

**SECTION 5.0**

**SIGNIFICANT ENVIRONMENTAL EFFECTS THAT CANNOT BE AVOIDED  
IF THE PROPOSED PROJECT IS IMPLEMENTED**

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The potential for implementation of the *Arroyo Seco Master Plan project* (proposed project) to result in cumulative or long-term effects has been analyzed. A list of related projects was compiled to include those anticipated by the City of Pasadena. A list of related projects is provided in Table 2.5-1, *Related Projects*. The evaluation of cumulative and long-term effects is included in Section 3.0, *Existing Conditions, Impacts, Mitigation Measures and Level of Significance after Mitigation*. As a result of the environmental analysis, it has been determined that the proposed project will not contribute to significant cumulative impacts on the environment.

**Aesthetics**

The proposed project, in addition to the related projects in the vicinity of the Arroyo Seco, will not result in cumulative significant environmental impacts. The Arroyo Seco Design Guidelines would enhance the proposed project area.

**Air Quality**

The analysis of impacts to air quality from construction, regional operational, and local operational emissions was based on the traffic report that considered the proposed project and related projects. Therefore, there will be no anticipated additional cumulative impacts to air quality.

**Biological Resources**

There would be no anticipated cumulative impact on biological resources from the implementation of the proposed project. The project proposed to restore biological resources within the proposed project area.

**Cultural Resources**

There would be no anticipated cumulative impacts on cultural resources from the implementation of the proposed project. The project proposes to restore cultural resources within the proposed project area, as well as avoid any construction-related impacts to known archeological sites within the area.

### **Geology and Soils**

The proposed project would not be expected to result in cumulative impacts related to exposure of people and structures to hazards from geology or soils. If the design, construction, and maintenance of the project components follow the standards enforced by the City of Pasadena in the normal course of business, there would be no significant impacts.

## **Hazards and Hazardous Materials**

The proposed project would not contribute to cumulative impacts related to the exposure of people or structures to hazards or hazardous materials through the routine use or transport of such materials. Implementation of the proposed project would temporarily expose construction workers to impacts related to hazards and hazardous materials during the renovation or relocation of storm drains, sewage systems, and water transports systems (pump stations). However, given the implementation of mitigation measures, these impacts would be reduced to below the level of significance.

## **Hydrology and Water Quality**

The proposed project would not result in cumulative impacts to regional or local hydrology or water quality. A Standard Urban Stormwater Mitigation Program will be implemented for all construction-related activities in order to avoid cumulative impacts to water quality within the proposed project area.

## **Minerals**

The proposed project would not result in cumulative impacts to mineral resources. Given that construction activities turn up large amounts of mineral resources of regional or local importance, the proposed project includes mitigation measures that will provide for the collection of Arroyo Stone, which will ensure the protection of minerals of local importance.

## **Noise**

The proposed project would not result in cumulative impacts on ambient noise levels. There would be short-term impacts to ambient noise levels during construction. Most of the proposed improvements are consistent with the existing range of recreation uses that occur in the Upper Arroyo Seco, Central Arroyo Seco, and Lower Arroyo Seco and would be expected to have a limited effect on ambient noise levels or sensitive noise receptors.

## **Public Services**

Without the implementation of mitigation measures to reduce the significant impacts to below the level of significance, implementation of the proposed project may have a cumulative effect on police protective and emergency services as other proposed specific plans within the City are approved and implemented. However, given that the mitigation measures are implemented, there would be no cumulative impact on public services.

## **Recreation**

The proposed project would not result in cumulative impacts of recreation. The proposed project is intended to improve facilities within an existing recreational area. The proposed project elements may incur a short-term construction/rehabilitation impact to recreational facilities requiring the implementation of mitigation measures. There will be no long-term impacts as a result of the proposed project.

## **Transportation/Traffic**

A forecast of on-street traffic conditions prior to occupancy of the proposed project was prepared by incorporating the potential trips associated with other known development projects (related projects) in the area. With this information, the potential impact of the proposed project can be evaluated within the context of the cumulative impact of all ongoing development. This analysis concluded that the proposed project would not be expected to contribute to cumulative impacts to traffic. Impacts to traffic would be limited to the construction period.

## **Utilities and Service Systems**

The proposed project would not contribute to significant impacts to utilities and service systems. Construction and renovation activities would generate solid waste that would contribute to cumulative impacts to solid waste management facilities in the City of Pasadena, however, implementation of mitigation measures would reduce potential impacts to below the level of significance.