SAN DIEGO COUNTY DAM PLANNING

Unified Disaster Council

April 20, 2017

HOW MANY DAMS?

- Dams Within San Diego County: 58
- Dams Outside of San Diego County: 4
  - Rodriguez (Mexico)
  - Skinner Clearwell (Riverside County)
  - Skinner Reservoir (Riverside County)
  - Vail (Riverside County)

Total Dams Within/Affecting our County: 62

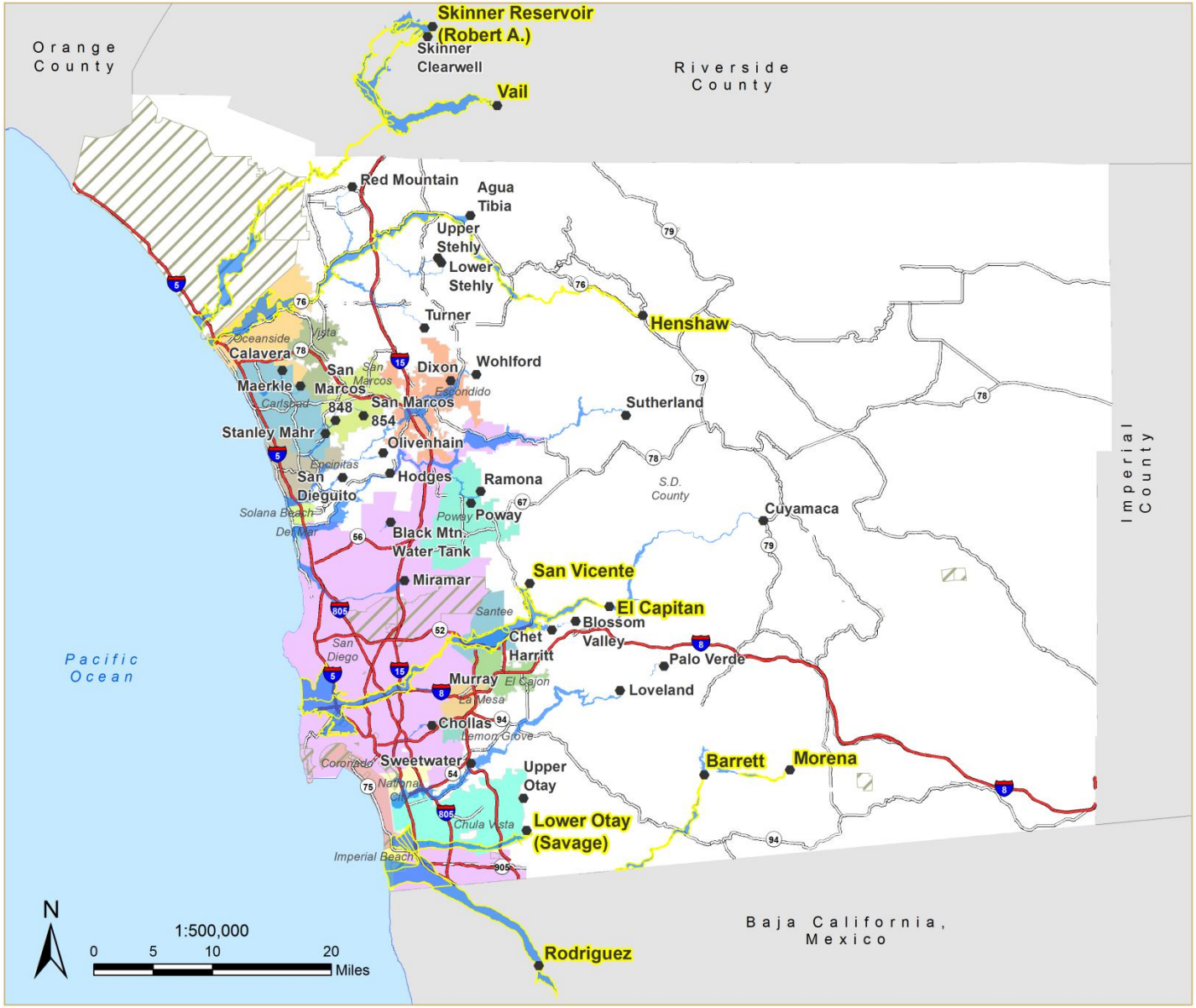
DAM OWNERS

- City of San Diego
  - 14 Dams
- City of Escondido
  - 2 (Dixon and Wohlford)
- City of Poway
  - 1 (Poway)
- City of Chula Vista
  - 1 (Bonita Long Canyon)
- Helix Water District
  - 2 (Jennings and Cuyamaca)
- Sweetwater Authority
  - 2 (Loveland and Sweetwater)
- Vista Irrigation District
  - 1 (Henshaw)
- County Water Authority
  - 1 (Olivenhain)
- Other Water Districts
  - 17
- U.S. Marine Corps
  - 4 (Case Springs; Oneill; Pilgrim, Pulgas)
- Private Entities
  - 13
- Miscellaneous
  - 4
    - Lake Cuyamaca Rec & Park District
    - Fallbrook Public Utility District
    - Santa Fe Community Services District
