

A photograph of a narrow stream flowing through a dense, lush green forest. The water is clear and reflects the surrounding foliage. The banks are lined with various types of trees and bushes, creating a shaded and natural environment.

Maximum Benefits Monitoring Program

Beaumont Management Zone

Presentation Outline

- Maximum Benefits and Compliance Monitoring
- WWTP Reclaimed Water Effluent
- Surface Water
- Groundwater
- Status of Monitoring



Maximum Benefits

- 2004 – Update to 1995 Basin Plan
 - Salt Management Plan for TDS and nitrogen ($\text{NO}_3\text{-N}$)
 - GMZs – Beaumont, San Timoteo and Yucaipa
- Maximum Benefit objectives for TDS and $\text{NO}_3\text{-N}$
 - Encourage recycled water use
 - Increase assimilative capacity
- Every 3 years calculate ambient water quality
 - Reassess assimilative capacity and compliance with WQOs

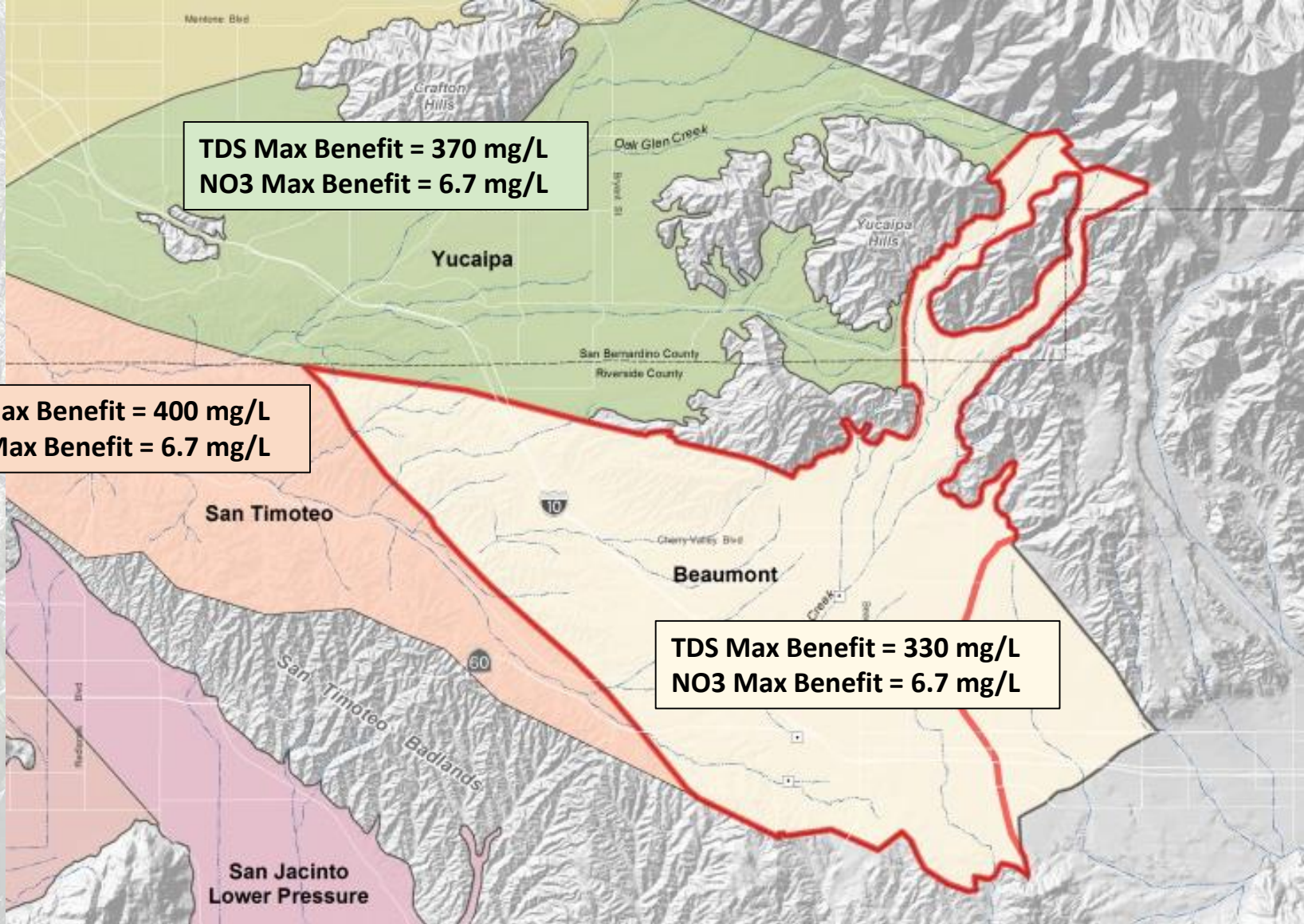


Maximum Benefits

- 2014 – Basin Plan Amendment
 - Expanded BMZ boundary farther east
 - If Max Benefits and commitments not met, then RWQCB will require compliance with anti-degradation limits

	TDS (mg/L)	NO3-N (mg/L)
	10-year running averages	
Max Benefit	330	5.0 (6.7 - 25% loss)
Anti-degradation	230	1.5





Maximum Benefits

- Beaumont Commitments
 - Surface Water and Groundwater Monitoring
 - Complete recycled water supply systems for irrigation use
 - Construct wastewater desalter and brine disposal facilities
 - Recycled Water Recharge
- YVWD is Data Manger
 - Annual Reports to RWQCB mid-April

