

SECTION 5.0 ***EXECUTIVE SUMMARY***

This draft *Master Environmental Impact Report (Master EIR)* has been prepared pursuant to the California Environmental Quality Act (CEQA) to inform the lead agency (City of Pasadena), and the general public about the potential significant environmental effects of the proposed *Arroyo Seco Master Plan* (proposed project). The goal of the proposed project is to provide facilities for passive and active recreation that support Policy 9.2 of the City's *Comprehensive General Plan*¹ in order to provide recreation facilities and programs to meet the diverse needs of City residents and visitors. The implementation of the proposed project would also provide opportunities for creating a pedestrian-friendly environment, including Americans with Disabilities Act (ADA) accessible trails and pathways surrounding the proposed project area; conserve a living cultural history of the region compatible with designated recreation uses; develop a traffic management plan for the Central Arroyo Seco that incorporates a Rose Bowl shuttle route; and implement recreation improvements consistent with the County of Los Angeles Sheriff's Department Crime Prevention Through Environmental Design Guidelines.

S.1 PROPOSED ACTION

The proposed project consists of five elements: (1) *Hahamongna Watershed Park Master Plan (HMP)*, (2) *Central Arroyo Seco Master Plan (CAMP)*, (3) *Lower Arroyo Seco Master Plan (LAMP)*, (4) Rose Bowl Operating Company Use Plan, and (5) Design Guidelines. The proposed project would make available the use of Proposition A funding for selected components of the HMP element of the proposed project. Numerous other improvements would be implemented as funding becomes available. The proposed project considers a comprehensive set of improvements in the Upper Arroyo Seco, Central Arroyo Seco, and Lower Arroyo Seco which include flood control, water conservation measures, habitat restoration, and passive and active recreation opportunities.

Hahamongna Watershed Park Master Plan

The Upper Arroyo Seco extends from the City boundary with the Angeles National Forest south to Devil's Gate Dam. The HMP element of the proposed project recommends improvements to the southernmost 300 acres of the Upper Arroyo Seco, operated as Hahamongna Watershed Park. The HMP element is the product of a 35-month planning effort undertaken by the Hahamongna Operating Committee and conceptually approved by the City Council in November 1999. The HMP would guide proposed improvements to this existing developed area of the Upper Arroyo Seco. The HMP element of the proposed project would provide for relocation, rehabilitation, and expansion of existing facilities; construction of new facilities; modifications to existing operations; opportunities for water conservation and flood control; creation of an east and west lake for passive recreation

¹ City of Pasadena, Planning Division, 1994. *City of Pasadena Comprehensive General Plan*. Contact: Community Planning Section, 175 North Garfield Avenue, Pasadena, CA 91109-7215.

use; multi-use athletic field development and improvements; construction of new parking area, including a 1,200-space multi-level parking structure; westside and eastside park access improvements; picnic, camping and restroom facility improvements; children's play area development and improvements; disc golf course improvements; equestrian staging area improvements; development of a native plant nursery; multi-use trail developments and improvements; habitat restoration opportunities; and bicycle route developments.

Central Arroyo Seco Master Plan

The 550-acre Central Arroyo Seco extends from Devil's Gate Dam southward to the Colorado Street Bridge. The Central Arroyo Seco is terminated by commercial recreation facilities. The CAMP element of the proposed project is the product of the planning process undertaken by the Recreation and Parks Commission and currently under review for conceptual approval by the City Council. The CAMP element would modify and enhance existing facilities to better accommodate existing and anticipated levels of recreation use. The CAMP components include the development of pedestrian pathways; parking turf improvements; picnic area improvements and developments; hillside improvements; multi-use recreation trail improvements; landscape and aesthetic improvements; and development of a three mile recreation loop around the Rose Bowl stadium to safely accommodate pedestrians, cyclists, and automobiles.

Lower Arroyo Seco Master Plan

The 150-acre Lower Arroyo Seco extends from the Colorado Street Bridge south to the City's boundary with the City of South Pasadena. The genesis of the LAMP was a study undertaken by a team of graduate students at California State Polytechnic University (Cal Poly) of Pomona.² The City completed portions of the habitat restoration recommended in the Cal Poly plan. The City, through its Recreation and Parks Commission, has updated the LAMP element of the proposed project to focus on enhancement and expansion of existing facilities that would better serve existing and anticipated recreation users. The LAMP components include a new south entrance into the park; enhancement of the main entrance; archery range and archery range clubhouse improvements; landscape enhancements and restoration; westside and eastside multi-use trail improvements; memorial grove restorations; casting pond improvements; installation of a new pedestrian bridge; and maintenance and enhancements of regional trail connections.

