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PROGRAMMATIC WATER AND WASTEWATER SUMMARY

IN SUPPORT OF THE ADDENDUM FOR THE

CLAIREMONT COMMUNITY PLAN UPDATE

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WCC Project No.: 117003-02



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CITY OF SAN DIEGO

SAN DIEGO COUNTY, CALIFORNIA

JOB NUMBER: 117003-02



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Table of Contents

1.0	INTRODUCTION	1
2.0	WATER DISTRIBUTION SYSTEM	2
3.0	WASTEWATER COLLECTION SYSTEM	3
4.0	IMPLEMENTATION	4

Attachments

- A Regional Location Map
- B Existing Water Distribution System
- C Existing Wastewater Collection System

1.0 INTRODUCTION

This report provides a high-level assessment of the ability of the water distribution and wastewater collection systems to support future development in accordance with the proposed Clairemont Community Plan Update (CPU).

Clairemont is located in the north central portion of the City of San Diego (City) within San Diego County. The Clairemont CPU area encompasses approximately 8,500 acres and is bounded by State Route (SR) 52 on the north, Interstate (I-) 805 on the east, I-5 on the west, and the Linda Vista community to the south. Surrounding communities include University to the north; Kearny Mesa to the east; Linda Vista to the south; and La Jolla, Pacific Beach, and Mission Bay Park to the west.

Clairemont is one of the first post-World War II suburban developments in the City, with many of its homes built in the 1950s and 1960s. Developed areas of Clairemont occur primarily atop mesas punctuated by several major canyon systems, including Tecolote Canyon that traverse the center of the CPU area, San Clemente Canyon (also known as Marian Bear Memorial Park) in the north, and Stevenson Canyon and Padre Canyon in the western portion of the CPU area.

Clairemont is predominantly comprised of single-family residential neighborhoods. Several community and neighborhood-serving commercial centers are located at the intersections of major transportation corridors, such as Clairemont Drive and Clairemont Mesa Boulevard, as well as Balboa Avenue and Genesee Avenue. Smaller pockets of commercial development are interspersed throughout the community and within corridors along Morena Boulevard and Clairemont Mesa Boulevard.

Transit service currently consists of a number of local and express bus lines. The Mid-Coast Trolley, now under construction, will extend the Blue Line Trolley from Downtown San Diego to the Clairemont community and beyond to the University community.

The Clairemont CPU is a comprehensive update to the Clairemont Community Plan, which was originally adopted in 1989 and most recently amended in March 2020. The purpose of the CPU is to continue to guide the future growth and development of the Clairemont community. The proposed CPU provides community-specific policies that further implement the General Plan with respect to the distribution and arrangement of land uses and the local street and transit network; urban design guidelines; recommendations to preserve and enhance natural open space and historic and cultural resources; strategies to plan for the recreational needs of the community; and the prioritization and provision of public facilities within the Clairemont community. The overall vision of the proposed CPU is to guide the development of active, pedestrian-oriented nodes, corridors, districts, and unique villages that contribute to a strong sense of place and community identity, connected through a balanced transportation network that not only emphasizes walking, biking, and transit use, but acknowledges the natural network of canyons and open spaces as an integral part of intra-community connectivity.

2.0 WATER DISTRIBUTION SYSTEM

The City's Public Utilities Department (PUD) provides water for the Clairemont CPU area. Water supply to Clairemont is provided via the City's Miramar Water Treatment Plant (WTP), the City's Alvarado WTP, and the San Diego County Water Authority's (SDCWA) 2nd Aqueduct Pipeline, as summarized below:

- Alvarado WTP via the Kearny Mesa Pipeline
- Miramar WTP via the Elliot Pipeline
- SDCWA 2nd Aqueduct via the Clairemont Mesa Cross Tie Pipeline

The Clairemont CPU area includes four pressure zones: Kearny Mesa (600'), Northwest Mesa (559'), Miramar (712'), and University Heights (390'). The main pressure zone is Northwest Mesa (559'), which in general, is supplied water from the east at higher gradients, and transmits water to the west at lower grades. Pressure zones within the Clairemont CPU area and adjacent communities are serviced via the Clairemont Mesa Cross Tie Pipeline, Balboa Avenue Pipeline, Elliot Pipeline, and Morena Pipeline.

The City's Capital Improvements Program (CIP) website provides information on projects throughout the region in each stage of their development. Currently, there are six (6) phased projects within the Clairemont CPU area: two (2) in planning, two (2) in design, and two (2) in construction. The scope for five of the six projects is the segmental replacement of existing pipe with the final project being the installation of a new 36-inch water along Morena Boulevard. The majority of these projects are considered to be major maintenance driven projects and not capacity driven projects.

In summary, the Clairemont CPU area is supplied from multiple sources and is located in an area where the City's existing water distribution system is transmitting large volumes of water from higher elevations in the east to lower elevations in the west.

