

Otay Water District Board of Directors Meeting

December 5, 2007



Water Supply Assessment Report for Otay Crossings Commerce Park (Crossings) Project

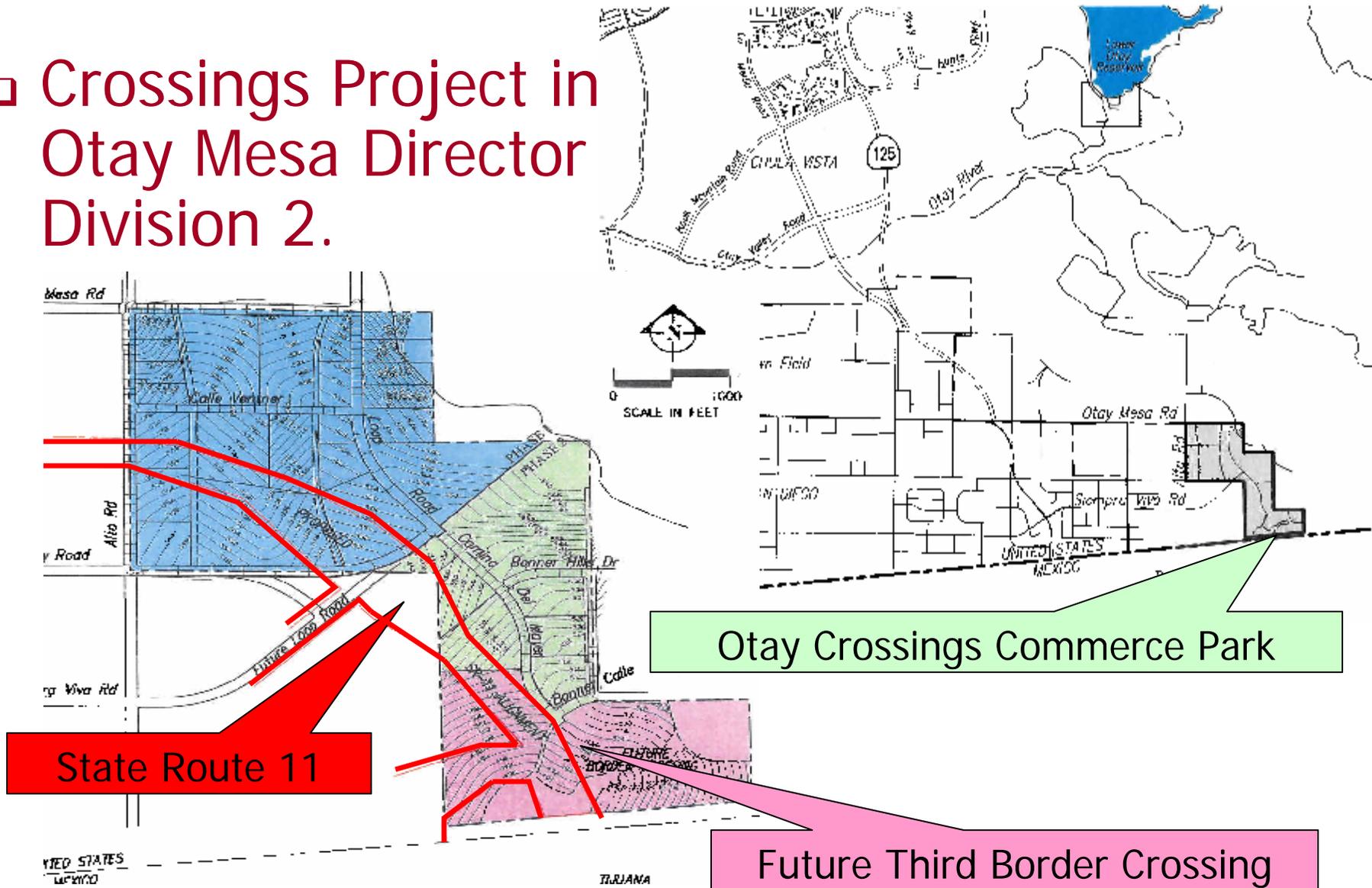
SB 610 Compliance

Background

- ❑ Senate Bills 610 and 221 became effective on January 1, 2002, with the primary intent to improve the link between water supply availability and land use decisions.
- ❑ SB 610 Water Supply Assessment (WSA):
 - ❑ Requires water purveyor to prepare a Water Supply Assessment report for inclusion in land use agency CEQA documentation.
- ❑ SB 221 Water Supply Verification (WSV):
 - ❑ Does not apply to Crossings Project for it is an industrial subdivision. Water purveyor to prepare written Verification that sufficient water supplies are planned to be available prior to approval of Tentative Map.
- ❑ Crossings Project Water Supply Assessment Report
 - ❑ Board approval required for submittal to the County of San Diego.