Rose Bowl Operating Company Use Plan

The Rose Bowl Operating Company (RBOC) has requested that the City Council approve a Rose Bowl Use Plan that would allow 25 major events, or displacement events, to be permitted annually. The definition of a major event would be an event that has a minimum of 20,000 attendees.

² City of Pasadena, June 1988. *Master Plan for the Lower Arroyo Seco*. Contact: 100 N. Garfield Avenue, Pasadena, CA 91109. Prepared by: California State Polytechnic University, Department of Landscape Architecture, Graduate Program, Pomona, CA.

Design Guidelines

The Arroyo Seco Design Guidelines would set standards to protect the natural and cultural integrity of the proposed project area, while acknowledging that it is a regional recreation facility. Throughout the community workshops undertaken for the three spatial elements of the proposed project (HMP, CAMP, and LAMP), participants expressed concerns about the potential to adversely effect the aesthetic, natural, and cultural integrity of the proposed project area due to lack of design standards. These proposed design guidelines are intended to set standards for the scope of improvements envisioned in the HMP, CAMP, and LAMP elements of the proposed project and include habitat restoration and land improvements; architecture; cultural resource preservation; recreation; signage; walls, fences, and gates; walkways, paths, and trails; parking and traffic control; public art; and site furnishings.

S.2 AREAS OF CONTROVERSY KNOWN TO THE CITY

This draft *Master EIR* addresses the areas of environmental sensitivity known to the City, raised by agencies and the public during the scoping process for the proposed project. There are five primary areas of controversy that have been raised in relation to the proposed project.

- There is a demand for multi-use trails to accommodate the variety of uses within the proposed project area including equestrian, cyclist, and pedestrian uses. Currently, the trails are not designed to industry standards for multiple uses. Section 2.0, Project Description, includes components for designating trails and roadways for the variety of uses, including the separated three-mile recreation loop within the CAMP element of the proposed project.
- There is a concern over cumulative water quality impacts from surface run-off, equestrian waste, the JPL superfund site, and sedimentation in the spreading basin. Section 2.0, Project Description, describes components of the proposed project that would be implemented to reduce the potential for water quality impacts such as sediment management, landscaping and construction of proposed project components outside the 100-year flood zone area. Section 3.6, Hazards and Hazardous Materials, and Section 3.7, Hydrology and Water Quality, contain information concerning the JPL superfund site, as well as the Standard Urban Stormwater Mitigation Plan (SUSMP) that is required by the County of Los Angeles Department of Public Works for specified projects.
- The HMP element of the proposed project contains habitat for the federally listed endangered arroyo toad (*Bufo californicus*) that has been designated as critical habitat by the U.S. Fish and Wildlife Service. There are concerns that implementation of the proposed project would impact the designated critical habitat for the arroyo toad. Section 3.3, Biological Resources, contains mitigation

measures that would reduce the potentially significant impacts that may occur from the implementation of the proposed project to below the level of significance. Section 4.0, Alternatives to the Proposed Project, also contains an analysis of an alternative that eliminates all project components that would have the potential to impact designated critical habitat of the arroyo toad.

- There are many issues raised concerning safety around the proposed project area, specifically around the Rose Bowl stadium. Section 2.0, Project Description, describes components for creating a safer environment, which include reducing speed limits and installation throughout the proposed project area of new light sources. Landscaping within the proposed project area would be designed consistent with guidelines provided in *Crime Prevention through Environmental Design*³; utilizing a plant palette that is sensitive to public safety concerns.
- There are many concerns over the covering of the flood control channel through the Central Arroyo Seco area of the proposed project. This component has been removed from the proposed project description.

³ Los Angeles County Sheriff's Department / ROM

S.3 ISSUES TO BE RESOLVED

The issues to be resolved by the City include the choice among alternatives, including the proposed project, and whether or how to mitigate the significant environmental effects of the proposed project.

S.4 POTENTIAL IMPACTS FOUND NOT TO BE SIGNIFICANT

In the analysis undertaken in support of the *Initial Study*,⁴ the public scoping process, and the Notice of Preparation (NOP), the City determined that there are several environmental issue areas pursuant to CEQA that are not expected to have significant impacts resulting from implementation of the proposed project. These issue areas are agricultural resources, land use and planning, and population and housing. These issue areas were not carried forward for detailed analysis in this draft *Master EIR*. Therefore, these issues are briefly described below.