    - Mexico

LARGEST DAMS

Dam	Acre Feet Capacity
San Vicente	245,000
El Capitan	112,800
Rodriguez	111,070
Vail	51,000
Morena	50,206
Henshaw	50,000
Lower Otay	47,066
Barrett	44,755
Skinner Reservoir	43,800

LOCATION OF DAMS

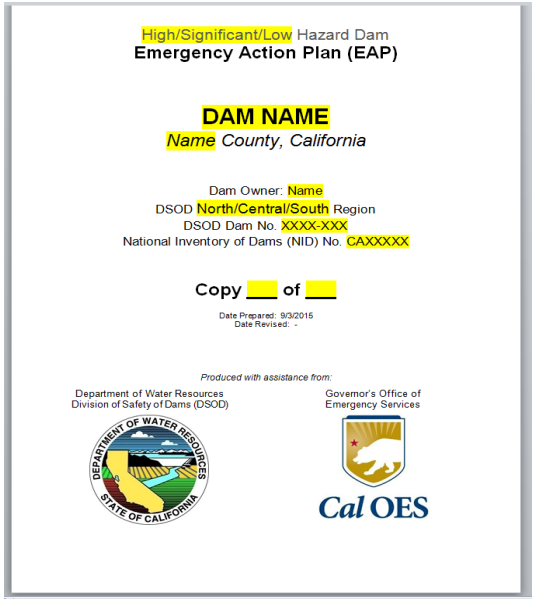


ESTIMATED DOWNSTREAM POPULATIONS
FROM ESRI COMMUNITY ANALYST

	TOTALS FOR 38 DAMS			
	Inundation Zones			
	Daytime Population	Nighttime Population	Total Businesses	Total Housing Units
All 38 Inundation Zones	**250,969**	**268,044**	**19,586**	**99,188**

DAM OWNER RESPONSIBILITIES

- Operation/Maintenance/Safety of Dams
- Creation of Inundation Studies/Maps
- Encouraged to Develop Emergency Action Plans



High/Significant/Low Hazard Dam
Emergency Action Plan (EAP)

DAM NAME
Name County, California

Dam Owner: Name
DSOD North/Central/South Region
DSOD Dam No. XXXX-XXX
National Inventory of Dams (NID) No. CAXXXXX

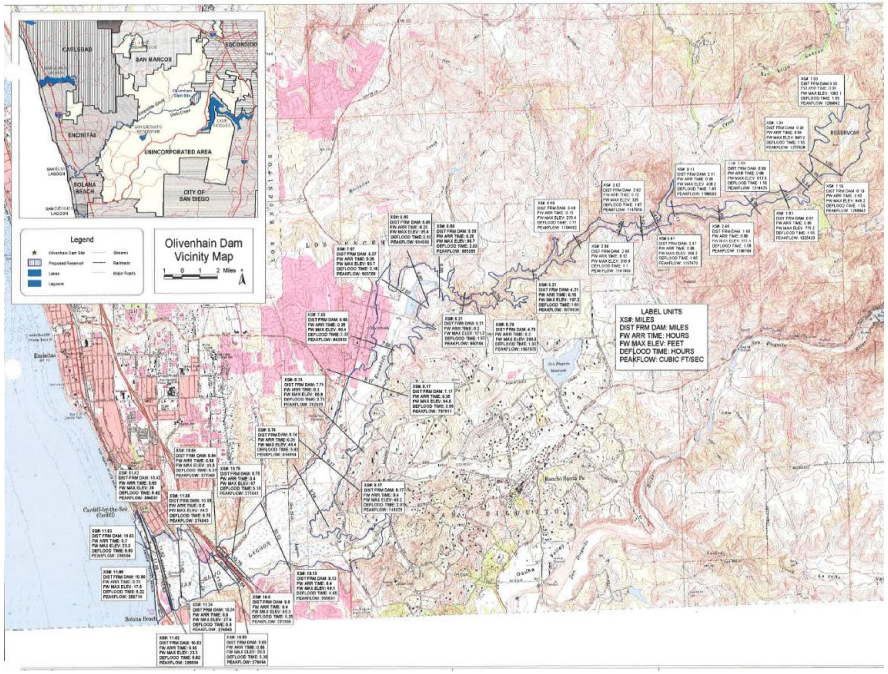
Copy ___ of ___

Date Prepared: 9/3/2015
Date Revised: -

Produced with assistance from:

Department of Water Resources
Division of Safety of Dams (DSOD)

Governor's Office of
Emergency Services



OES PLANNING RESPONSIBILITIES

- Development of Dam Emergency Response Plans
- Development of Dam Emergency Response Maps, based on Dam Owners' Inundation Data

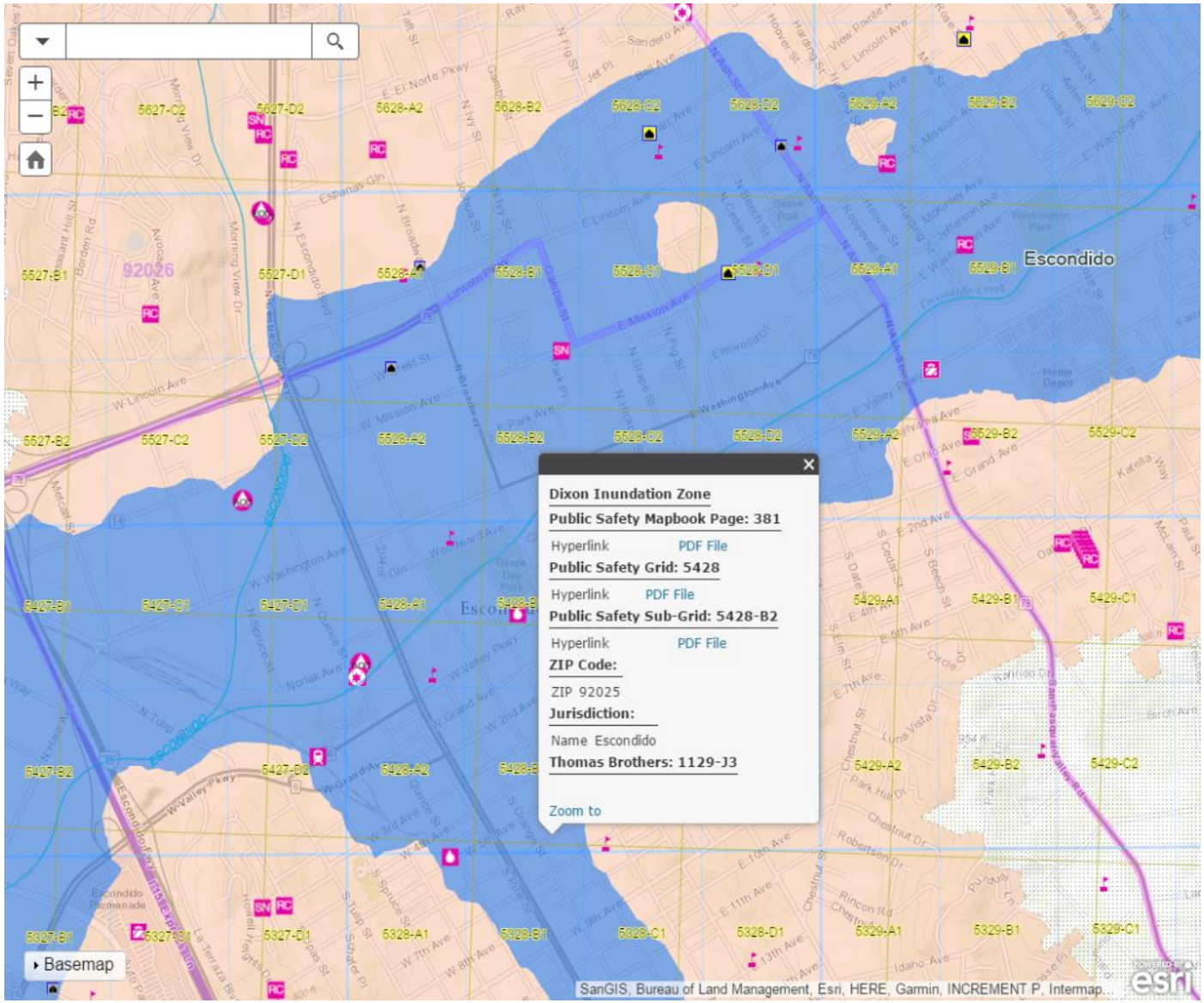
OES RESPONSE ACTIONS

- Public Alert and Warning
- Notify Response Agencies
- Operational Area Emergency Operations Center Activation/Coordination
- Emergency Public Information

