

State of the Lake



April 20, 2017

Southern California's Largest Natural Freshwater Lake

3,000

**Surface
Acres**

14

**Miles of
Shoreline**

1

**Ultimate
Destination**

Natural Beauty

Wildlife

**Lake Elsinore is the
Destination for Extreme ...**



Action Sports

Family Fun

**Economic
Development**

Our Most Valuable Asset...



*Lake Elsinore will be the **ultimate lake destination** where all can live, work and play, build futures and fulfill dreams.*

And Our Biggest Challenge

Projects Boost Lake's Water Quality

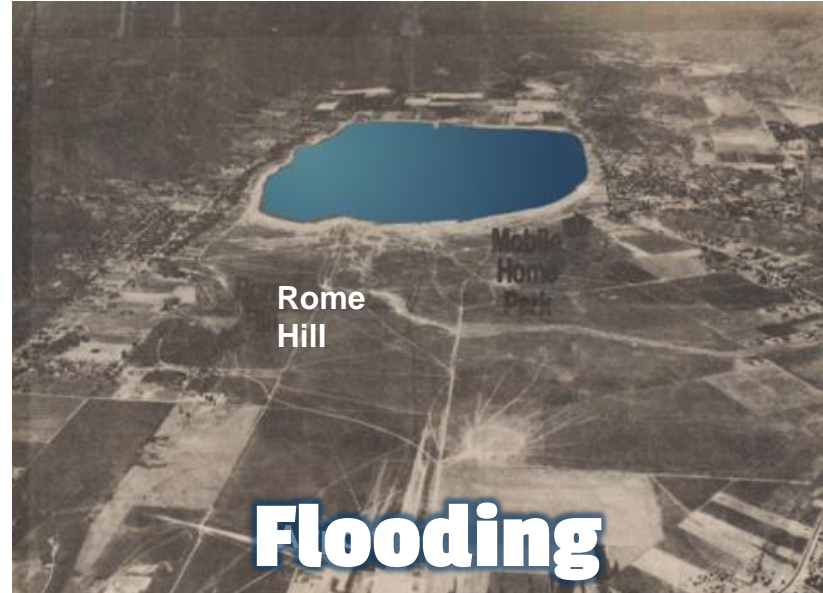


