

3.17 UTILITIES AND SERVICE SYSTEMS

This section examines impacts associated with the West Village Expansion component of the 2018 LRDP on utilities and service systems, including the need for expanded capacity of infrastructure as a result of the West Village Expansion component.

Concerns received in response to the NOP consisted of impacts of additional and incremental demand on water supplies and treatment. Additionally, concerns with capacity levels of existing facilities and infrastructure, were expressed.

3.17.1 Regulatory Setting

Plans, policies, regulations, and laws (applicable to and/or considered for the project) are provided in Volume 1 of this EIR. As the regulatory setting provided in Volume 1 considers potential development, including the project, within the entirety of the UC Davis campus as envisioned through the 2018 LRDP, no additional regulatory setting is provided for the project.

3.17.2 Environmental Setting

Section 3.17, “Utilities and Service Systems,” in Volume 1 of this EIR, presents the physical environmental setting information related to utilities for the entire UC Davis campus, including the West Village Expansion site and remote parking area.

3.17.3 Environmental Impacts and Mitigation Measures

SIGNIFICANCE CRITERIA

Refer to Section 3.17, “Utilities and Service Systems,” in Volume 1 of this EIR for a discussion of the applicable Significance Criteria.

ANALYSIS METHODOLOGY

See Section 3.17, “Utilities and Service Systems,” in Volume 1 of this EIR for analytical methods relative to utility services.

ISSUES NOT EVALUATED FURTHER

The following impacts were identified as part of the analysis of the 2018 LRDP, and are either (1) adequately evaluated at the program level of analysis of the 2018 LRDP, or (2) not applicable to the West Village Expansion component.

Water Supply

As discussed in Section 3.17, “Utilities and Service Systems,” of the 2018 LRDP EIR, UC Davis has capacity to provide sufficient water supplies to serve the campus population’s demand through 2030–2031 academic year. Through the Woodland Davis Clean Water Agency, as well as the

demonstrated ability to continue using groundwater supplies from the deep aquifer, the impact of the 2018 LRDP, which includes the West Village Expansion, would be less than significant. Therefore, no additional project-level analysis is necessary.

Water Infrastructure

New on-site water distribution infrastructure would be required and is included as a project component (refer to Chapter 2, “Project Description,” of this volume). However, based on the size and remaining capacity of existing infrastructure that would serve the West Village Expansion site, off-site improvements are not anticipated to be necessary (West Yost 2017a). The analysis of the 2018 LRDP, which included the West Village Expansion component and was provided in Volume 1, determined impacts to be less than significant. No additional project-level analysis is necessary.

Wastewater Treatment

As discussed in Section 3.17, “Utilities and Service Systems,” of Volume 1, the existing wastewater treatment plant for all of UC Davis has adequate capacity to provide sufficient wastewater treatment to serve the campus with implementation of the 2018 LRDP, including the West Village Expansion. This 2018 LRDP-related impact would therefore be less than significant. No additional project-level analysis is necessary.

Solid Waste

As discussed in Section 3.17, “Utilities and Service Systems,” of Volume 1, there is sufficient capacity at Yolo County Landfill to handle the solid waste demands of UC Davis with implementation of the 2018 LRDP, including the West Village Expansion component. The impacts of the 2018 LRDP, including the West Village Expansion, would be less than significant. No additional project-level analysis is necessary.

Demand for Energy Services and Facilities the Construction of Which Would Result in Significant Environmental Impacts

As noted in Section 3.6, “Energy,” of Volume 1, Pacific Gas & Electric (PG&E) provides electricity distribution infrastructure to customers in Yolo County, including those of the Western Area Power Association. As a public-private partnership (P3) development, the West Village Expansion component would connect directly to PG&E lines located within West Village and near the remote parking area. Approximately 15,000 linear feet of new underground electric utility lines would be installed, 7,500 of which would be associated with security lighting at the remote parking area. The impacts associated with changes in localized energy infrastructure are accounted for in the analysis of the 2018 LRDP EIR. No additional project-level analysis is necessary.

PROJECT-SPECIFIC IMPACTS AND MITIGATION MEASURES

Impact 3.17-1: Require construction of new/expanded wastewater infrastructure.

Development and occupancy of the West Village Expansion site would increase the amount of wastewater generated in the immediate area. Certain elements of the existing wastewater collection system, including the existing sewer lift station in West Village and the existing sewer pipe located within Celadon Street, have limited available capacity to accommodate additional wastewater flows under peak conditions. This would be a **potentially significant** impact.

As noted in Chapter 2, “Project Description,” of this volume of the EIR, new on-site infrastructure would be required and is included as a component of the West Village Expansion, the impacts of which are evaluated herein (refer to Sections 3.1 through 3.16 of this volume). Development of the remote parking area would not include the construction of uses that would generate wastewater, and as such, no infrastructure related to wastewater collection/treatment would be required at the remote parking area. Upon exiting the West Village Expansion site, wastewater from the West Village Expansion site would likely flow to an existing 8-inch sewer line segment located within Celadon Street and then connect to a 12-inch diameter line located further south within Celadon Road. Even though, the 8-inch line was adequately sized to accommodate wastewater flows within West Village under existing conditions, additional capacity is necessary to accommodate peak flows with further development of West Village (West Yost 2017b). Further, the existing sewer lift station located within west campus, south of the West Village Expansion site, may not have adequate pumping capacity to accommodate peak wastewater flows (West Yost 2017b). As a result, impacts would be considered **potentially significant**.

WVE Mitigation Measure 3.17-1a: Upsize Sewer Line within Celadon Street.

Prior to operation of student housing at the West Village Expansion site, UC Davis shall replace the existing 8-inch sewer line segment currently within the northern portion of Celadon Street with either a 10-inch or 12-inch sewer line. The length of the line to be replaced is approximately 400 feet and extends between the West Village site and the 12-inch sewer line segment within Celadon Road, beginning at Jade Street.

WVE Mitigation Measure 3.17-1b: Improve Existing Sewer Lift Station (SSLS-12A).

Prior to operation of student housing at the West Village Expansion site, UC Davis shall replace the existing sewer pumps at Sewer Lift Station SSLS-12A such that the station is capable of pumping up to approximately 2,000 gallons per minute (gpm), a 300 gpm increase above existing capacity.

Significance after Mitigation

With the additional sewer pipe and pumping capacity that would be provided by WVE Mitigation Measures 3.17-1a and 3.17-1b, adequate capacity would be available within the wastewater collection system serving the West Village Expansion site to accommodate increased flows associated with the additional student housing. Further, the proposed improvements would be constructed within additional right-of-way, including paved streets, such that the potential impacts of these improvements would be minimal and evaluated as part of the project-level analysis contained herein. As a result, impacts would be **less than significant**.

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