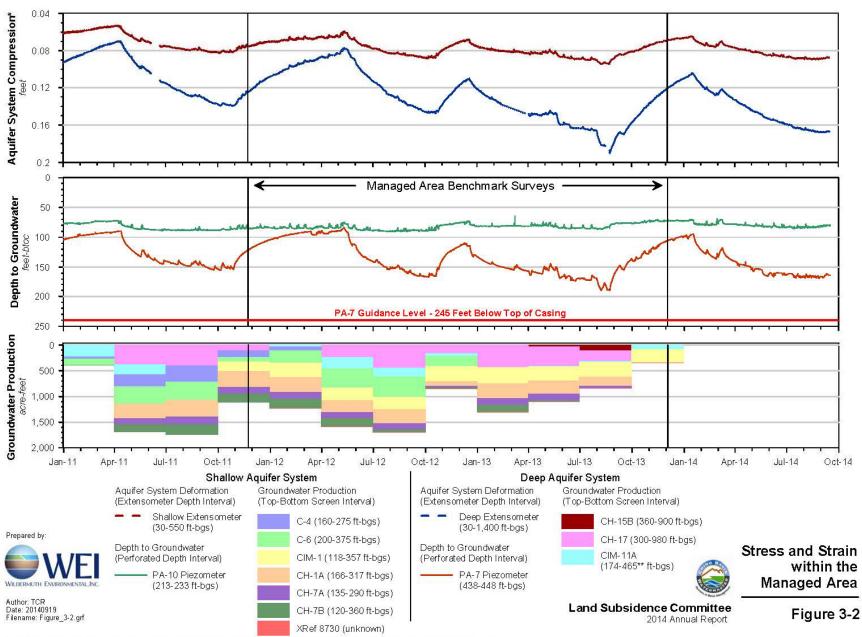
Land Subsidence Monitoring Program

FY 2014-15

- Long-Term Pumping Test Test the Guidance Level
- Chino Hills ASR Test Rehabilitate and Retrofit CH-16
- Routine monitoring: production, piezometric levels, and extensometers
- InSAR Five interferograms during FY 2014-15
- Ground-level Surveys
 - Managed Area vertical survey and EDMs at maximum drawdown (below Guidance Level) and maximum recovery
 - Southeast Area vertical survey, fall 2014
 - Pomona Area vertical survey and EDMs at San Jose Array, fall 2014



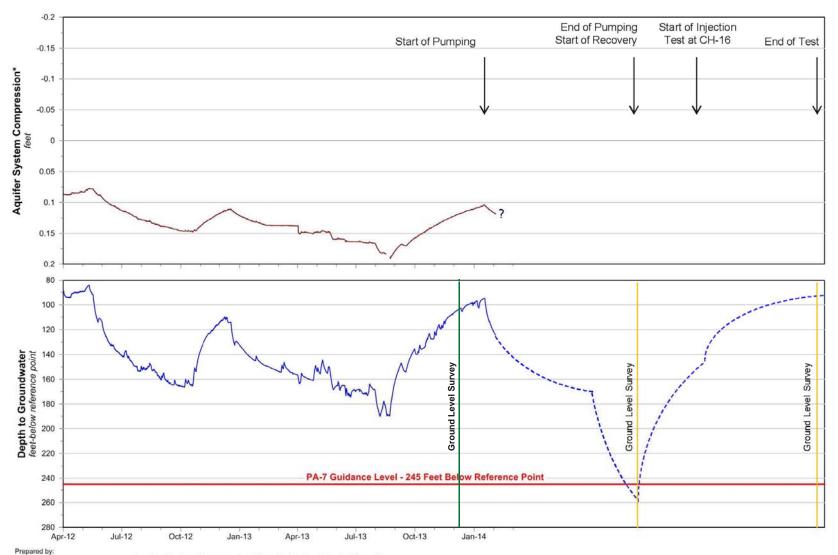
^{*}Positive compression values represent compression of soils, negative compression values represent expansion of soils

^{**}The original casing was perforated from 135-148, 174-187, 240-283, 405-465, 484-512, 518-540 ft-bgs. This casing collapsed below 470 ft-bgs in 2011. A liner was installed to 470.5 ft-bgs with screen interval from 155 to 470 ft-bgs.

