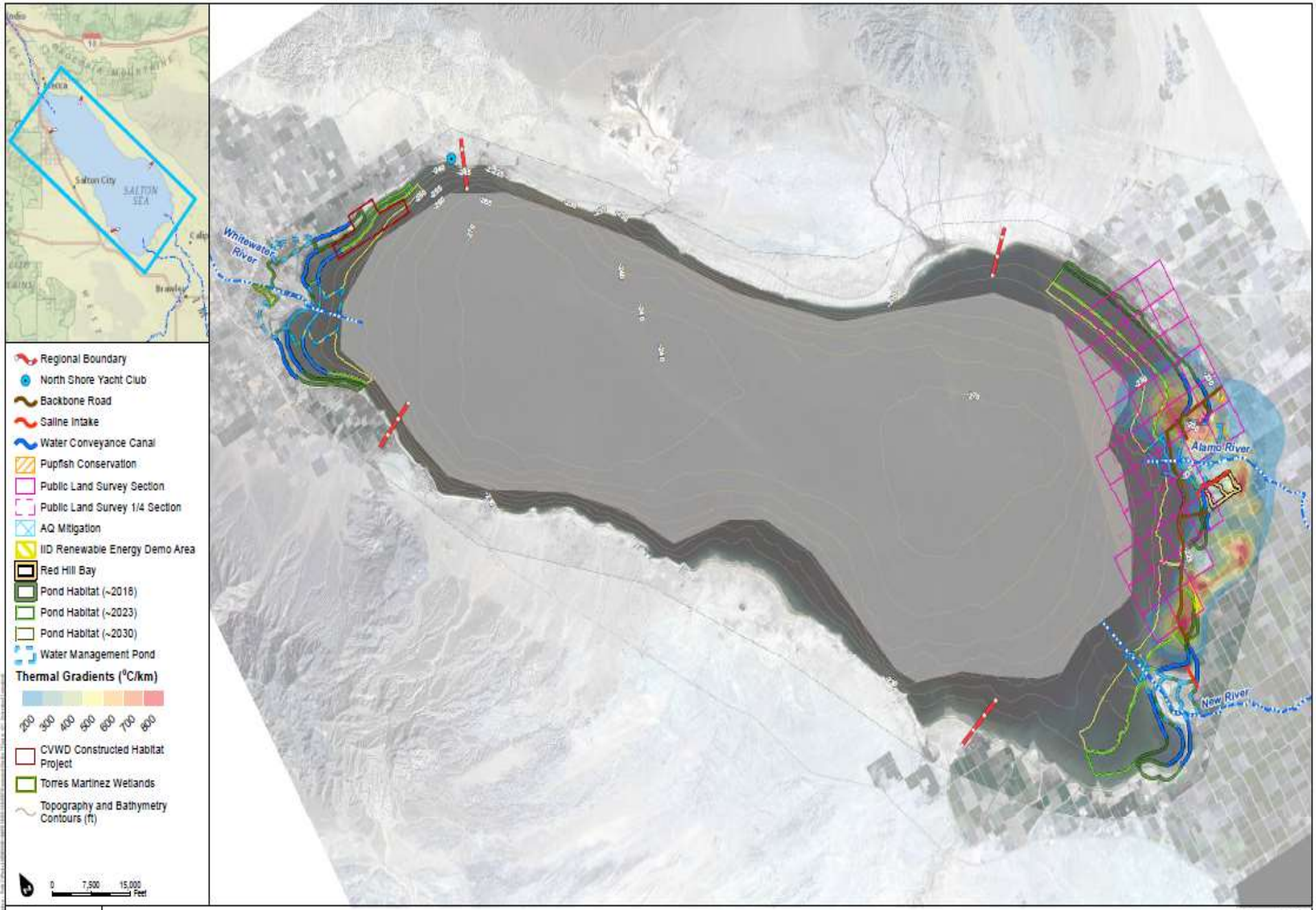
Legend

- Streets
- Electrical Lines
- Conveyance Channel
- Discharge Channel
- Berms
- Islands
- Flow Direction

A temporary drainage channel will be constructed to dry out the project area prior to construction. Cell berms will be approximately 50 feet wide, and Conveyance Channels will be appoximately 50 feet plus the width of the channel. A minimum of 300 foot buffer zone will be left undeveloped for geothermal access on the east and south of the project.