Agricultural Resources: The zoning for the proposed project area does not include any agricultural uses, and surrounding land use does not include farmland. No prime farmland, unique farmland, or farmland of statewide importance is present. No significant impacts on agricultural resources are anticipated.

Land Use and Planning: The proposed project would not divide or disrupt the physical arrangement of an established community; neither would it produce a significant impact on applicable land use plans or policies adopted by state and federal agencies. Implementation of the proposed project would not result in impacts on any applicable habitat conservation plans or natural community conservation plans because no such plans exist. Therefore, improvements within the proposed project area would not be expected to constitute a substantial alteration of the present or planned land use for the area. No significant impacts to land use and planning are anticipated.

Population and Housing: No new residential homes are planned as a result of the proposed project. The proposed project elements contain guidelines for new roads and recreational activities that are not expected to impact population and housing growth in the area. The proposed project site is contained within existing designated open space boundaries, and implementation of the proposed project would not be expected to displace housing. Improvements within the proposed project area would not be expected to affect existing housing or create demand for additional housing. No significant impacts to population and housing are anticipated.

S.5 SUMMARY OF IMPACTS

⁴ City of Pasadena, 2000. *Initial Study Arroyo Seco Mater Plan Project*. Contact: Department of Planning and Permitting, 175 North Garfield, Pasadena, CA 91109. Prepared by: Sapphos Environmental Inc., 133 Martin Alley, Pasadena, CA 91105.

The analysis undertaken in support of this draft *Master EIR* has determined that impacts on aesthetics, air quality, biological resources, cultural resources, geology and soils, hazards and hazardous materials, hydrology and water quality, mineral resources, noise, public services, recreation, traffic and transportation, and utilities and service systems could be mitigated below the level of significance. There would be a short term impact on air quality during construction related to nitrogen oxide (NOx) and particulate matter greater than 10 microns in diameter (PM-10) emissions. Table S.6-1, *Summary of Impacts*, presents the impacts related to each issue area analyzed that would be expected to result from implementation of the proposed project. Table S.6-1 also presents mitigation measures and level of significance after mitigation for each issues area analyzed in the draft *Master EIR*.

**TABLE S.6-1
SUMMARY OF IMPACTS**

<i>IMPACTS</i>	<i>MITIGATION MEASURES</i>	<i>LEVEL OF SIGNIFICANCE AFTER MITIGATION</i>
<i>Aesthetics</i>		
A potentially significant impact to visual character from use, storage, and cleanliness of construction equipment stored or driven beyond the limits of the construction work area.	<p>Measure Aesthetic -- 1 The City of Pasadena shall require construction contractors to strictly control the staging of construction equipment and the cleanliness of construction equipment stored or driven beyond the limits of the construction work area as a means of minimizing temporal degradation of the visual character of surrounding areas and the associated impact to aesthetics. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that all construction vehicles and equipment shall be parked in designated staging areas when not in use. Vehicles shall be kept clean and free of mud and dust before leaving the project site (see Measure Air-5). Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p> <p>Measure Aesthetic - 2 The City of Pasadena shall require construction contractors to provide temporary screening from the present public view site, around construction work areas, for all improvements that grading and temporary closures for trails during construction and enhancement, as a means of minimizing the temporal effects to the visual character of the surrounding area and the associated impacts to aesthetics.</p>	Incorporation of mitigation Measure Aesthetic-1 and Measure Aesthetic -2 would reduce the temporal effects on the visual character of the site and surrounding areas from construction to below the threshold of significance
A potentially significant impact to aesthetics from the installation of security lighting and	<p>Measure Aesthetic - 3 The City of Pasadena shall specify the lighting</p>	Incorporation of mitigation Measure Aesthetic-3 and Measure Aesthetic-4 would mitigate the