Long-Term Pumping Test

FY 2014-15

- Pumping at CH-15 has not commenced, and there is no time table for start up. It is unlikely that the Guidance Level will be tested this fiscal year.
- Should the Watermaster conduct the surveys in the Managed area in fall 2014 if drawdown at PA-7 does not fall below the Guidance Level?
 - Managed Area Fall surveys: 2001, 2003, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2013
 - Fall 2014 survey = \$34,770 (if conducted with SE Area survey)
 - Spring 2015 survey = \$36,600



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Aquifer System Compression (Aquifer System Depth Interval)

Ayala Park Deep Extensometer (30-1,400 feet-bgs)

Groundwater Levels at Wells (Perforated Depth Interval)

PA-7 (438-448 feet-bgs)

- - - Predicted Record for PA-7 During Test

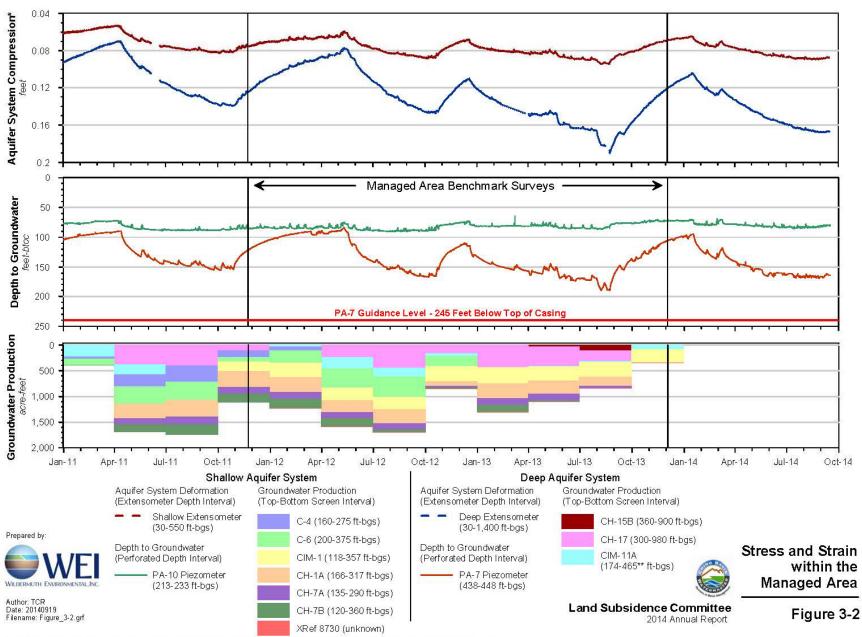


2013 Annual Report

Long-Term Pumping Test Managed Area

Figure 4-2

*Positive compression values represent compression of soils, negative compression values represent expansion of soils.