Challenges for Lake Elsinore

Droughts



Flooding



Fish Kills



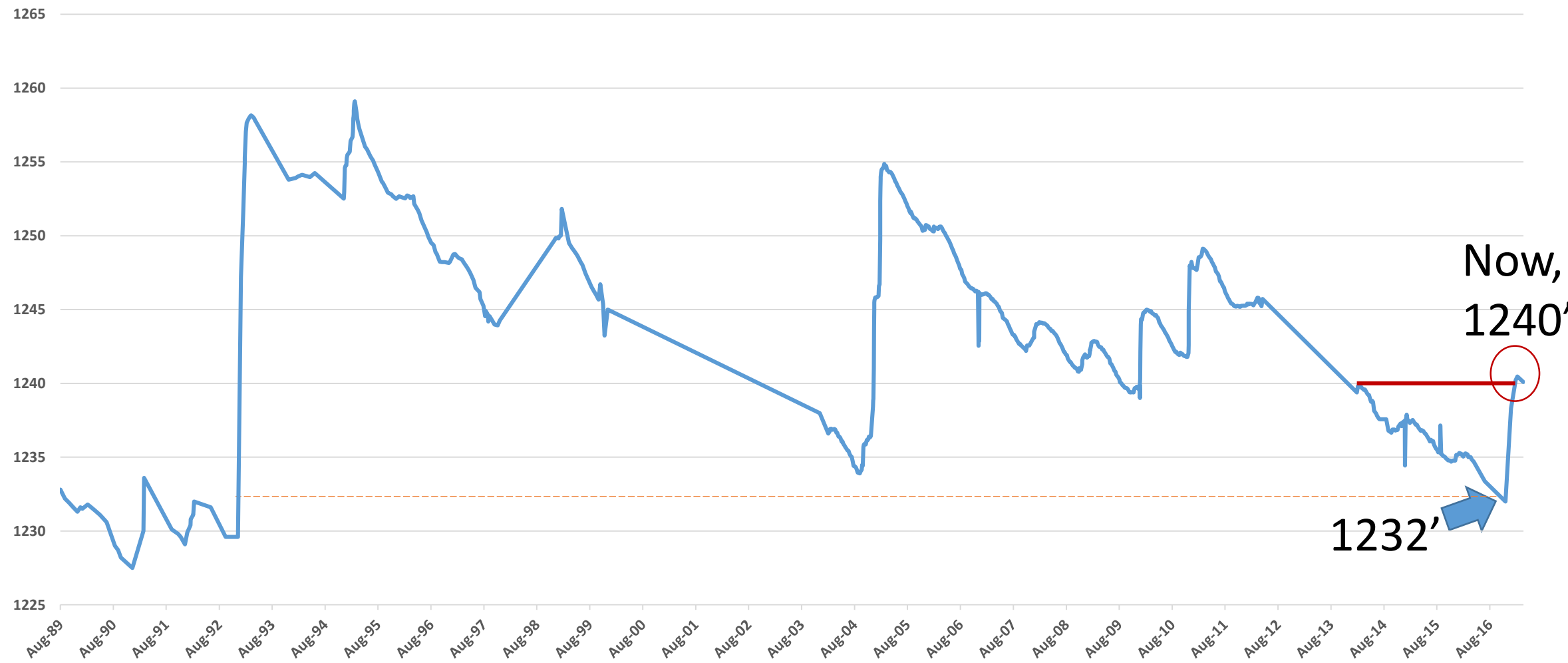
Algae Blooms



Struggling Lake Levels



Lake Elsinore Water Elevations



Lake Elsinore is a Freshwater Lake



Historic Rainfall 1993 - 2004

1993	25.20
1994	10.14
1995	18.92
1996	7.31
1997	8.35
1998	24.41
1999	5.79
2000	6.20
2001	9.10
2002	2.90
2003	13.52
2004	6.70

Historic Rainfall 2005 - 2016

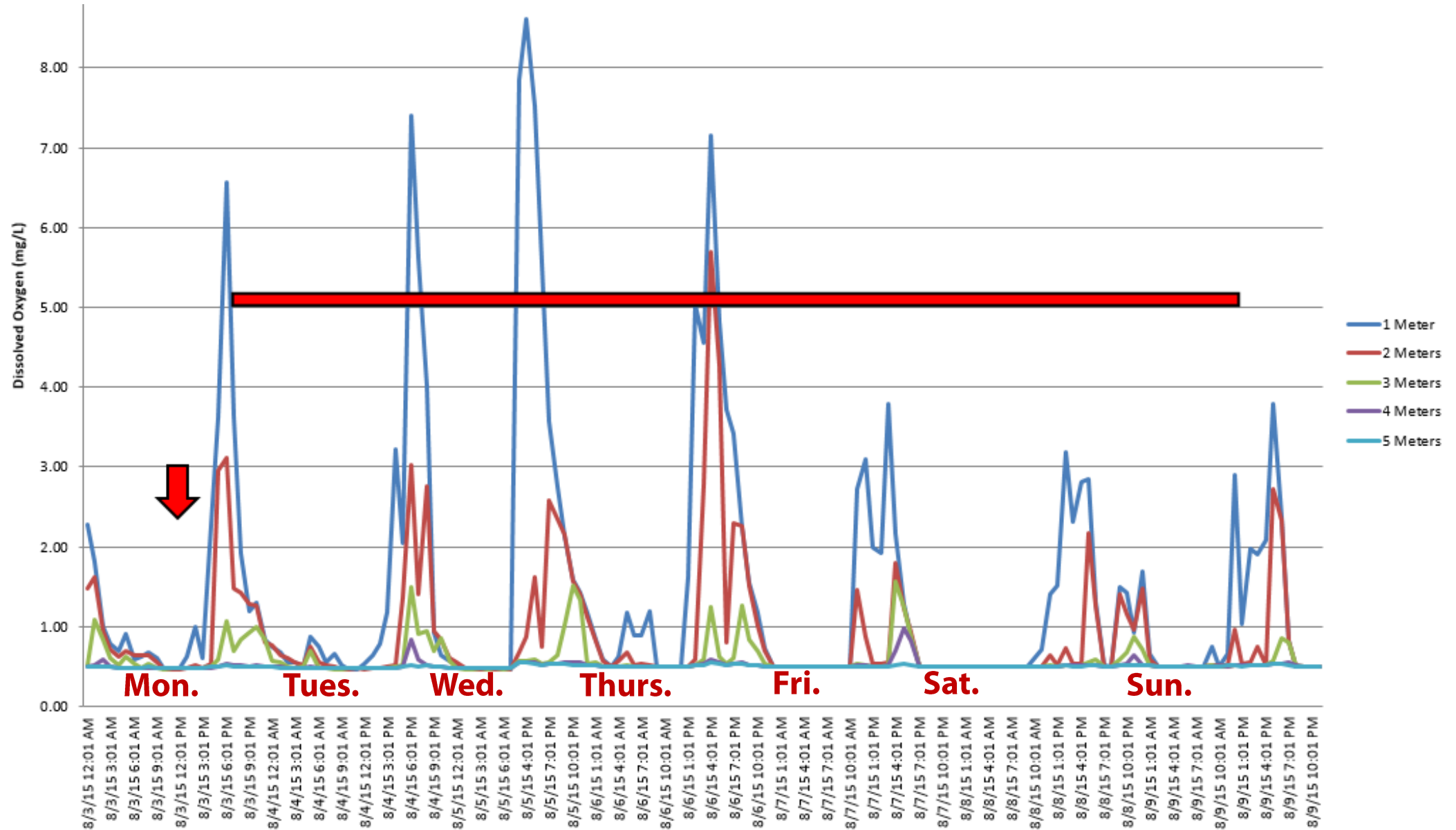
2005	28.80
2006	8.62
2007	1.60
2008	9.34
2009	8.81
2010	11.39
2011	14.97
2012	5.78
2013	4.42
2014	4.59
2015	7.01
2016	6.62
2017	14.61

