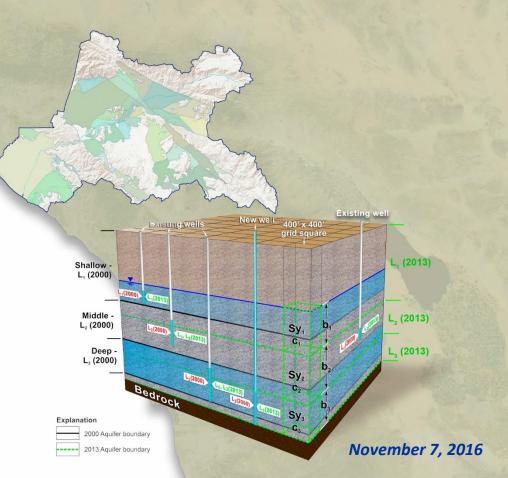
TDS/Nitrogen Management
Plan for the Santa Ana River Basin
Groundwater Monitoring Requirements

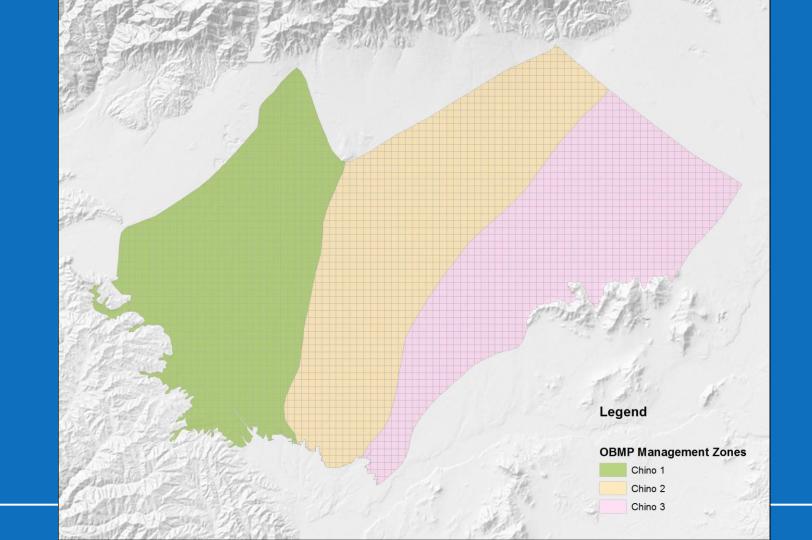
Consulting Services for the Recomputation of Ambient Water Quality in the Santa Ana River Watershed for the Period 1996-2015





