PROGRAMMATIC SEWER SUMMARY
IN SUPPORT OF ENVIRONMENTAL IMPACT REPORT
FOR SAN YSIDRO COMMUNITY PLAN UPDATE
CITY OF SN DIEGO
SAN DIEGO COUNTY, CALIFORNIA

JOB NUMBER 16657-C

March 1, 2016

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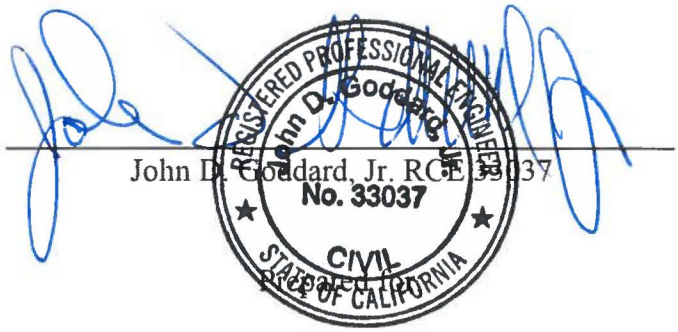

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1.0 Introduction

This report assesses the ability of the sewer collection system to support future development in accordance with the proposed San Ysidro Community Plan Update (SYCPU) and the San Ysidro Historic Village Specific Plan (SYHVSP), which is located within the community plan boundaries.

The SYCPU is a comprehensive update to the current community plan, which was adopted in 1990. The San Ysidro Community Plan covers a total of 1,863 acres within the southern tip of the City of San Diego, adjacent to Otay Mesa-Nestor, Otay Mesa, the Tijuana River Valley, and the international border with Mexico. The majority of the land uses proposed by the SYCPU would be residential. Commercial uses and industrial development would comprise approximately 18 percent and 2 percent of the community plan area, respectively. A total of 11 percent of the plan area would be designated for institutional uses. Parks and Open Space would cover 5 and 13 percent of the area, respectively. The balance would be occupied by transportation facilities.

The SYHVSP is a comprehensive planning document that will implement the vision for the SYCPU for this Specific Plan Area. The SYHVSP covers approximately 112 acres, and is bounded by Beyer Boulevard to the north, I-5 to the south, I-805 to the east, and Smythe Avenue to the west. The land uses within the SYHVSP would include: residential, commercial, institutional, and park.

2.0 Sewer Collection System – Existing Condition

The City's PUD provides wastewater collection, treatment, reclamation and disposal services to the San Ysidro Community through its Metropolitan Sewerage System. Sewer flows generated within the San Ysidro Community Plan area are conveyed through the San Ysidro Sewer Interceptor which conveys sewer flows to the Grove Avenue Pump Station (GAPS) located northwest of San Ysidro, see Attachment A. An existing 42-inch Otay Mesa trunk sewer main flows into San Ysidro at the northeast corner of the San Ysidro community in Otay Mesa Road, north of Beyer Blvd. Wastewater from the Otay Mesa trunk 42-inch sewer is then conveyed through a main that varies in size from 10-, 12- and 15-inches sewer mains. This main then discharges into the eastern end of the San Ysidro (trunk sewer) Interceptor, just west of Bolton Hall Road.

The San Ysidro Interceptor currently services the San Ysidro and Cottonwood Road sewer basin areas with its 24- and 30-inch trunk segments located between Bolton Hall Road and Dairy Mart Road, along Calle Primera then running in a westerly direction towards Dairy Mart Road. This Interceptor also services the Princess Del Sol and Montgomery Palisades sewer basin areas with its 36-inch trunk segments, flowing in a northwesterly direction along Dairy Mart Road, adjacent to Interstate 5, toward the Grove Avenue Pump Station (GAPS). Refer to the San Ysidro Community Sewer Map Existing Condition exhibit, Attachment A of this report, for an overview of existing public sewer infrastructure.

The GAPS collects wastewater generated by the entire San Ysidro community, which is then combined with wastewater from the remainder of the Otay Mesa

Community Plan Area via a force sewer main from the Otay River Pump Station (ORPS), see Attachment A-2. The ORPS collects wastewater from the Otay Valley Trunk Sewer from the east, and wastewater from parts of the Nestor and Imperial Beach communities.