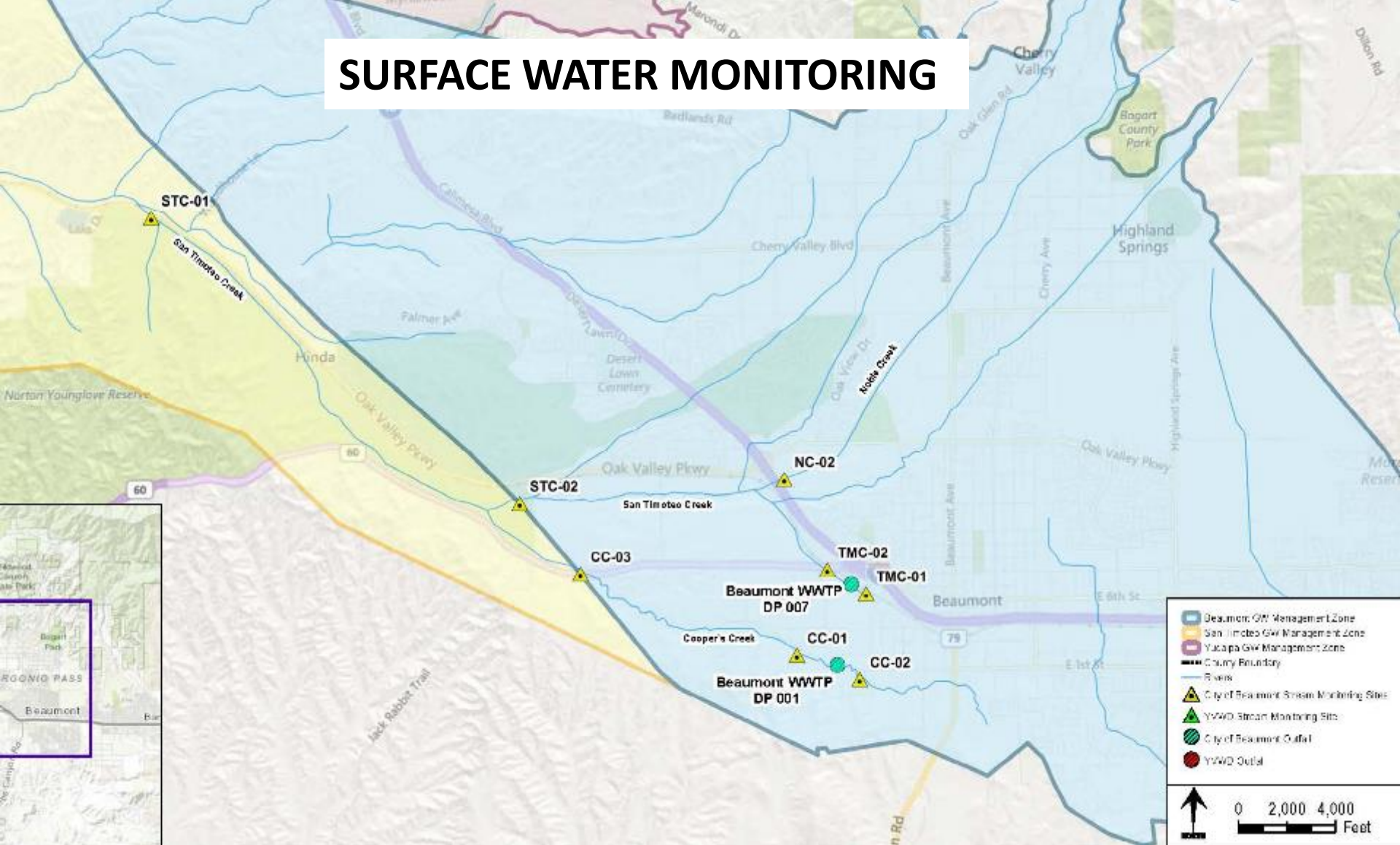


Monitoring Program

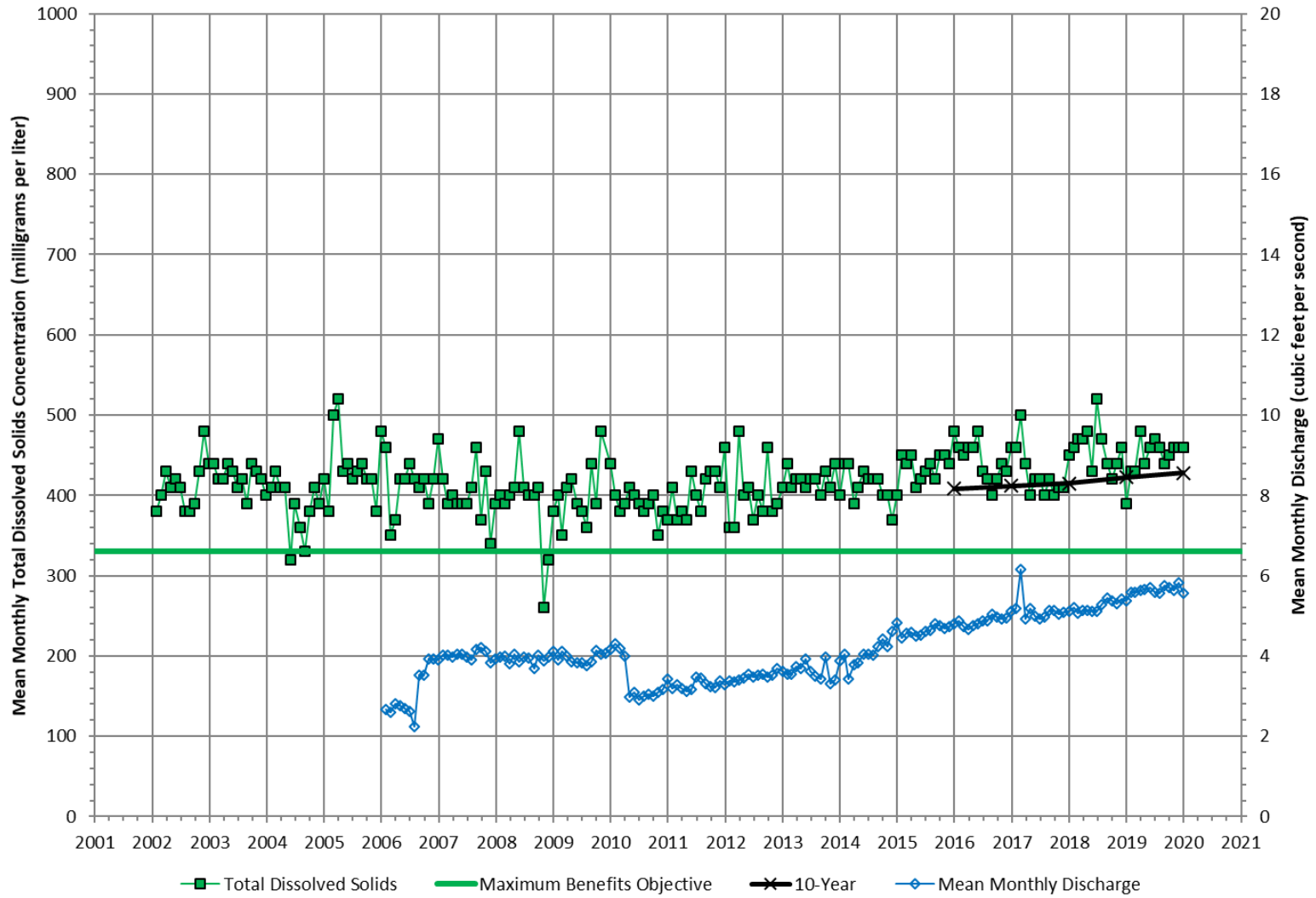
- 2015 MBMP Work Plan
 - Collect data for triennial calc of ambient water quality
 - Need groundwater level and quality data
- Surface Water
 - Biweekly events + major storm events
- Groundwater
 - Static water level measurements (Spring and Fall)
 - Water quality sampling once every 3 years