Spill Overs into LE

2003	11 wks
2004	6 wks
2005	18 wks
2006	4 wks
2007	-
2008	4 wks
2009	1 wk
2010	5 wks
2011	5 wks
2012	-
2013	-
2014	-
2015	-
2016	1 wk
2017	4 wks

Average Rainfall: 11 inches

Dissolved Oxygen Levels



Managing a Complex Waterbody



- **Summer 2013** – Lake Level Above Optimal Level of 1240'
- **Summer 2014** – Free Boating Days
- **May 2015** – Fish Survey Shows Imbalance
- **July 2015** – Launched Lake Watch
- **August 2015** – Minor Fish Kill
- **Summer 2016** - Lake Levels Lowest in 23 years
- **July 2016** – Suffer New Blue-Green Algae Blooms
- **Summer 2016** – Lake closes, Reopens to Limited Body Contact



Date	Population (fish/acre)	Mean Size ^a (cm)	Fish >20 cm ^a (fish/acre)
April 24, 2008	18,090	4.7	1,050 (5.8%)
March 15, 2010*	2,867	4.0	6 (0.2%)
Dec. 1, 2010	27,720	4.3	273 (1.0%)
April 2, 2015	56,600	1.8	12 (0.02%)

SOURCE: Dr. Anderson

*After fish kill in summer 2009

Creating the Ultimate Destination

1

Ultimate
Experience



3

Fishing
Beaches



2

Boat Launches
& Public
Beaches



Pumping Up Namesake ...

- Reduced Lake Use Fees
- Designated Swimming Areas
- Inviting New Concessionaires
- Additional Recreational Programs
- La Laguna Resort & Boat Launch Renovations
- Increased Fish Stocking Program



Expanding Recreational Opportunities

- Inflatable towables
- Personal watercraft courses
- Night boating provisions
- New annual lake passes
 - Launch passes
 - Resort passes
 - Fishing passes



What's Next for Lake Elsinore

- Allow MORE Fishing Spots
- Create NEW Signage
- Capture Economic Development Opportunities
- Launch **Lake Watch 2017**
- Ongoing Water Quality Monitoring
- Explore Short & Long-Term Mitigation Strategies
- Seek Federal and State Support
- Research Funding/Revenue Opportunities
- Continue Collaboration and Communication with Regional Partners and Community.