Wastewater from the ORPS and GAPS is pumped along Hollister, Sunset, and Dairy Mart Roads to the South Bay Water Reclamation Plant (SBWRP), located at the south end of Dairy Mart Road near the US/Mexico border. This Plant currently treats more than 15 mgd from parts of the South Bay and Tijuana, producing more than 6 mgd of recycled water, which is sold to the Otay Water District and others. The sludge generated at the SBWRP is ultimately pumped back to the Point Loma Wastewater Treatment Plant. The treated effluent is piped to the west along the Tijuana River Valley to the ocean outfall.

3.0 Sewer Collection System – Deficiencies and Remedies

Based on coordination with the City PUD and their wastewater modeling group, it was determined that three segments of the San Ysidro Interceptor will potentially require upgrades, while one series of sewer mains will require complete replacement with a new trunk sewer segment. Refer to the San Ysidro Community Sewer Map Proposed Condition exhibit, Attachment B of this report, for the locations of these sewer segments.

The existing 42-inch Otay Mesa Trunk sewer discharges in to the San Ysidro sewer system on the east side of Interstate 805 (refer to Attachment B for location). The Otay Mesa Trunk sewer was designed prior to the publishing of the SANDAG Series 12 population data, and therefore is oversized. To adequately convey sewer flows from the Otay mesa Trunk, construction of a new trunk sewer segment between Otay Mesa Road, north of Beyer Boulevard and the San Ysidro Interceptor, just west of Bolton Hall Road, will be required. This new trunk sewer will be approximately 4,500 feet in length and will vary in size from 24-inch to 30-inch. This new trunk sewer segment will collect wastewater from the growing Otay Mesa community. Funding for this new trunk sewer will be made a requirement of future development in this area.

Approximately 7,300 linear feet of existing 24- and 30-inch San Ysidro Sewer Interceptor between Bolton Hall Road and Dairy Mart Road, and approximately 10,800 feet of existing 36-inch San Ysidro Sewer Interceptor between Dairy Mart Road and the GAPS have been identified by PUD as requiring potential upgrades. Certain portions of the above trunk sewer segments have been identified by PUD as being deficient and may require replacement between the years 2022 and 2030, approximately five years after the Otay Mesa Trunk Sewer is diverted from the Otay River Valley Trunk system to the San Ysidro Interceptor and the Otay Mesa Community is fully developed. Refer to the San Ysidro Sewer Assessment Map, Attachment B of this report, for locations of these recommended improvements. Per the City PUD any future upgrades to the San Ysidro Interceptor sewer would need to be funded by the City through their CIP program.

According to employment and residential population projections in the SANDAG Series 12 analysis, the following populations are/will be served by the San Ysidro Interceptor:

	2010 Population Type		2015 Population Type	
Sewer Basin Area	**Employment**	**Residential**	**Employment**	**Residential**
San Ysidro	9,790	24,540	14,380	57,280
Cottonwood Road	2,660	10,550	4,000	13,990
Montgomery Palisades	2,850	26,580	3,430	32,040
Princess Del Sol	1,440	15,480	1,620	16,640
Totals:	16,720	82,130	23,430	119,950

Lastly, as the San Ysidro Port of Entry continues to expand, and other local planned development projects (e.g., the San Ysidro Historic Village project) are processed through the City of San Diego and other governing agencies, the sanitary sewer systems local to those projects will be assessed for necessary improvements, placing the responsibility of any sewer system upgrades entirely on those projects' development.