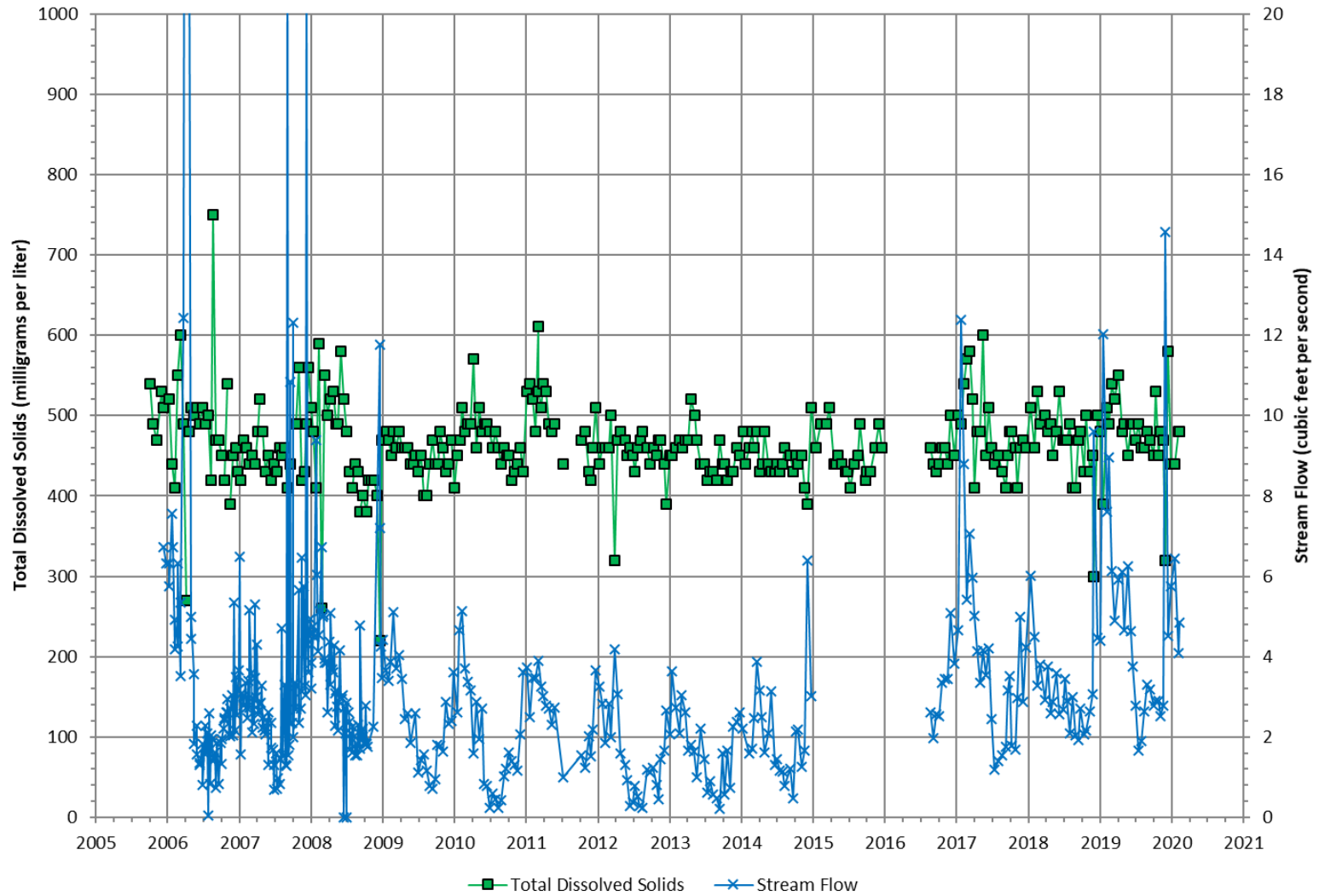
SURFACE WATER MONITORING



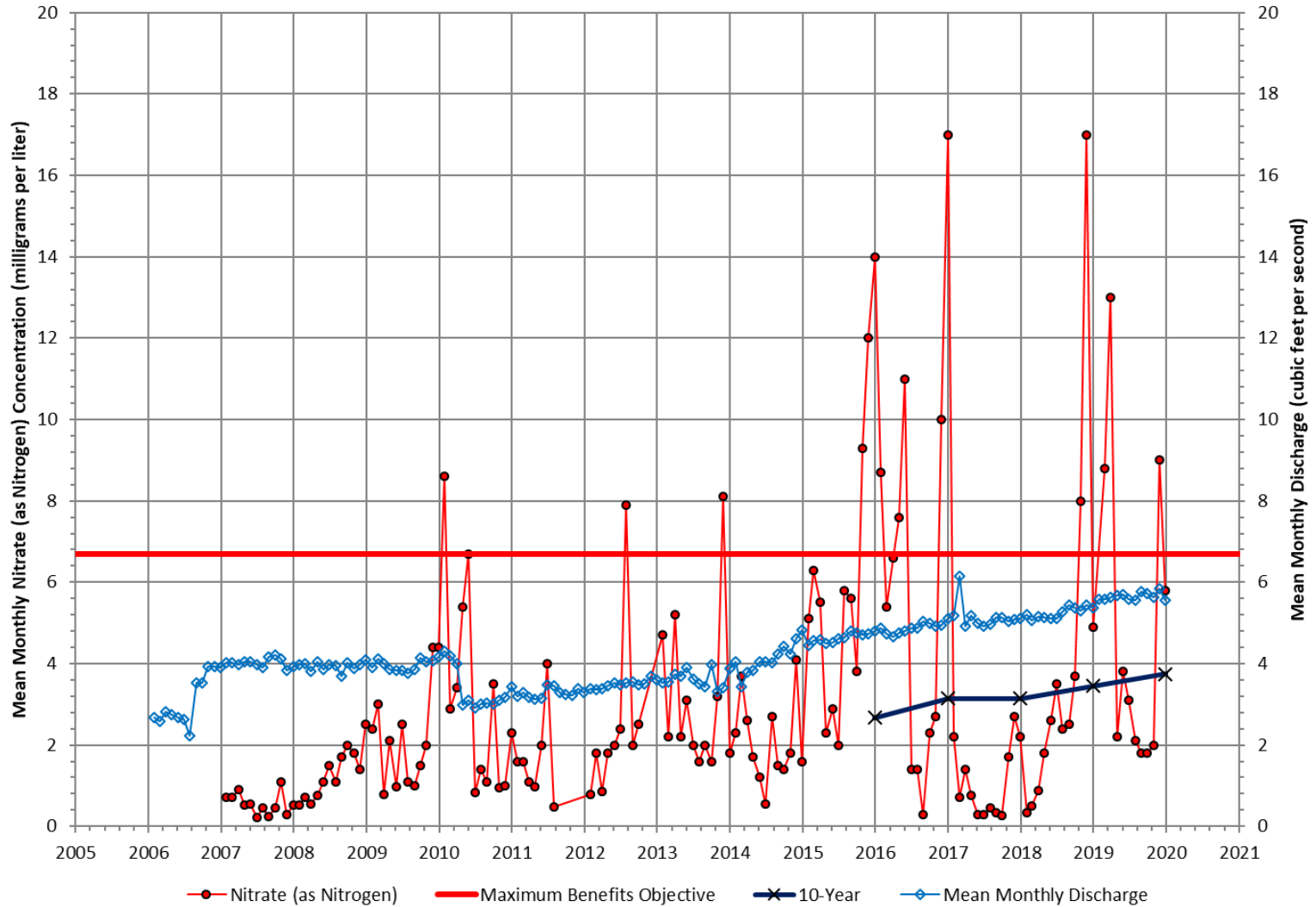
TDS and Monthly Discharges at DP-001 Outfall