Imperial Irrigation District
Imperial County, California
December 2014


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
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
TYPICAL
CW#1
CONSTRUCT NEW BERM
INNER BERM
CONSTRUCT NEW HABITAT CHANNEL (TYPICAL)
CE#2
AG. PUMP IMPROVEMENTS
EX. TREES TO REMAIN
BOWLES RD
CONTROL POINT
EAST POND
BORROW AREA #2
CE#1
CONSTRUCTION ACCESS ROUTE, SEE SHEET C-22..C-24 FOR IMPROVEMENT DETAILS
SALTON SEA
WEST SEDIMENT BASIN
EAST SEDIMENT BASIN
MAINTENANCE PAD AREA, RIVER WATER PUMP STATION
SEE SHEETS C-13..C-16 & PR SHEETS
SALINE WATER FORCE MAIN PIPE
SEE PS SHEETS
NEW RIVER ACCESS BERM
EX. TREES TO REMAIN
CONSTRUCT NEW BERM
BORROW AREA #3
TO LEVEE RD
INITIAL CONSTRUCTION STAGING AREA
SEE SHEET C-25
MATERIAL STOCKPILE AREA
N
BAR SCALE
500
1000
1500

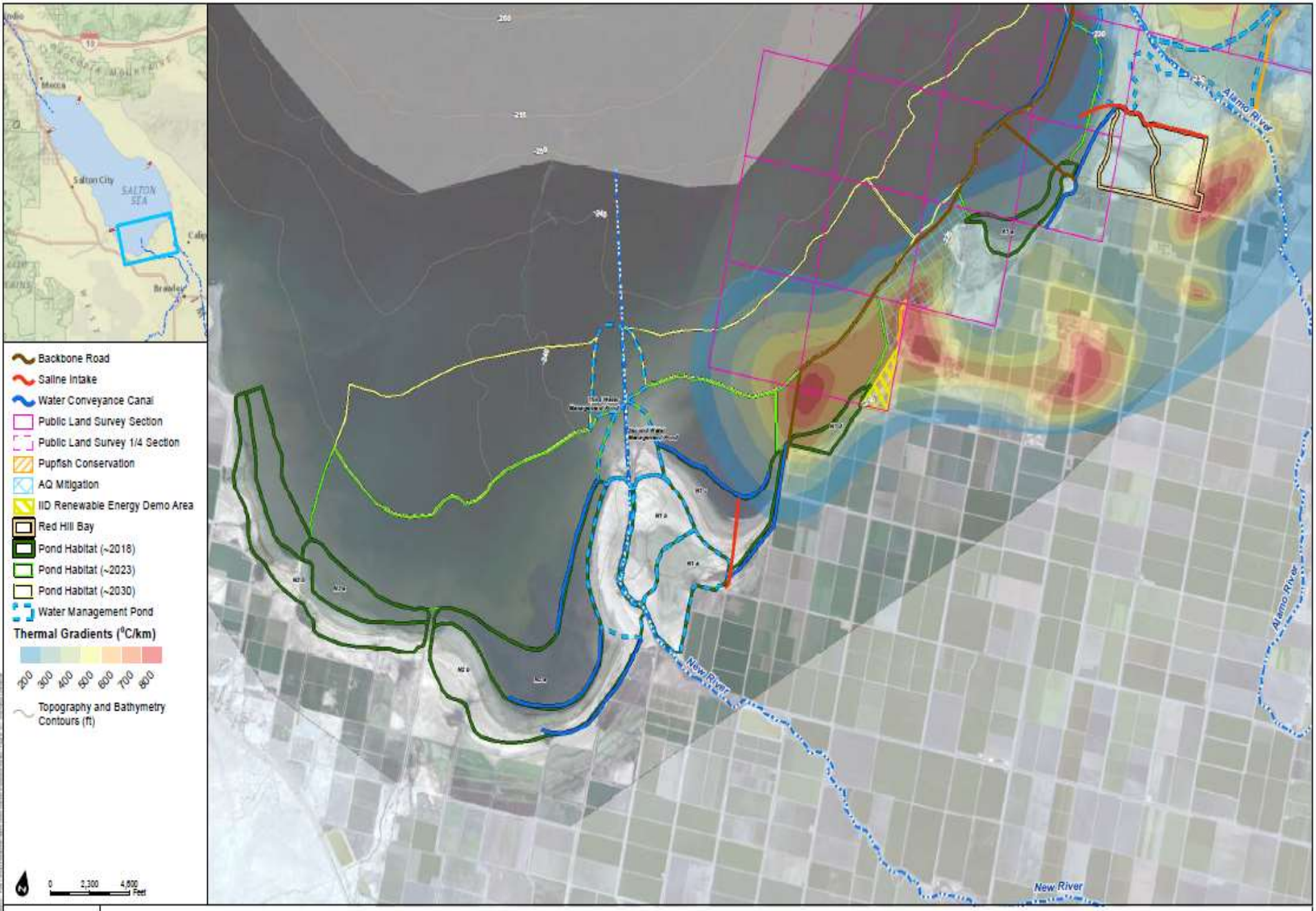


DUDEK

SOURCE: IID 2015, National Geographics 2015, Norton et al 2008

IMPERIAL IRRIGATION DISTRICT

Figure 7-18
Minimize Cost Concept - Overview (circa 2030)