3.0 WASTEWATER COLLECTION SYSTEM

The City's PUD provides wastewater collection, treatment, reclamation, and disposal services to the Clairemont CPU area through its Metropolitan Sewerage System. Wastewater flows generated within the Clairemont CPU area are conveyed through four trunk sewers to a single point of connection outside of the Clairemont community boundaries. In general, all wastewater generated in the Clairemont CPU area is conveyed southwesterly towards the North Metro Interceptor (NMI). A portion of the flows will have the potential to be diverted at the proposed Morena Pump Station for treatment at the North City Water Reclamation Plant or continue through the NMI to the Point Loma Wastewater Treatment Plant. Provided below is a summary of the trunk sewer facilities that feed the Morena Trunk Sewer.

Point of Connection 1: Morena Trunk Sewer

- San Clemente Canyon Trunk Sewer
- Rose Canyon Trunk Sewer
- Tecolote Trunk Sewer
- East Clairemont Trunk Sewer

The City's CIP website shows that there are eleven (11) CIP projects with regards to wastewater infrastructure currently in the works within the Clairemont CPU area. Four (4) projects are in the planning phase, four (4) in the design phase, one (1) in the bid/award phase, and two (2) in the construction phase. The majority of these projects are considered to be major maintenance driven projects and not capacity driven projects except for the Morena Boulevard Pump Station and force main, which are a part of the City's Pure Water Program.

4.0 IMPLEMENTATION

The following sections identify implementation measures required for potential developments within the Clairemont CPU area with respect to the water distribution system and the wastewater collection system, respectively.

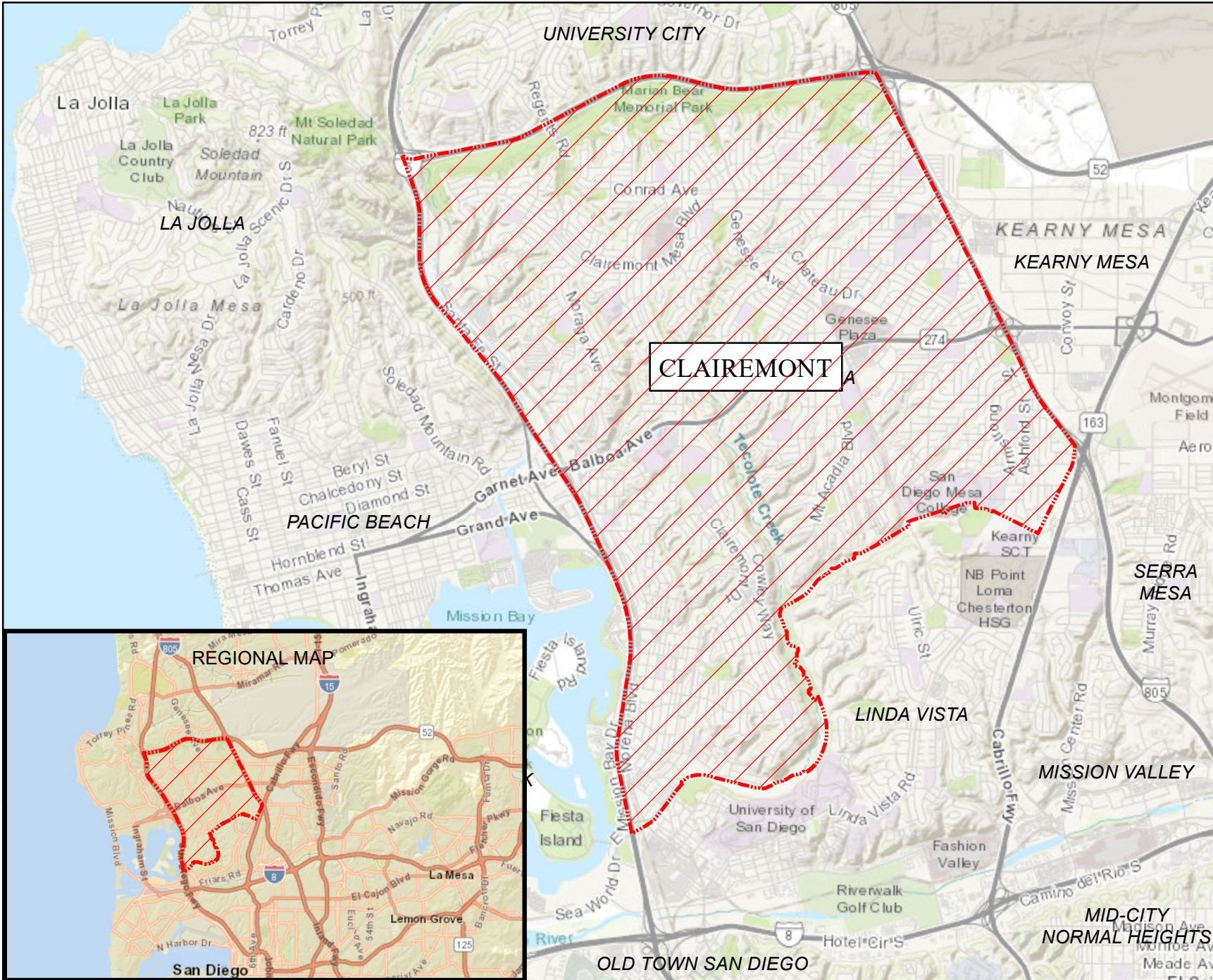
Water Distribution System

The multiple interconnected pressure zones within the region along with the abundant looping provides a strong and reliable system. Major capacity upgrades will likely not be required. Projects/developments stemming from the proposed CPU may trigger local capacity or maintenance upgrades. Per City Development Services Requirements, each project may be required to develop site-specific water studies to ensure that demands are met with regards to water service and fire flow requirements. All future projects shall adhere to the current City of San Diego Standards and Design Guidelines.