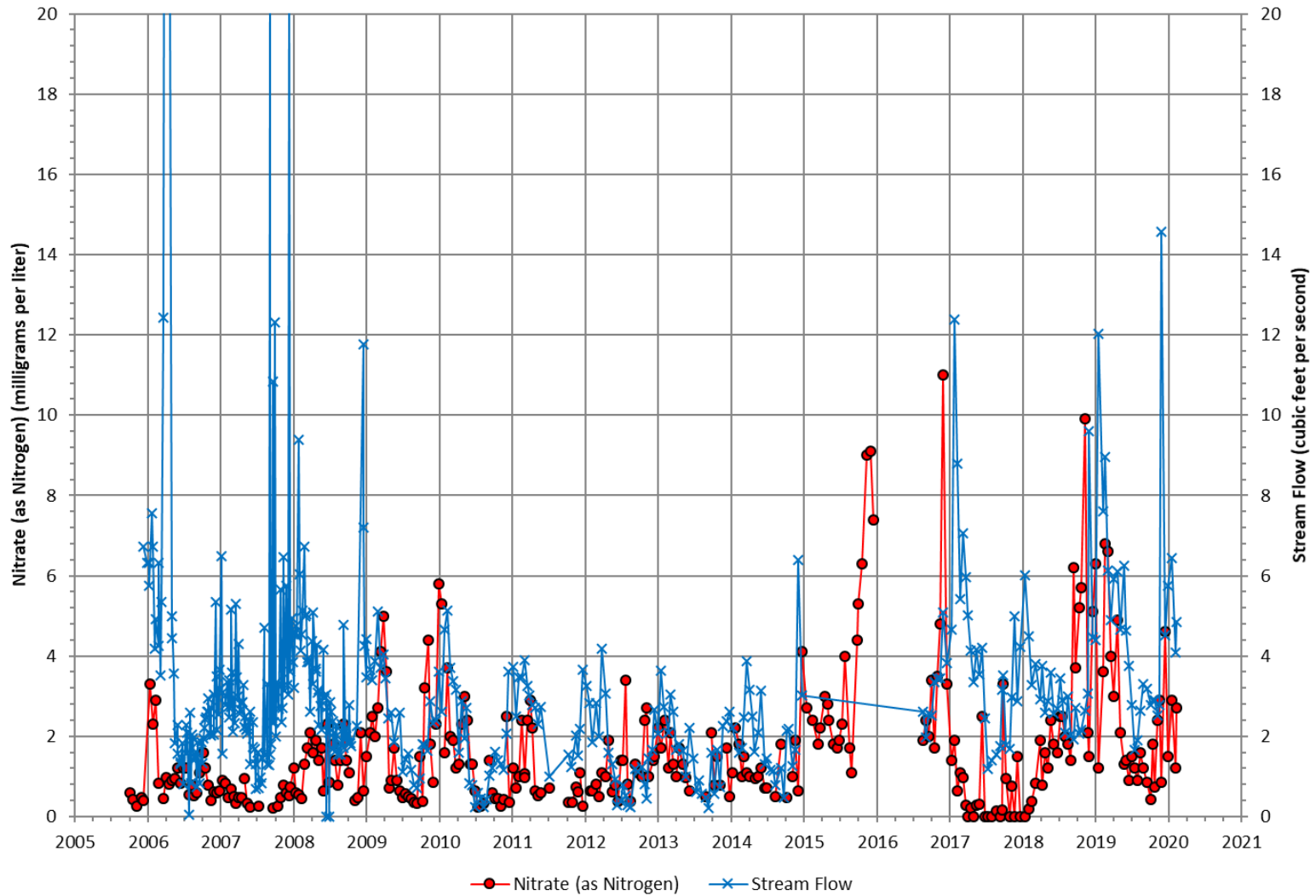
Total Dissolved Solids and Stream Flow at STC-01



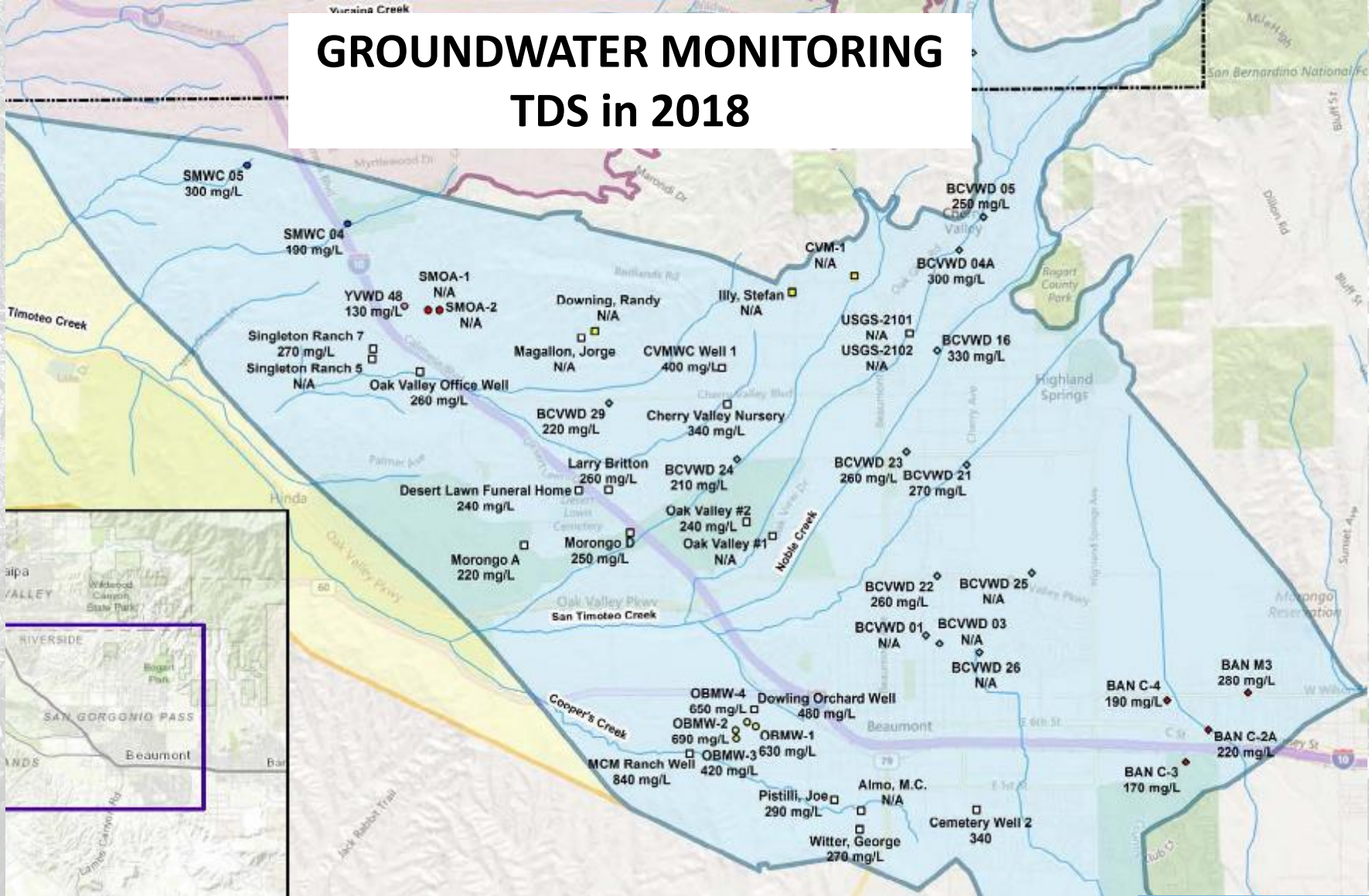
Nitrate (as Nitrogen) and Mean Monthly Discharge at DP-001 Outfall