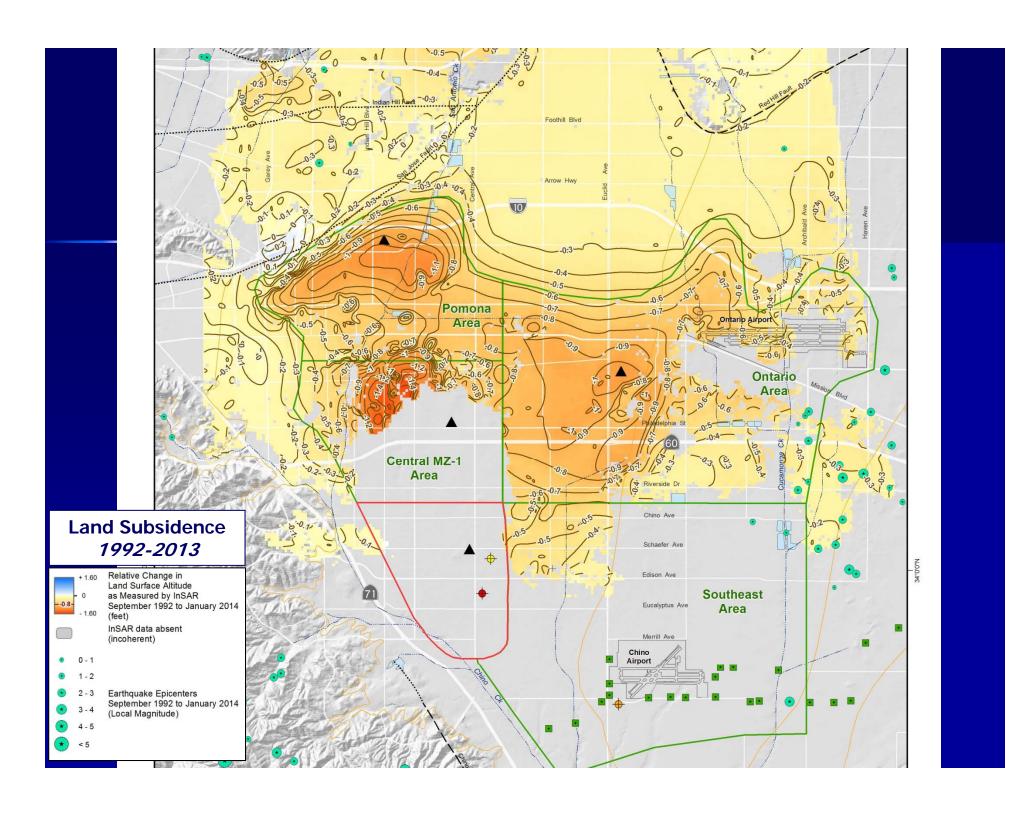


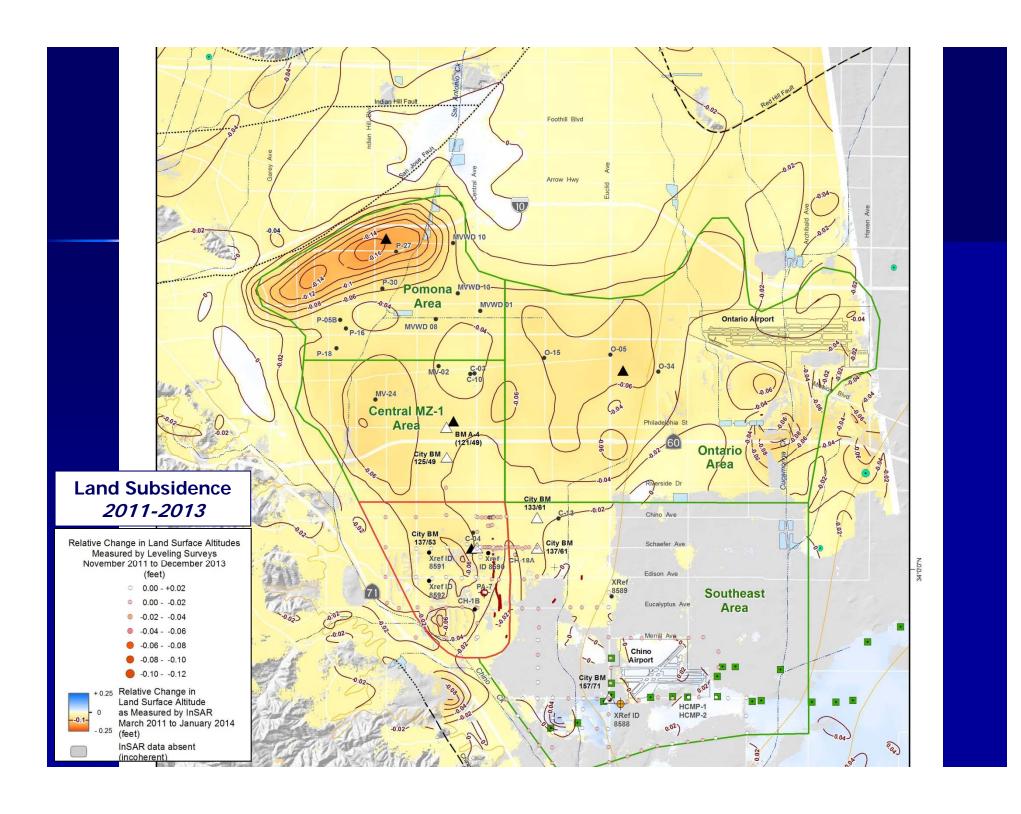
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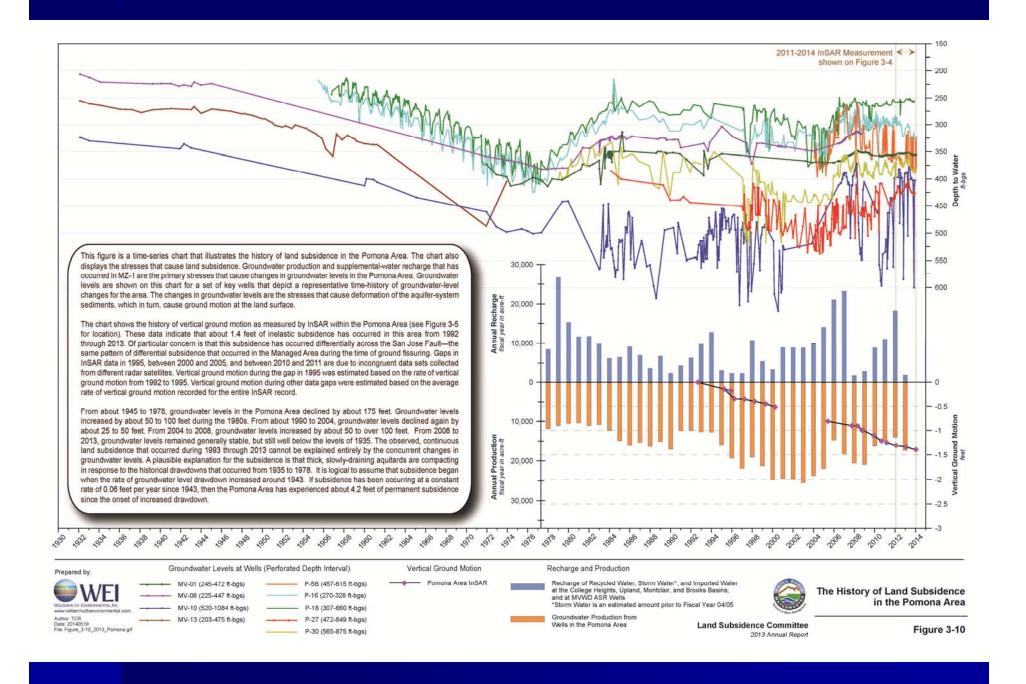