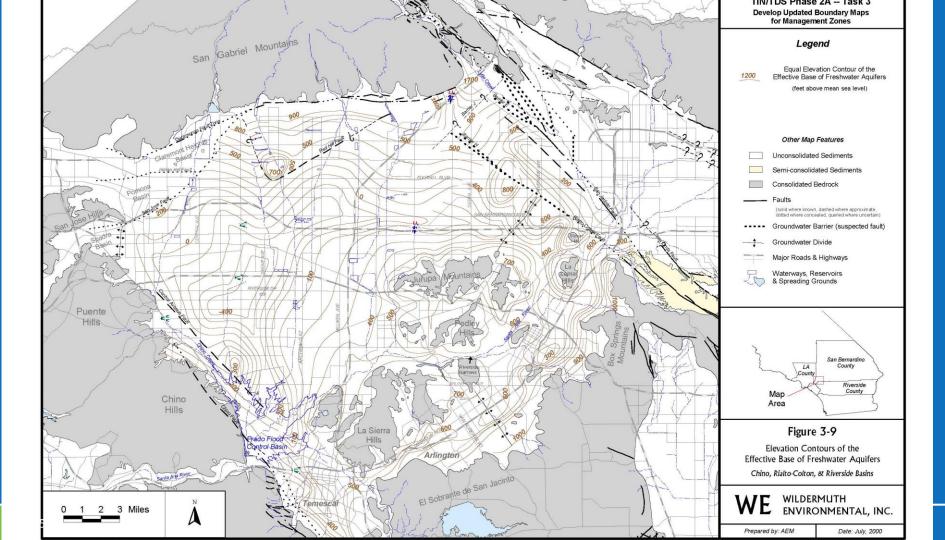
Task 1b – Update the Physical Model

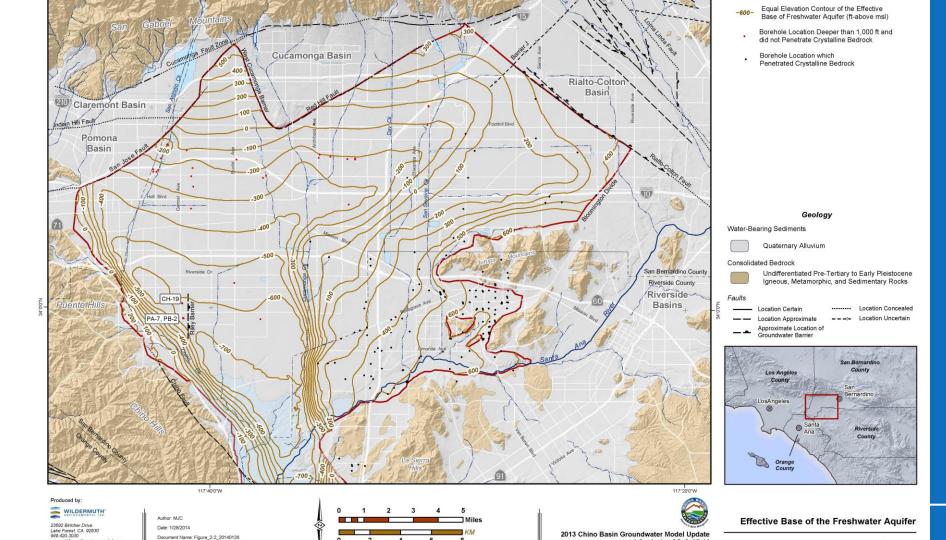
- RFP suggested that the Chino Basin GMZ's be used as a Pilot Study to evaluate the effect of a physical model update on the AWQ results
- Updated the 2012 AWQ Calculation for Chino North using data supplied by CBWM from the recently updated groundwater model (2013 Chino Basin Groundwater Model Update and Recalculation of Safe Yield Pursuant to the Peace Agreement, WEI 2015)
 - Volume-weighted estimate of TDS and Nitrate
 - Updated Layer 1, Layer 2, and L3 (Bottom of Aquifer)
 - Updated Specific Yield values for L1, L2, and L3

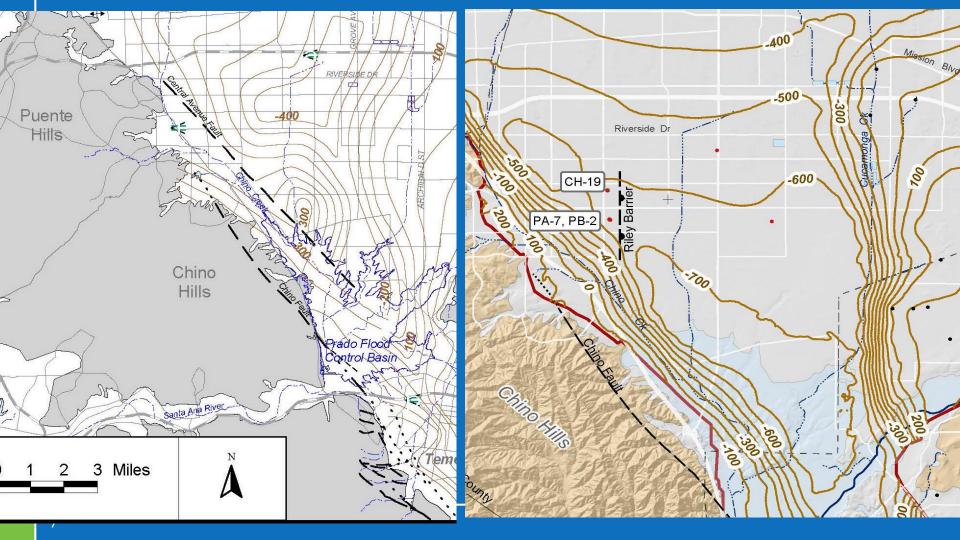


Recalculated Chino North AWQ Determinations for 2012

AWQ 2012 Reported			AWQ 2012 Check	
MZ	NO3-N	TDS	NO3-N	TDS
Chino 1	10.0	350	10.01	345.71
Chino 2	10.7	380	10.73	379.25
Chino 3	8.5	320	8.58	321.23
Chino North	10.0	350	10.01	354.60







Volume of Water in Storage

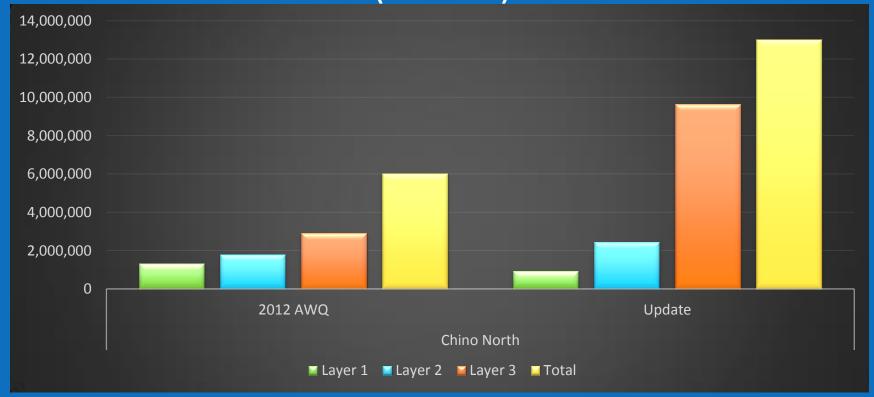


(acre-ft)





Volume of Water in Storage (acre-ft)



Ambient Water Quality Change

MZ	AWQ 2012		AWQ 2012_2013 Model Update	
AWQ	NO3-N	TDS	NO3-N	TDS
Chino 1	10.0	350	7.10	280
Chino 2	10.7	380	3.4	250
Chino 3	8.5	320	9.3	340
Chino North	10.0	350	5.4	270