DAM EMERGENCY RESPONSE PLANS

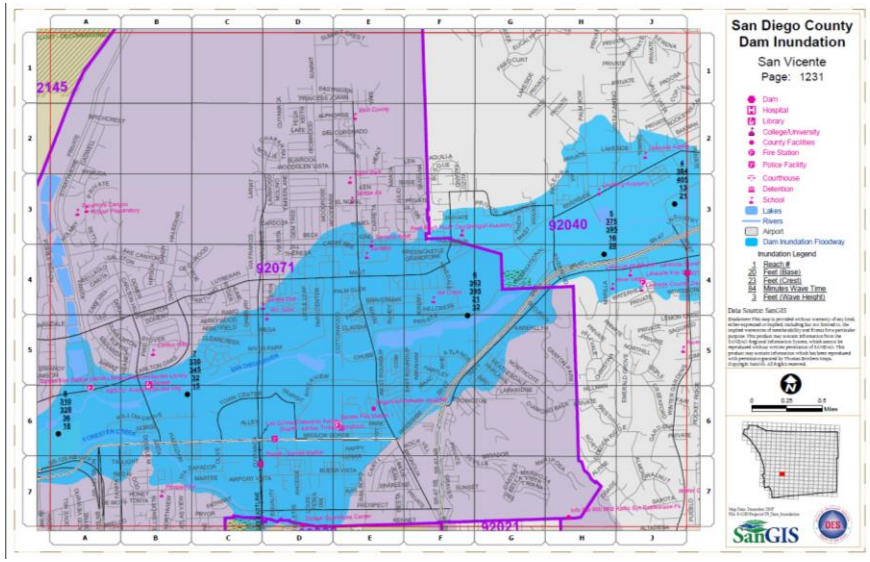
- Key Areas of Dam Plans
  - OES and Law Enforcement Actions
  - Pre-Scripted Messaging for:
    - AlertSanDiego (Phone/Email/Text), Wireless Emergency Alerts, and Emergency Alert System
  - Evacuation Routes and Traffic Control Points
  - Potential Shelters, Incident Command Posts and Staging Areas
  - Unique Institutions
    - Hospitals, Schools, Skilled Nursing Facilities, Retirement Homes, Stadiums/Arenas, etc.

DAM PLANNING APPLICATION

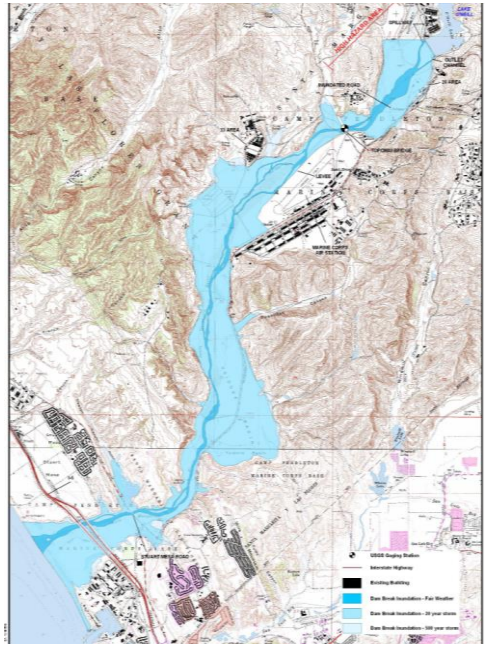


NUMBER OF INUNDATION MAPS

- Useable Maps (GIS Shapefiles) to create Dam Emergency Response Plans
  - **38**



- Dams without Useable Maps
  - **24**
    - 20 – No Source Data
    - 4 – Non-GIS Format



DAM EMERGENCY RESPONSE PLANS

- Remaining Items:
  - Public Safety Grid Map Coordinates
  - Evacuation Routes/Traffic Control Points
  - Shelters within 5-7 miles from inundation zone
  - Unique Institutions Phone Numbers

PATH FORWARD

- Meet with Law Enforcement Agencies
- Meet with Cities
- Continue to Try and Obtain Missing Inundation Maps