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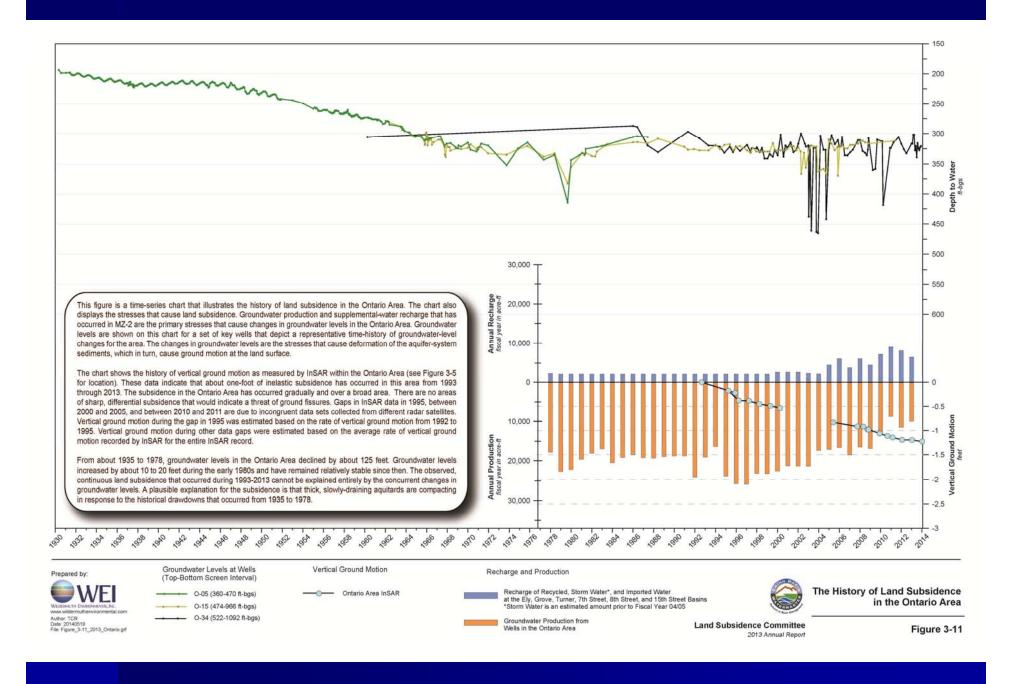
Update of the Subsidence Management Plan