Nitrate (as Nitrogen) and Stream Flow at STC-01

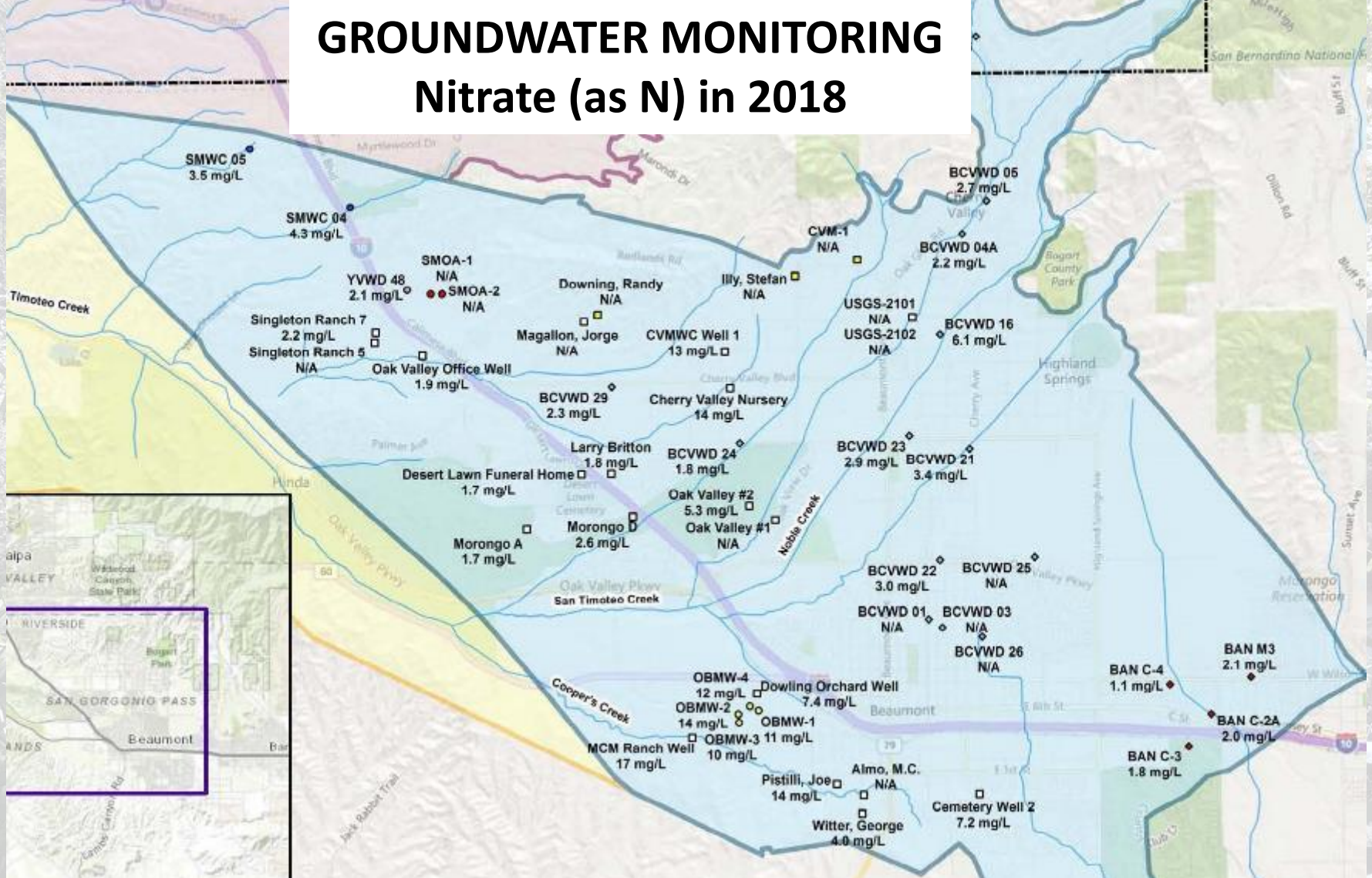


GROUNDWATER MONITORING TDS in 2018

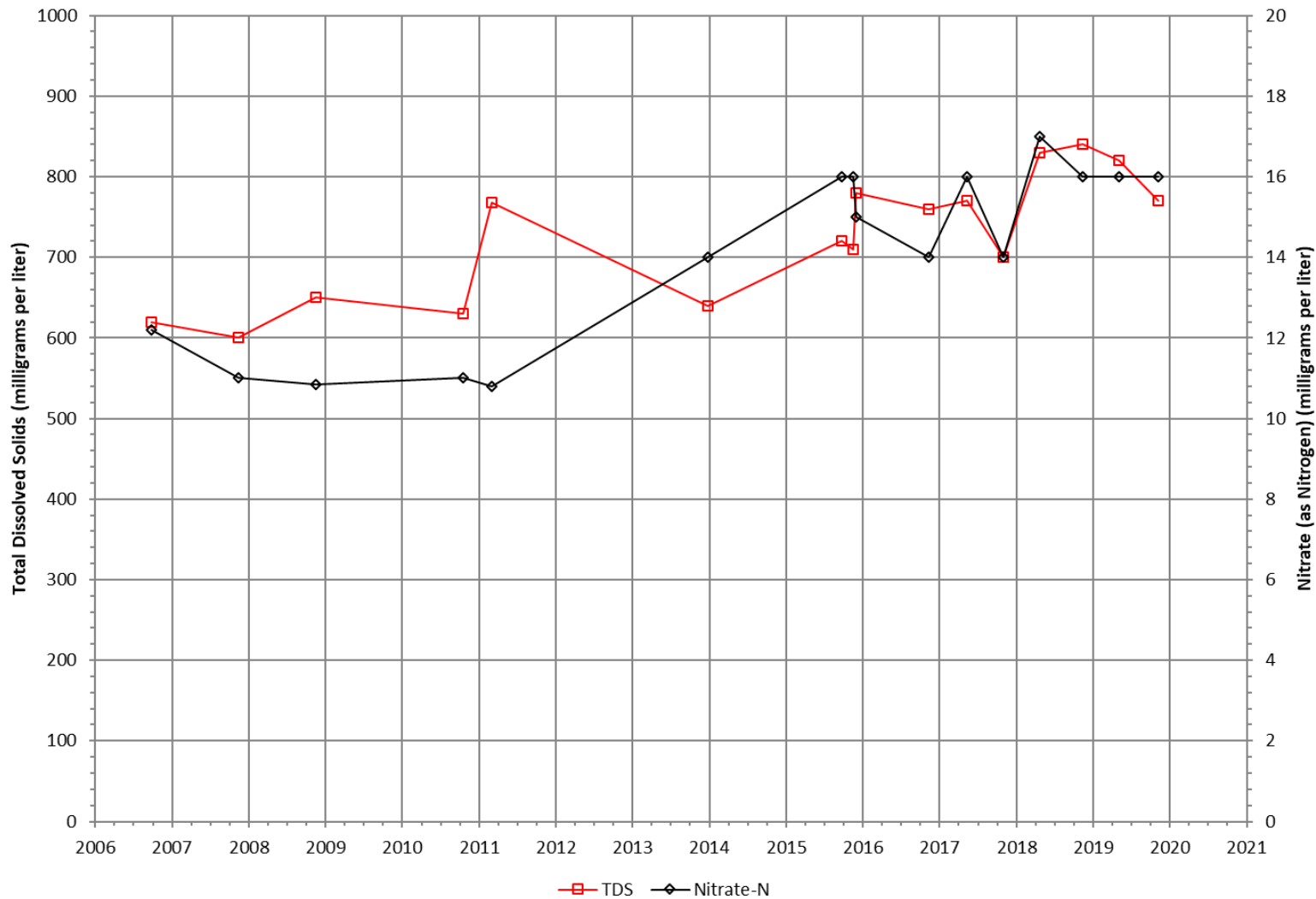


GROUNDWATER MONITORING

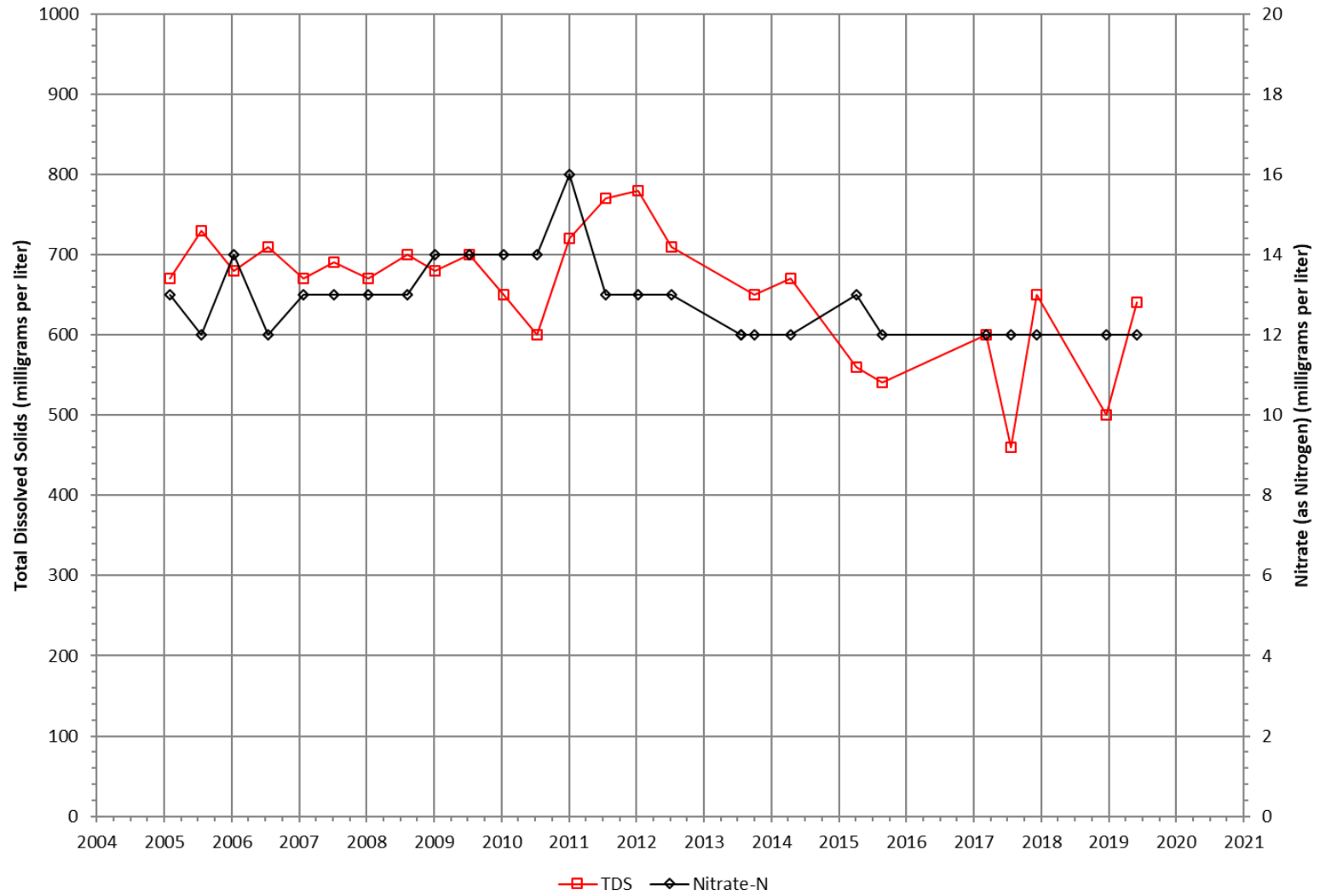
Nitrate (as N) in 2018



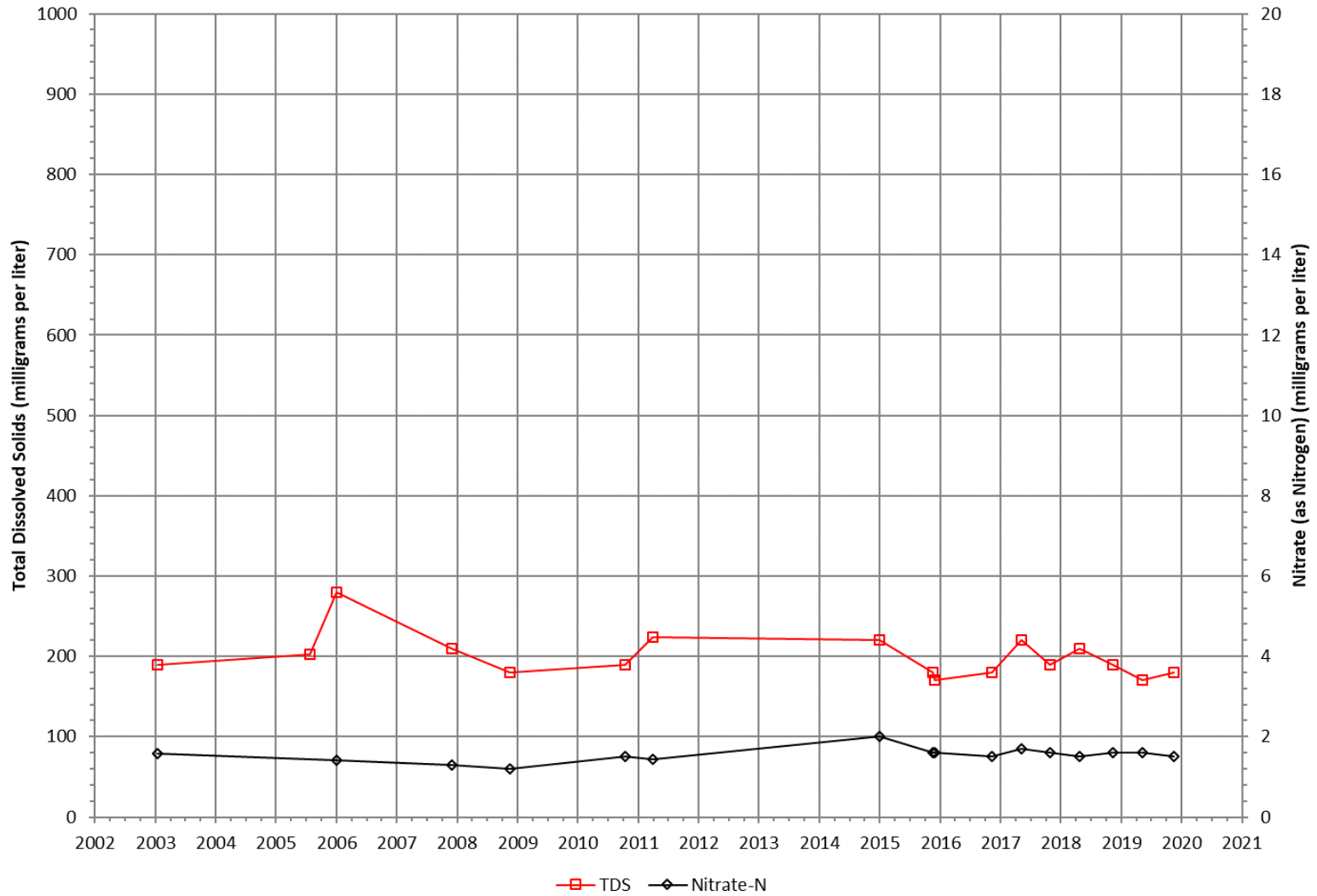
Total Dissolved Solids and Nitrate (as N) at MCM Poultry Ranch Well



Total Dissolved Solids and Nitrate (as N) at Well RCWMD OBMW-4



Total Dissolved Solids and Nitrate (as Nitrogen) at Morongo Well A



Status of Monitoring

- 103 Wells for Groundwater Levels
 - 55% met monitoring requirement in 2018
 - Only 1 measurement
 - No static measurements
 - Abandoned wells
 - Denied access
- 56 Wells for Groundwater Quality
 - 73% met monitoring requirement in 2018
- Seek replacement wells to maintain spatial coverage for BMZ ambient quality calculation





**THANK YOU FOR
YOUR TIME**