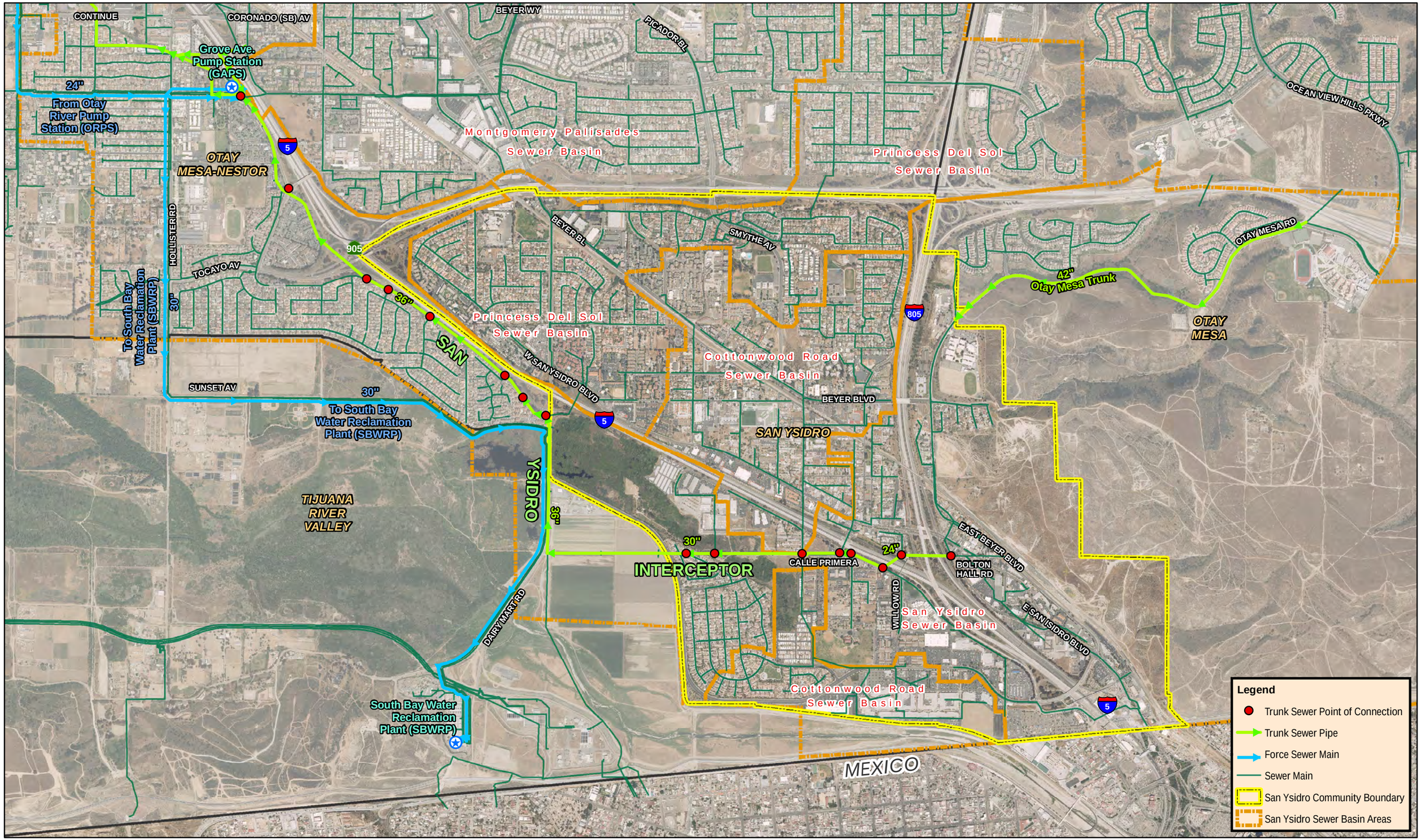
4.0 Conclusions

Based on the current condition of the existing sewer collection system serving the community plan area, including the SYHVSP, and the expectation that new sewer collection infrastructure improvements would be made a requirement of new development as it occurs, impacts of the proposed SYCPU on the sewer collection system in the community plan area would be less than significant on a programmatic level.

ATTACHMENT A:

SAN YSIDRO COMMUNITY SEWER MAP

EXISTING CONDITION



San Ysidro Community Sewer Map Existing Condition - Preliminary

Attachment A-1

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Exhibit Date: October 9, 2015

REC JN: 16657-C

0 750 1,500 3,000 Feet

Data Sources:
SanGIS Sewer Mains & Trunks: 06.2015
SanGIS Community Plan SD: 08.2014
Eagle Aerial Image: 04.2013