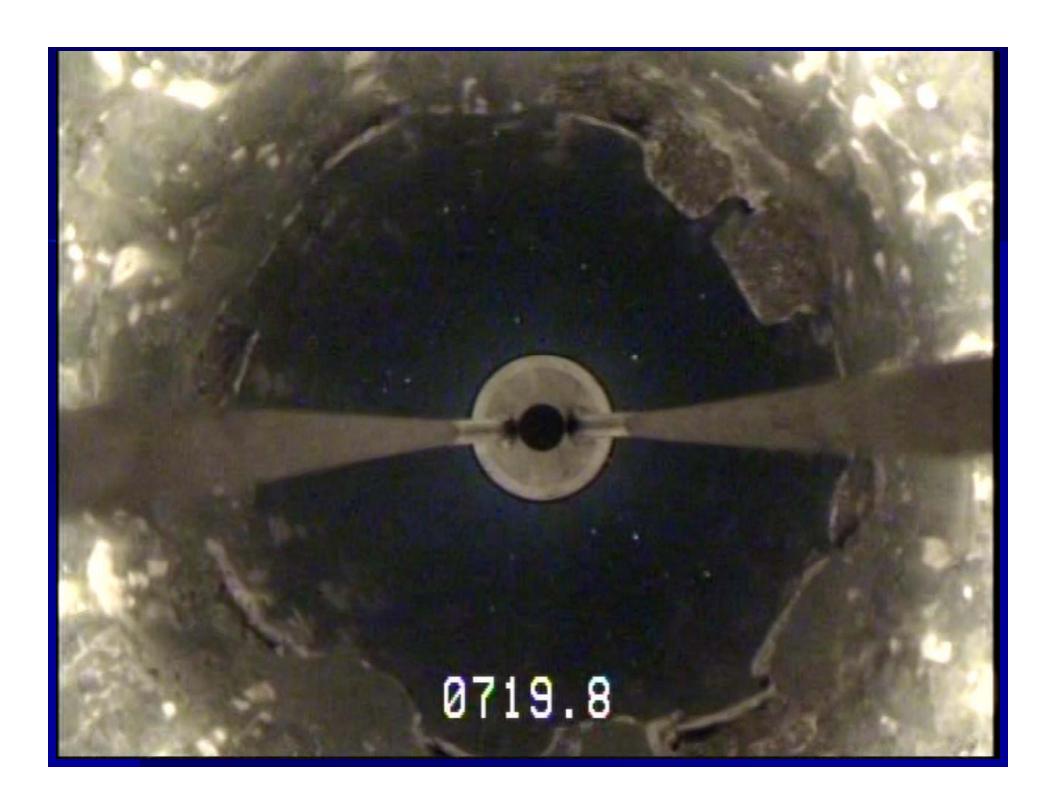
- Update to include:
 - Watermaster's current and future efforts with regard to the monitoring and management of land subsidence
 - Watermaster's commitment to develop the Pomona Management Plan
 - A description of the Pomona Subsidence Investigation to help develop the subsidence management plan for the Pomona Area (w/ costs and schedule)

