

ITEM 11 MASTER RECYCLING PERMIT REISSUANCE: SOUTHERN REGIONAL TERTIARY TREATMENT PLANT

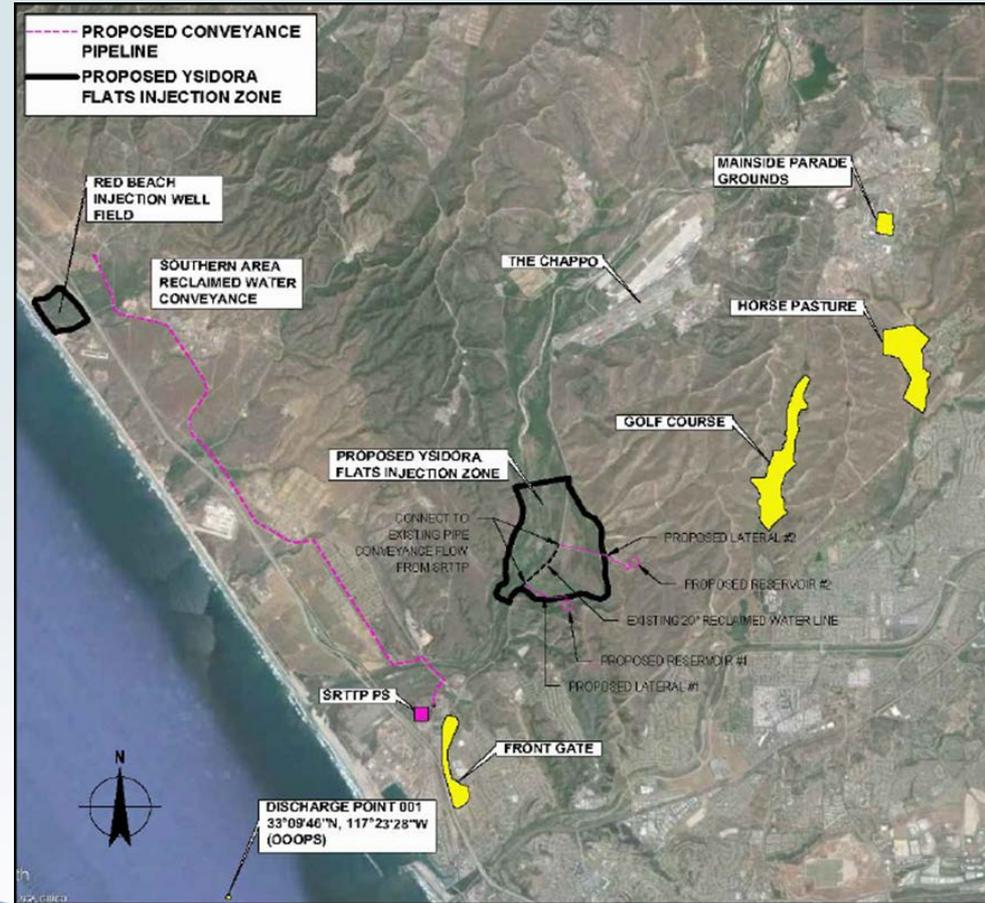
Presented by
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Southern Regional Tertiary Treatment Plant

- Four Recycled Water Use Areas
- Red Beach Disposal Location
- Lower Ysidora Seawater Intrusion Barrier