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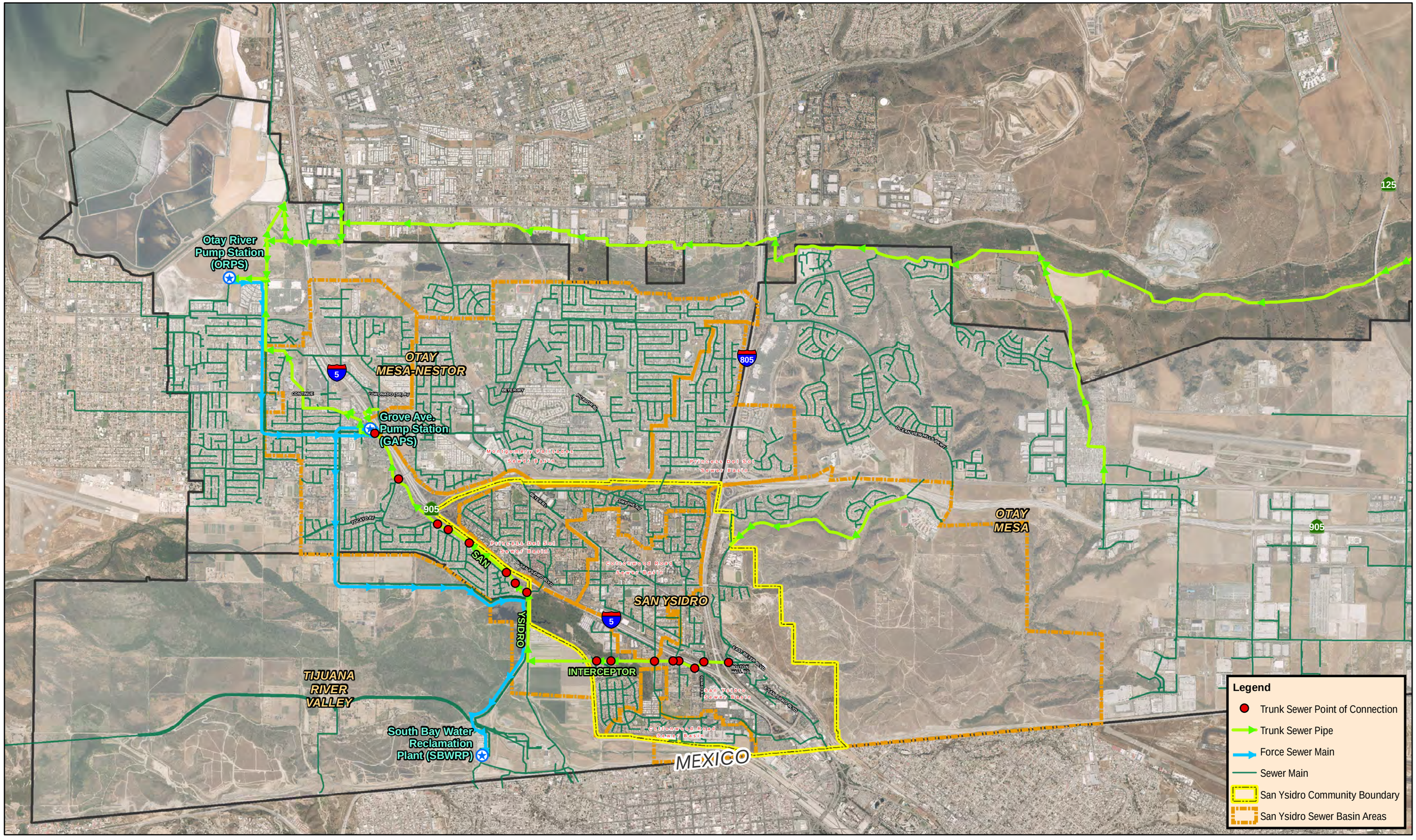

San Ysidro Community Sewer Map Existing Condition - Preliminary

Attachment A-2

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Exhibit Date: October 9, 2015

REC JN: 16657-C

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Data Sources:
SanGIS Sewer Mains & Trunks: 06.2015
SanGIS Community Plan SD: 08.2014
Eagle Aerial Image: 04.2013