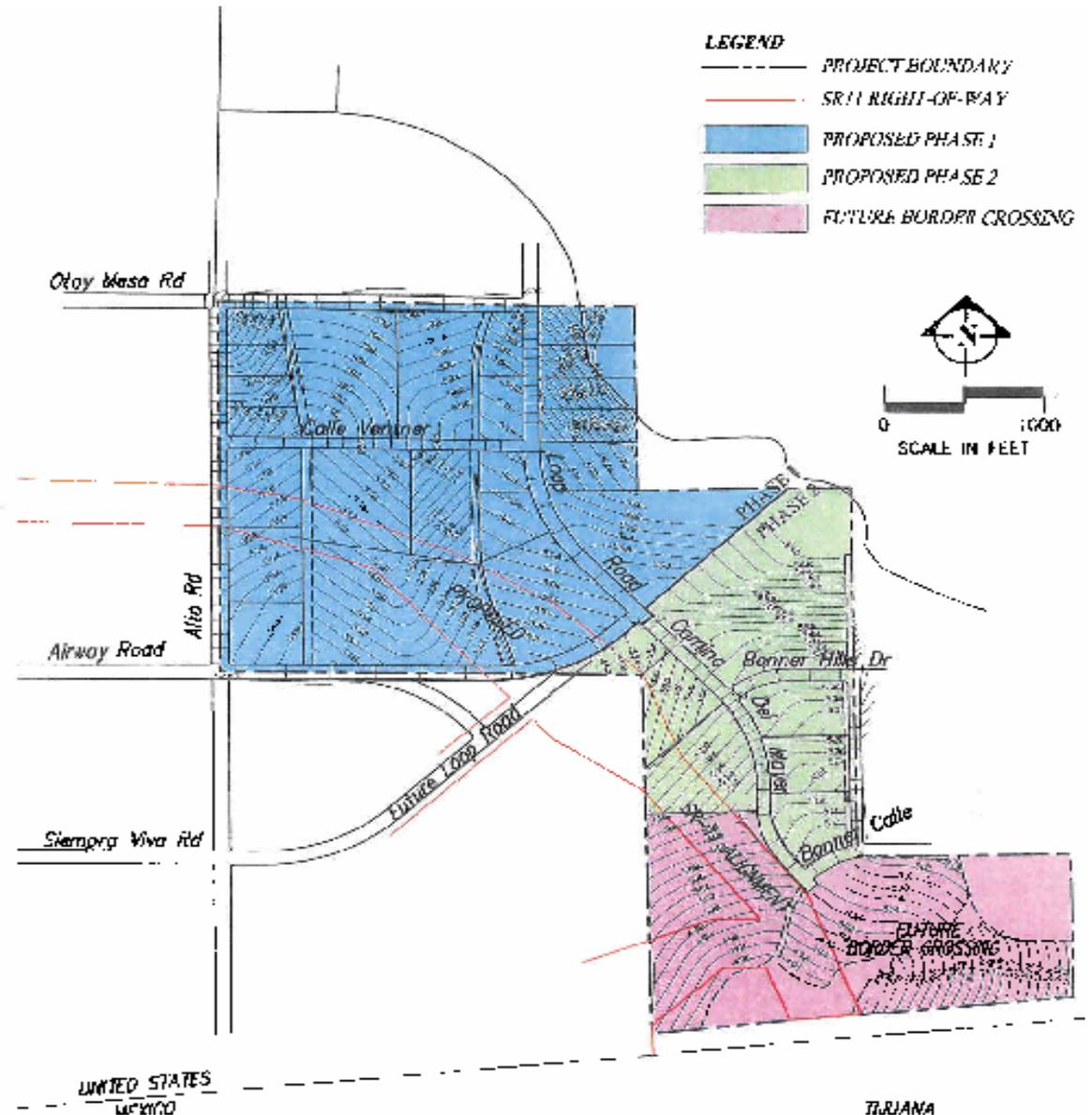
Crossings Project Location

- Crossings Project in Otay Mesa Director Division 2.



Crossings Project Description

- ❑ Included within the County of San Diego East Otay Mesa Specific Plan Area adopted July 1994.
- ❑ Total of approximately 331.5 acres.
- ❑ Planned as a mixed industrial and business park project.
- ❑ 31 industrial lots, 51 acres for SR 11 right of way, 74 acre third border crossing, and 21 acres of open space.



Projected Balance of Water Supplies and Demands
Normal Year Conditions (acre feet)

Description	FY 2010	FY 2015	FY 2020	FY 2025	FY 2030
Water Authority Supply	45,772	52,349	59,799	66,560	75,108
Recycled Water Supply	4,040	4,684	5,430	6,294	7,297
Groundwater Supply	0	0	0	0	0
Total Required Supply	49,812	57,033	65,229	72,854	82,405
Total Projected Demand	49,812	57,033	65,229	72,854	82,405
Supply Deficit	0	0	0	0	0

Source: Table 8 Otay Crossings Project WSA Report (From Otay WD 2005 UWMP Update).

Projected Balance of Water Supplies and Demands Single Dry Year Conditions (acre feet)

Description	FY 2010	FY 2015	FY 2020	FY 2025	FY 2030
Water Authority Supply	49,259	56,341	64,365	71,660	80,876
Recycled Water Supply	4,040	4,684	5,430	6,294	7,297
Groundwater Supply	0	0	0	0	0
Total Required Supply	53,299	61,025	69,795	77,954	88,173
Total Projected Demand	53,299	61,025	69,795	77,954	88,173
Supply Deficit	0	0	0	0	0