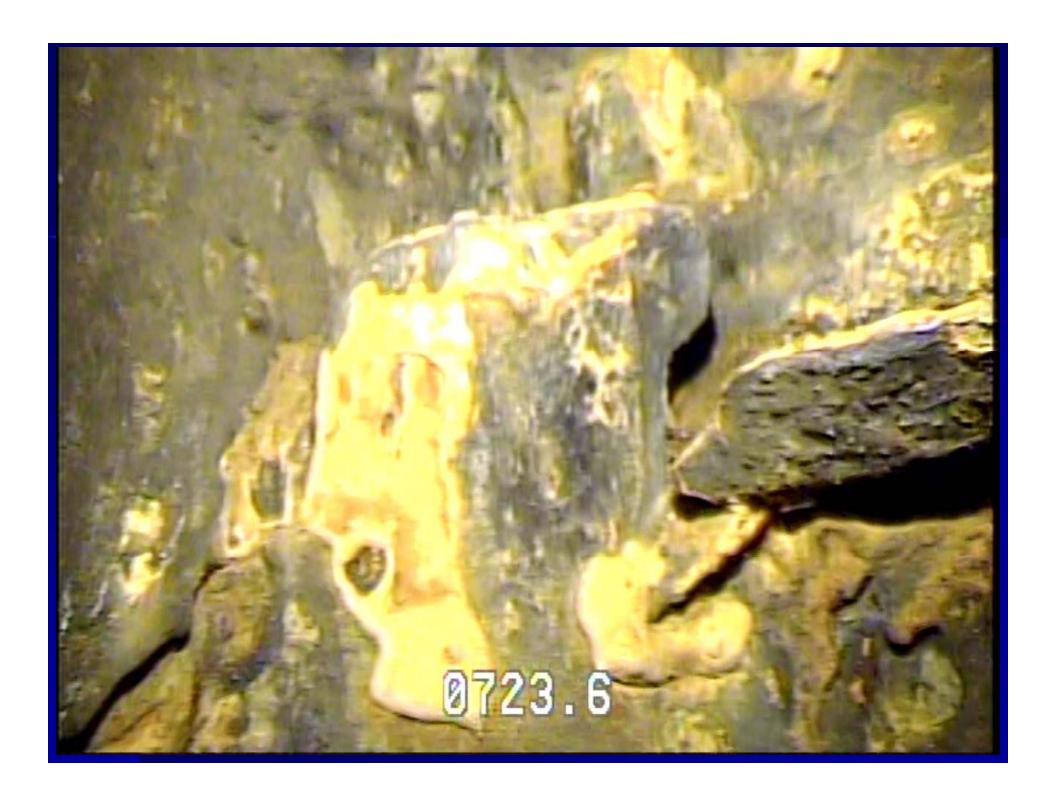


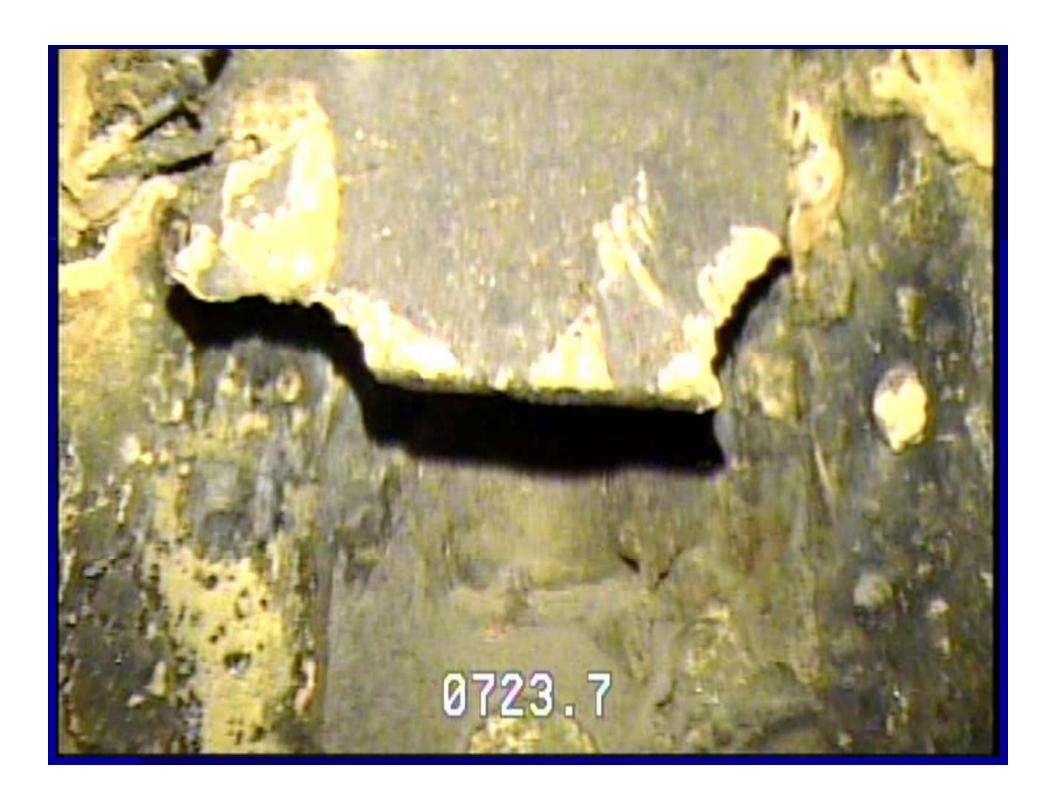


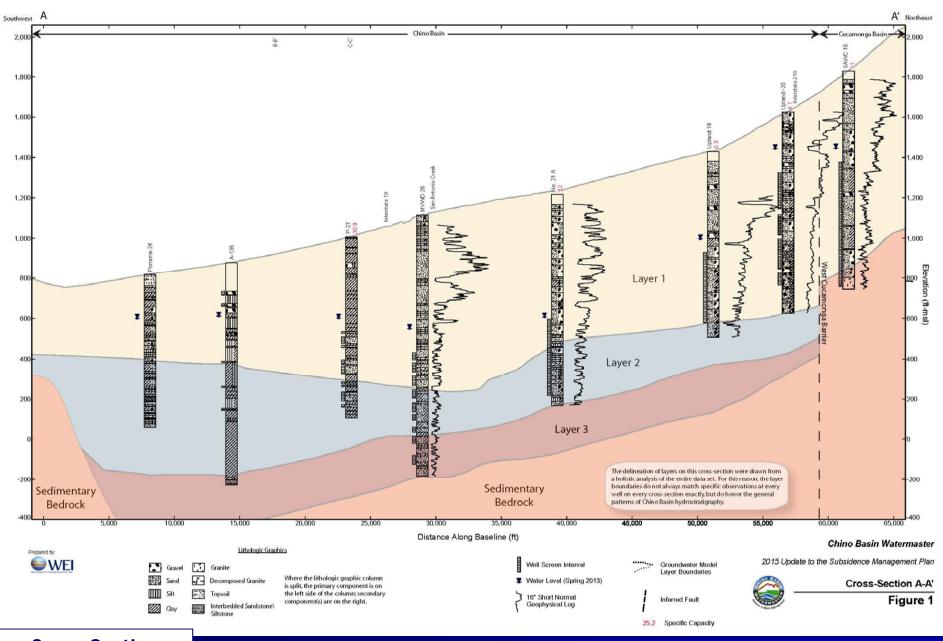




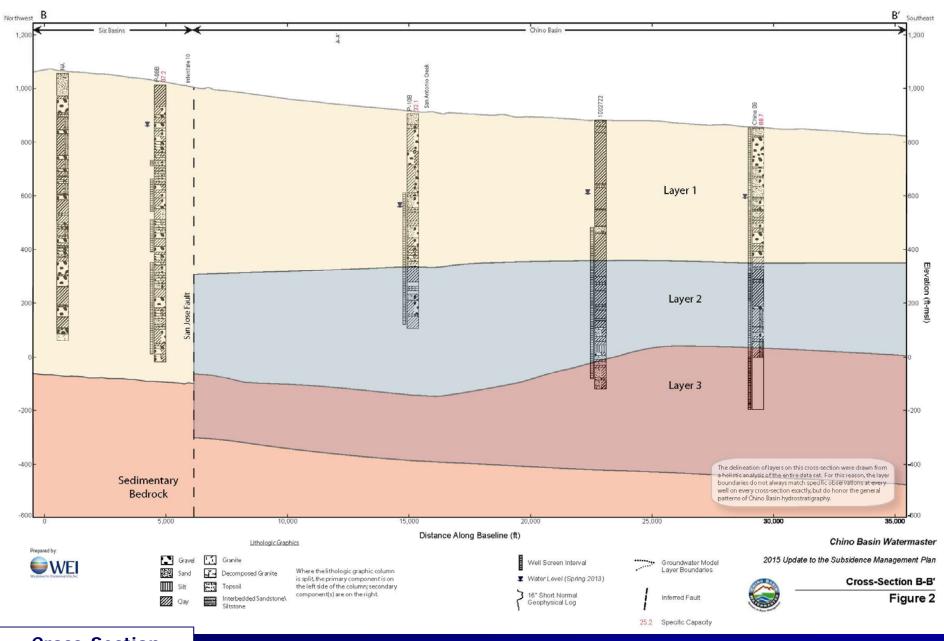




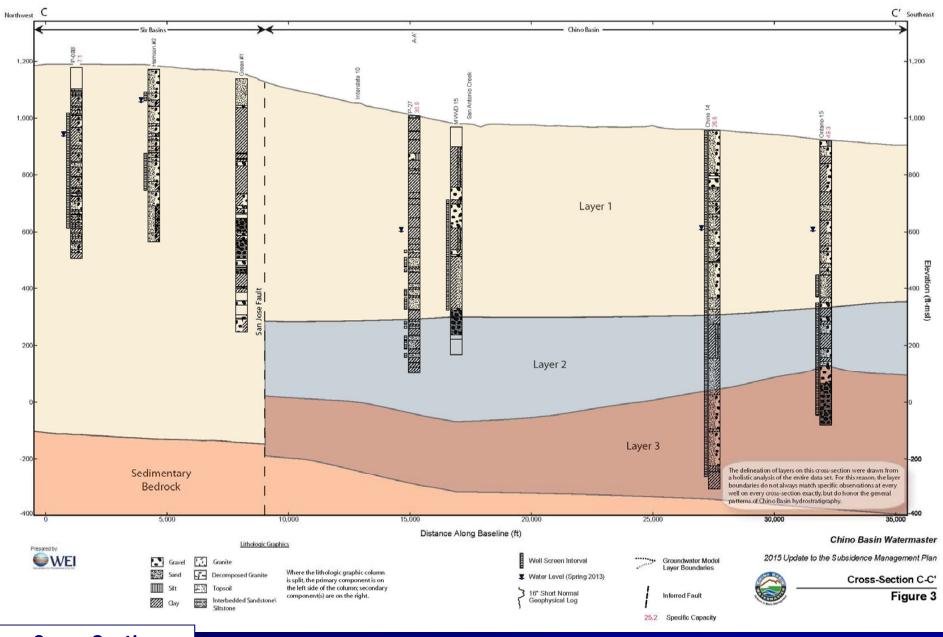




Cross-Section A-A'



Cross-Section B-B'



Cross-Section C-C'

Schedule to Develop the Pomona Subsidence Investigation

- Watermaster develops a "straw-man" investigation (October 2014)
- LSC meetings to refine the investigation (October -December 2014)
- Watermaster prepares a written description of investigation including scope, schedule and budget (January 2015)
- LSC reviews/approves the investigation for incorporation into the draft Subsidence Management Plan (February 2015)

- 1. Background and Objectives