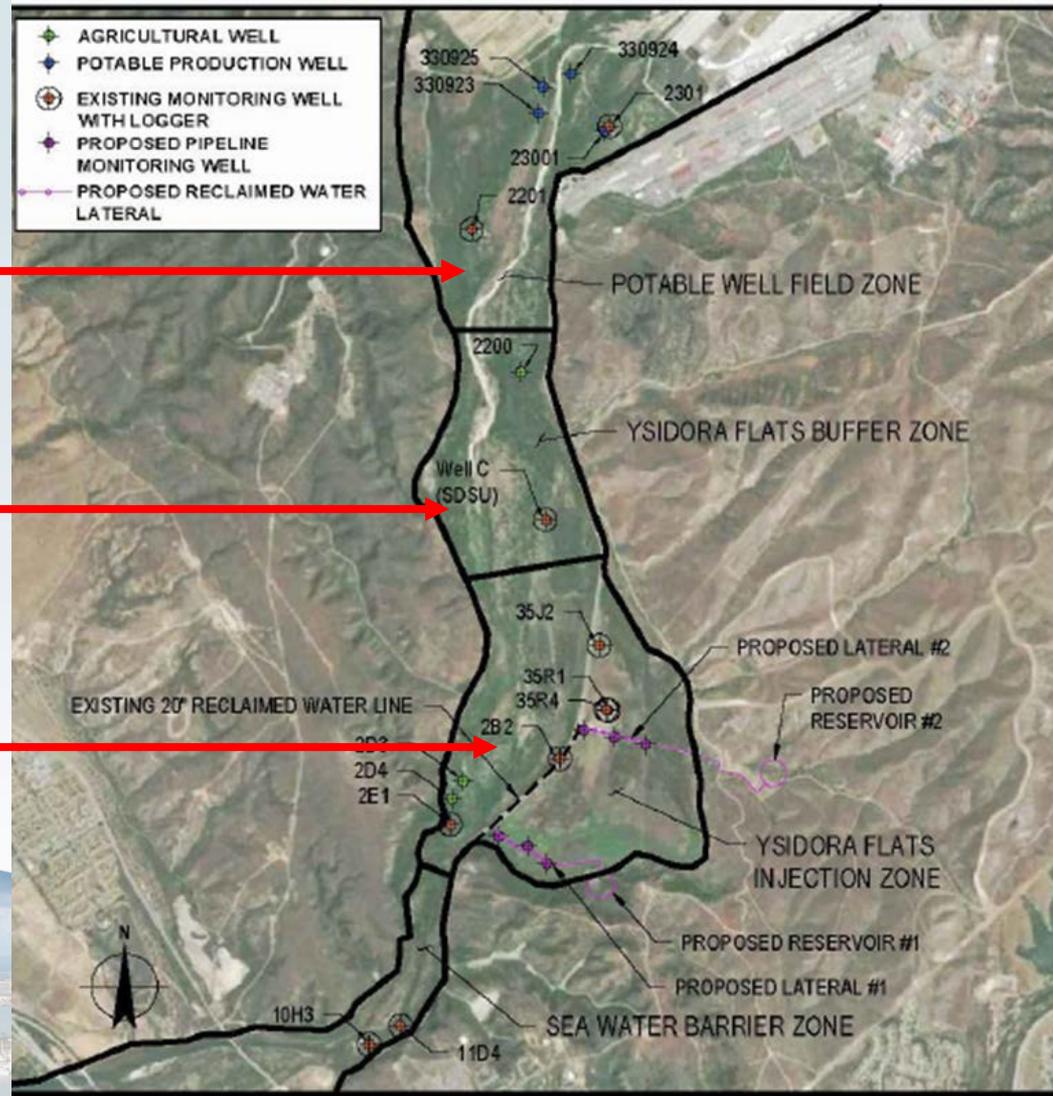


Lower Ysidora Proposed Monitoring Zones

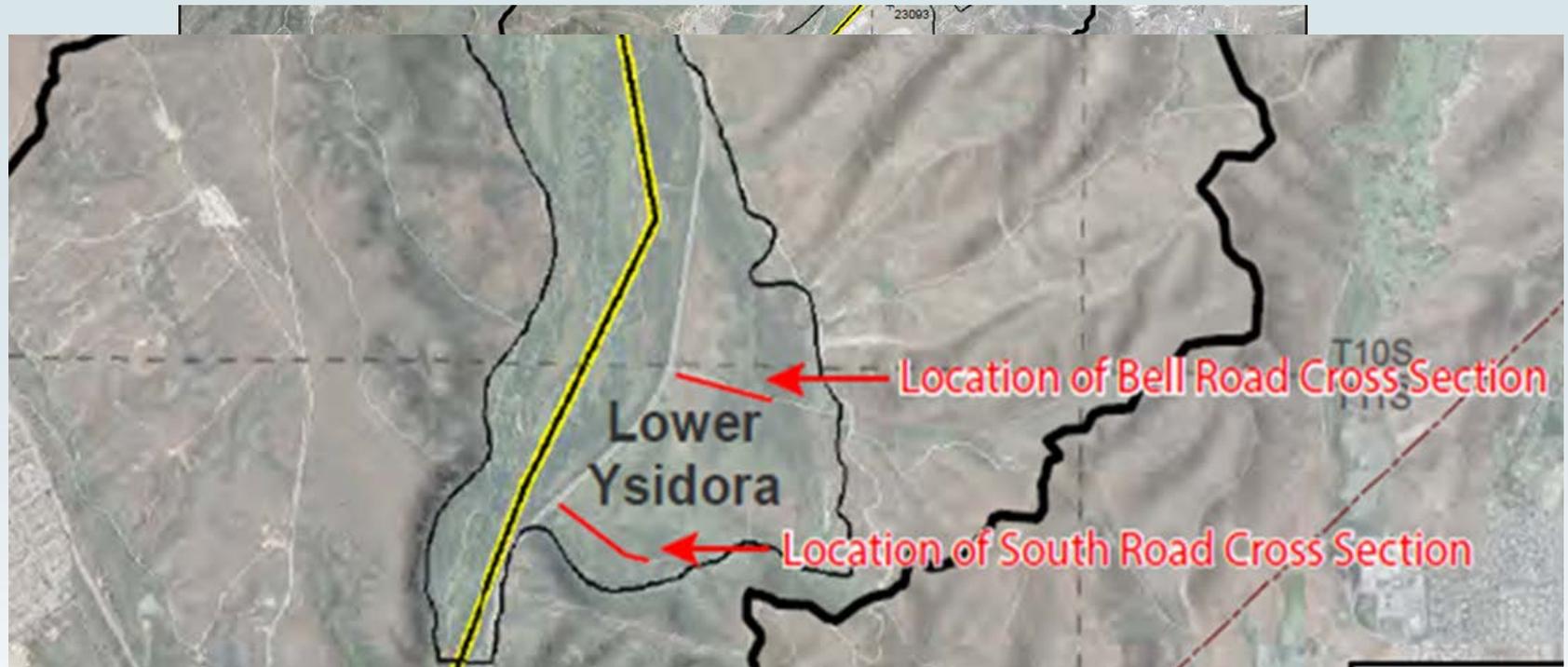
- Potable Zone

- Buffer Zone

- Injection Zone

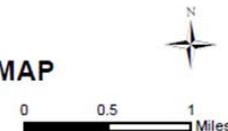


Lower Ysidora Seawater Intrusion Barrier



LOWER SANTA MARGARITA RIVER BASIN
CROSS SECTION AND PRODUCTION WELL LOCATION MAP
UPDATE JULY 2016

Background Image Source: NAIP, 2012



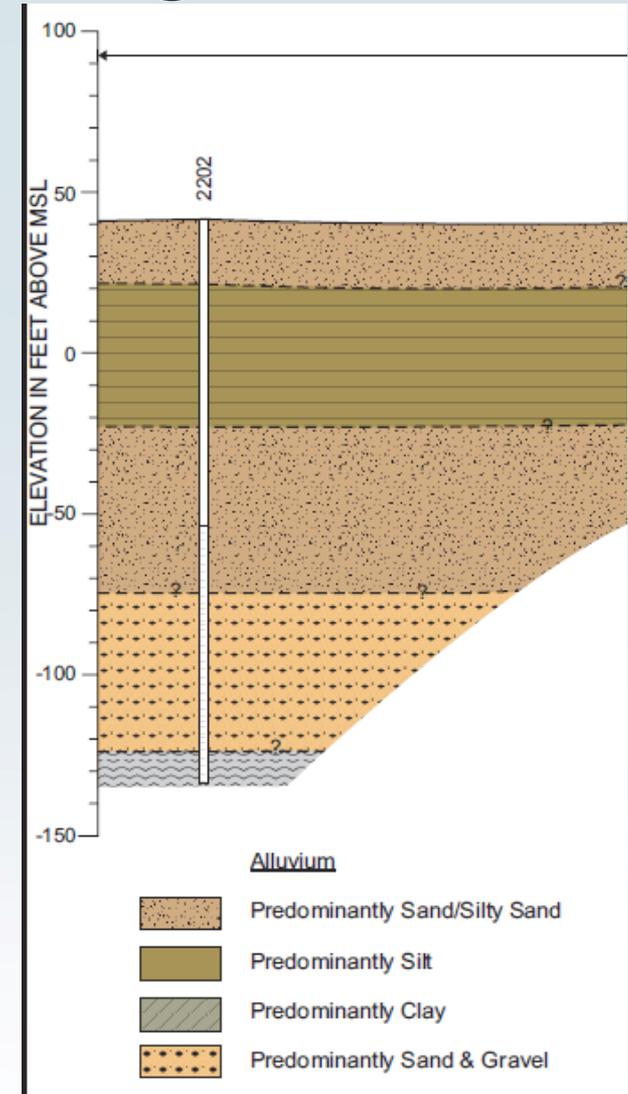
What about vertical migration?

Primary concern

- Vertical migration to Santa Margarita River and Estuary

Deep aquifer separation

- Geologic borings
- Hydraulic pumping activities
- Water chemistry



What about the Santa Margarita TMDL Project?

- TMDL Water Board staff asked to assess possible nutrient load added to Santa Margarita River and Estuary

Results

- More robust monitoring & reporting program
- Seawater Intrusion Barrier Monitoring
- Water quality chemistry comparison between the shallow aquifer, injection zone, and SRTTP effluent



Revisions to Tentative Order No. R9-2018-0023

- Bicarbonate requested to be added to effluent and groundwater monitoring (Revisions on pages D-5 and D-6)
- Bicarbonate analysis required to perform the adjusted sodium adsorption ratio (SAR) analysis
- Comments were incorporated with the revised Tentative Order



Summary

- Additions increased robustness of the MRP
- MCBCP's beneficial uses are protected
- Modeling demonstrates no migration toward potable well field or vertically to Santa Margarita River
- If the injection does the unexpected the Tentative Order requires the injection to cease or decrease
- In conclusion, recommend adoption of the revised Tentative Order No. R9-2018-0023



Questions?