Dry year demands assumed to generate a 7% increase in demand over normal conditions for each year in addition to new demand growth.

Source: Table 9 Otay Crossings Project WSA Report (From Otay WD 2005 UWMP Update)

Projected Balance of Water Supplies and Demands Multiple Dry Year Conditions (acre feet)

Description	FY 2011	FY 2012	FY 2013	FY 2014	FY 2015
Water Authority Supply	50,675	52,091	53,509	54,925	56,341
Recycled Water Supply	4,169	4,298	4,426	4,555	4,684
Groundwater Supply	0	0	0	0	0
Total Required Supply	54,844	56,389	57,935	59,480	61,025
Total Projected Demand	54,844	56,389	57,935	59,480	61,025
Supply Deficit	0	0	0	0	0

Dry year demands assumed to generate a 7% increase in demand over normal conditions for each year in addition to new demand growth.

Source: Table 10 Otay Crossings Project WSA Report (From Otay WD 2005 UWMP Update).

Crossings Water Supply Assessment

- The regional water supply agencies acknowledge the challenges of supply acquisition and also the need for adaptable implementation strategy and fully intend to develop sufficient reliable supplies to meet demands.
- Water suppliers recognize additional water supplies are necessary and supply portfolios need to be reassessed and redistributed with the intent to serve existing and future needs.
- Metropolitan plans to update its Integrated Water Resources Plan (IRP) to account for the Delta and other potential supply impact issues.