 - Historical Land Subsidence and Ground Fissuring
 - Chino Basin Judgment, OBMP, and Peace Agreement
 - Interim Monitoring Program and the Initial MZ-1 Plan
 - Land-Subsidence Monitoring Program (2008-2014)
 - 2015 Update to the Chino Basin Subsidence Management Plan

2. Subsidence-Management Program

Areas of Subsidence Concern

Managed Area

Management Criteria

Managed Area

Managed Wells

Guidance Level

On-going Monitoring and Testing Program Future Efforts

Pomona Area

On-going Monitoring and Testing Program

Future Efforts

Southeast Area
 On-going Monitoring and Testing Program
 Future Efforts

Ontario Area
 On-going Monitoring and Testing Program
 Future Efforts

Central MZ-1 Area
 On-going Monitoring and Testing Program
 Future Efforts

Data Exchange between Watermaster Parties

3. Annual Reporting

Annual Report of the Land Subsidence Committee

Scoping and Budgeting for Future Fiscal Years

- 4. Process to Update the Subsidence Management Plan
- 5. Glossary of Terms
- 6. References

Schedule to Update the Subsidence Management Plan

- LSC to review a proposed outline (today)
- Watermaster staff and LSC develop a recommended Pomona Subsidence Investigation (December 2014)
- Watermaster staff prepares a draft Subsidence
 Management Plan for LSC review. The plan includes the Pomona Subsidence Investigation (January 2015)
- Draft plan approved by LSC (February/March 2015)
- Final plan is reviewed/approved by Watermaster Pools/AC/Board (March/April 2015)

End