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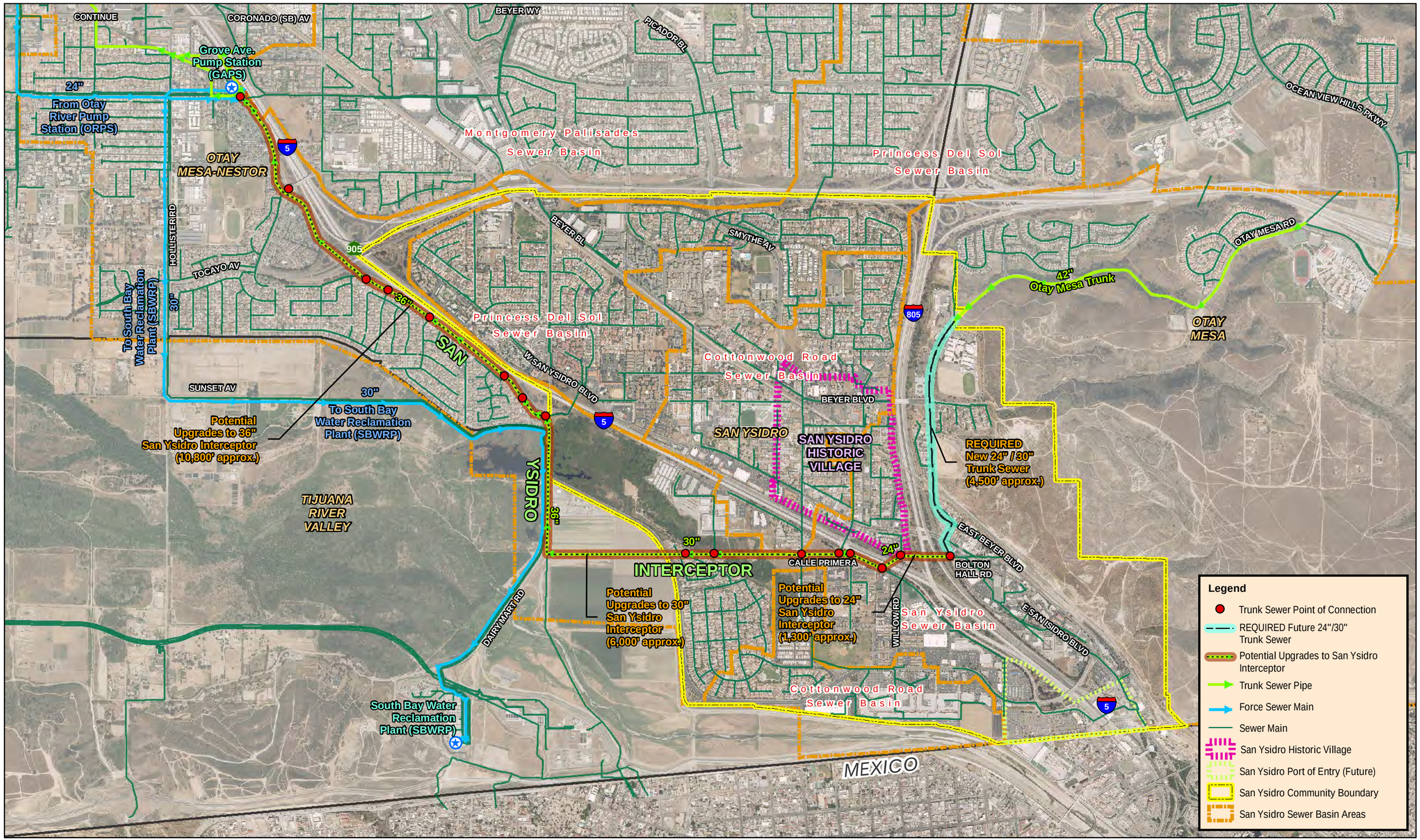
ATTACHMENT B:

SAN YSIDRO COMMUNITY SEWER MAP

PROPOSED UPGRADES



San Ysidro Community Sewer Map Proposed Upgrades - Preliminary

Attachment B

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Exhibit Date: October 9, 2015, Rev. March 8, 2016

REC JN: 16657-C

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Data Sources:
SanGIS Sewer Mains & Trunks: 06.2015
SanGIS Community Plan SD: 08.2014
Eagle Aerial Image: 04.2013

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