Crossings Water Supply Assessment (continued)

- The state of current water supply situation is documented in the Crossings WSA with the intent to provide supply through reassessment and reallocation via the Water Authority and Metropolitan IRP and UWMP update processes.
- It is believed that the Board has met the intent of SB 610 statute in that:
 - 1) Land use agencies and water suppliers have demonstrated strong linkage.
 - 2) The Crossings Water Supply Assessment clearly documents the current water supply situation.

Crossings Water Supply Assessment

- Based on existing documentation the WSA Report demonstrates and documents that sufficient water supplies are planned and intended to be acquired.
- WSA Report documents the actions necessary to develop these water supplies.
- Crossings project proponents have committed to implement water conservation measures such as ultra low flow toilets, waterless urinals, recycled water irrigation, and low water use landscape plantings.
- Water supply for the Crossings Project and for existing and future developments within the Otay WD for a 20-year planning horizon, under normal and in single and multiple dry years are planned for and are intended to be made available.

Water Authority Capital Improvement Program

- Planned facilities are adequate to acquire and deliver water supplies.
- ✓ Emergency Storage Project
- ✓ 100 MGD Twin Oaks WTP
- ✓ San Vicente Reservoir Expansion Carryover Storage Project
- ✓ Pipeline No. 6
- ✓ All American Canal Lining Project
- ✓ Coachella Canal Lining Project
- ✓ IID QSA Water Transfer (Fallow Farmland)

Projected Water Supplies – Water Authority Service Area Normal Year (acre feet)

Water Supply Sources	2010	2015	2020	2025	2030
Water Authority Supplies					
Metropolitan Supplies	445,858	399,855	331,374	342,870	372,922
Water Authority/IID Transfer	70,000	100,000	190,000	200,000	200,000
AAC and CC Lining Projects	77,700	77,700	77,700	77,700	77,700
Member Agency Supplies					
Local Surface Water	59,649	59,649	59,649	59,649	59,649
Recycled Water	33,668	40,662	45,548	46,492	47,584
Seawater Desalination	0	34,689	36,064	37,754	40,000
Groundwater	17,175	18,945	19,775	19,775	19,775
Groundwater Recovery	11,400	11,400	11,400	11,400	11,400
Total Projected Supplies	715,450	742,900	771,510	795,640	829,030

Source: The Water Authority 2005 Updated Urban Water Management Plan. The total projected supply data is balanced with the projected water demand.

Metropolitan Preferential Rights

- Water Authority's FY 2006 preferential right is 16.46% of Metropolitan's supply.
- Water Authority accounted for approximately 25% of Metropolitan's water sales.
- Metropolitan could allocate water without regard to historic water purchases or dependence on Metropolitan.
- Water Authority and its member agencies are taking measures to reduce dependence on Metropolitan.
- Independent development of a water supply portfolio that would not be jeopardized by a preferential rights allocation.

Metropolitan Preferential Rights

- Metropolitan has stated, consistent with its Administrative Code that it is prepared to provide the Water Authority's service area with adequate supplies of water to meet expanding and increasing needs in the years ahead.
- Metropolitan stated it will be prepared to deliver additional water resources required to meet increasing supply needs.
- Metropolitan 2005 RUWMP states that through effective management of its water supply, they fully expect to be 100 percent reliable in meeting all non-discounted non-interruptible demands throughout the next twenty-five years.

Source from the Metropolitan 2005 RUWMP.

Conclusion

- ❑ Water *demand and supply forecasts* are included in the planning documents of Metropolitan, Water Authority, and Otay WD.
- ❑ *Actions* necessary to develop water supplies are documented.
- ❑ WSA Report demonstrates and documents that sufficient water supplies are planned for and are intended to be available over the next 20 years.
- ❑ Metropolitan to update its IRP considering Delta issues and other potential water supply impacts.

Recommendation

That the Board of Directors approve the Water Supply Assessment Report dated November 2007 for the Otay Crossings Commerce Park.