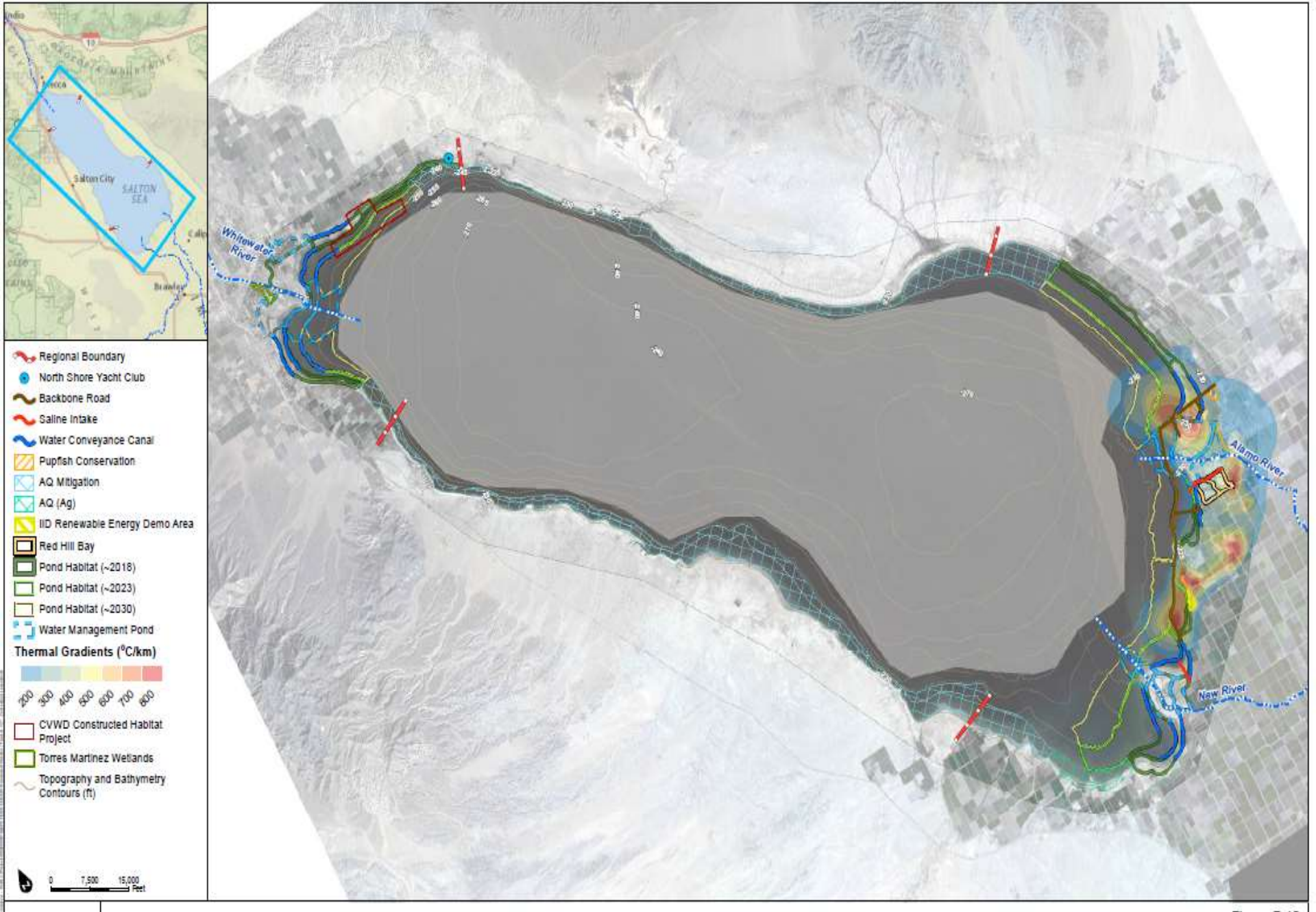


DUDEK

SOURCE: IID 2015, National Geographics 2015, Norton et al 2008

Figure 7-7
Maximize Multiple Habitats Concept - Southwest/New River (circa 2030)

IMPERIAL IRRIGATION DISTRICT



SOURCE: IID 2015, National Geographics 2015, Norton et al 2006

DUDEK

IMPERIAL IRRIGATION DISTRICT

Figure 7-12
Maximize Air Quality Mitigation Acreage Concept - Overview (circa 2030)