Wastewater Collection System

Although the region is well built out with no major infrastructure additions projected, routine maintenance and segmental upsizing of sanitary sewer infrastructure is anticipated. Per City Development Services Requirements, site-specific sewer studies may be required to assess the condition of sewer infrastructure pre- and post-development. It is anticipated that the sanitary sewer systems directly impacted by any future development will be assessed for upgrades, thus ceding the responsibility to upgrade the affected sewer system on to the particular projects' development.

ATTACHMENT A REGIONAL LOCATION MAP



Regional Location Map

Attachment A

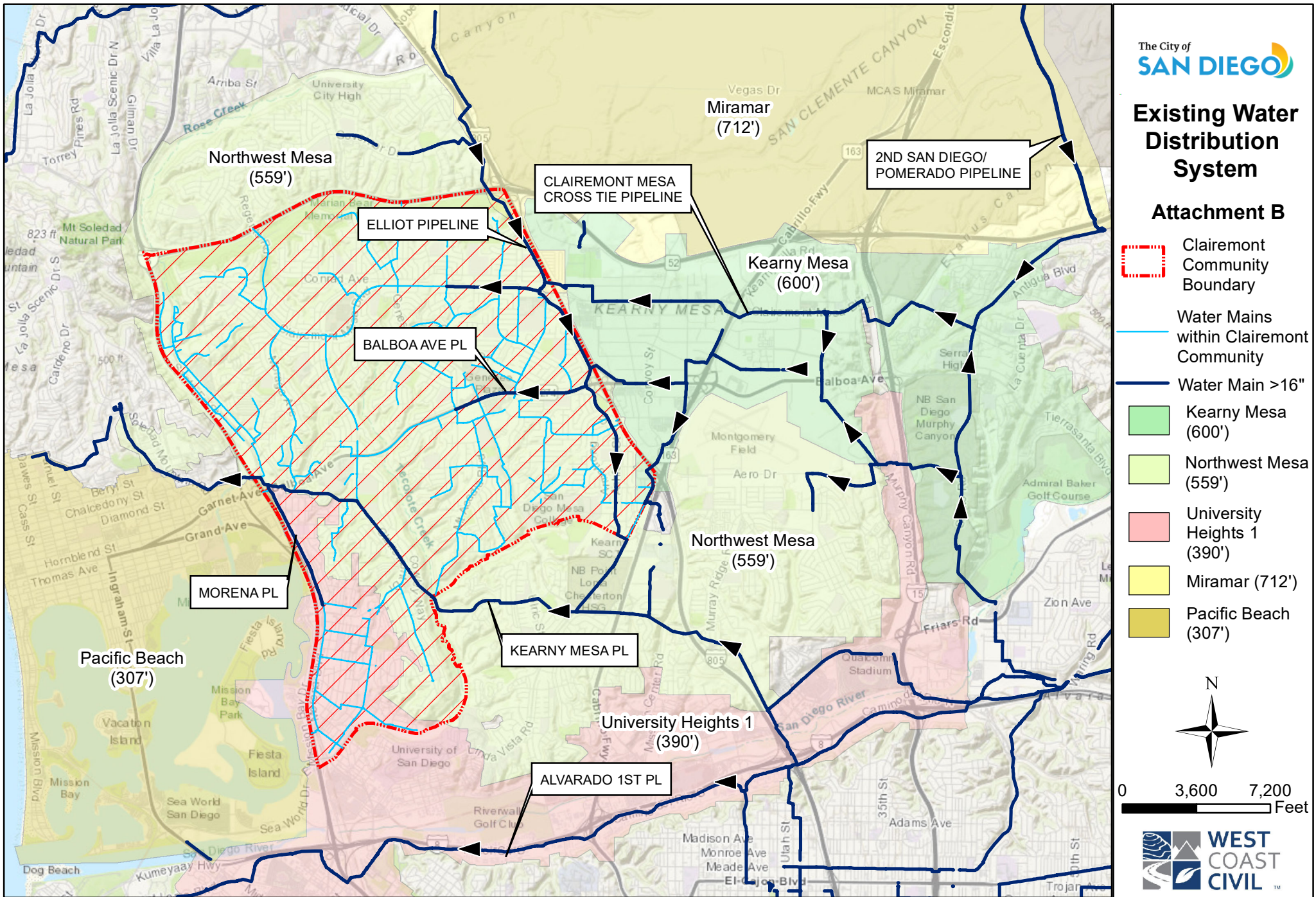
 Clairemont
Community
Boundary



0 3,000 6,000
Feet



ATTACHMENT B EXISTING WATER DISTRIBUTION SYSTEM



ATTACHMENT C EXISTING SEWER COLLECTION SYSTEM