<p>other night lighting fixtures.</p>	<p>type and placement within the Arroyo Seco to ensure that the effects of security lighting are limited to designated recreational use areas and appurtenant facilities as a means of minimizing night lighting and the associated impacts to aesthetics. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that all light fixtures will use glare-control visors, arc tube suppression caps, and will use a photometric design that maintains 70 percent of the light intensity in the lower half of the light beam. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p> <p>Measure Aesthetic - 4 The City of Pasadena shall specify the placement and angle of lighting fixtures within the Arroyo Seco to ensure the protection of night views from public vantage points and areas designated for use as native habitats. Specifically, the City shall require that light be designed to conform essentially to the existing condition, as a means of minimizing increases in night lighting and the associated impacts to aesthetics. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that appropriate light fixture aiming angles are maintained, light standards shall not be more than 70 feet in height. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	<p>increase in lighting, and the effects on nighttime views and areas dedicated to habitat conservation to below the threshold of significance.</p>
<p>A potentially significant impact from the construction of a six-level parking structure in an area devoid of structures greater than one story.</p>	<p>Measure Aesthetic - 5 The City of Pasadena shall require that the six-level parking structure be screened to the maximum extent practicable as a means of reducing adverse effects to visual characteristics of that site and surrounding areas in the Upper</p>	<p>Incorporation of mitigation Measure Aesthetic-5 would not be expected to reduce the impacts to aesthetics below the level of significance. Design of the six-level parking structure consistent with the specifications of Measure Aesthetic-5 would reduce impacts to the maximum extent</p>

	<p>Arroyo Seco, and the associated impacts to aesthetics. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that the new parking structure has been screened to the maximum extent practicable to obstruct views of the building and to limit the amount of excess light and glare. It is anticipated that screening would be composed of a combination of partial burial or berming of the structure, vegetative treatment, and the use of colors and materials that are sympathetic to the surrounding Upper Arroyo Seco. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	<p>practicable. However, due to the potential height of the structure and its propensity to be visible from numerous public views, it is anticipated that the structure's impact to aesthetics would remain significant after mitigation.</p>
<p>A potential significant impact from the construction of new structures that is not sensitive to the visual character of the site and surrounding area, and the Design Guidelines.</p>	<p>Measure Aesthetic - 6 The City of Pasadena shall require that all new structures in the Upper Arroyo Seco and the Lower Arroyo Seco be finished in unobtrusive colors, as a means of minimizing potential effects to the visual characteristics of the site and surrounding area in the Upper Arroyo Seco and Lower Arroyo Seco, and the associated impacts to aesthetics. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that new structures be painted with earth tone colors to ensure that the buildings blend in with their surroundings to the extent possible. Completion of this measure shall be monitored and enforced by the City of Pasadena Planning and Permitting Department.</p> <p>Measure Aesthetic - 7 The City of Pasadena shall require that all structured improvements recommended as components to the Arroyo Seco Master Plan conform to the Design Guideline established pursuant to the plan, as a means of minimizing potential effects to the visual characteristics of</p>	<p>Design of new structures consistent with the requirements of Measure Aesthetic-6 and Measure Aesthetic-7 would reduce potential impacts to aesthetics to below the threshold of significance.</p>

	<p>the site and surrounding areas and the associated impacts to aesthetics. Prior to completion of final plans and specifications for all structural improvements, the City shall submit the plans and specifications to the Design Commission for a determination as to their conformance with adopted Design Guidelines. Completion of this measure shall be monitored and enforced by the City of Pasadena Planning and Permitting Department.</p>	
Air Quality		
<p>During construction, there would be unavoidable significant emissions of both NO_x and PM₁₀ from construction on the peak day and in the peak quarter.</p>	<p>Measure Air-1 The City of Pasadena shall require wetting of soils for all grading activities undertaken to implement the specified project components that are expected to affect areas of greater than 1 acre in size as a means of reducing PM₁₀ emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that soils are moistened prior to grading and soil moisture content is maintained at a minimum of 12 percent for all grading activities. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.</p> <p>Measure Air-2 The City of Pasadena shall require wetting of soils for all grading activities undertaken to implement the specified project components that are expected to affect areas of greater than 1 acre in size as a means of reducing PM₁₀ emissions to the maximum extent practicable.</p>	<p>Implementation of Measures Air-1 through Air-11 would minimize the amount of pollutants emitted by construction activities to the extent feasible. However, peak day and peak quarter NO_x and PM₁₀ emissions would not be reduced below the SCAQMD threshold of significance through implementation to the specified mitigation measures. These emissions are dependent on the number and type of projects that are underway concurrently and, therefore, would be considered a short-term significant impact. There will be no anticipated significant impacts to air quality from regional operational emissions or local operational emissions.</p>

	<p>Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that surfaces undergoing active grading and all other exposed surfaces be watered at least twice a day under calm conditions. Surfaces shall be watered as often as needed on days that are windy (when wind speed is less than 25 miles per hour) or during very dry weather to maintain a surface crust and prevent the release of visible emissions from the construction site. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.</p> <p>Measure Air-3 The City of Pasadena shall require soil treatment to stabilize soils for all exposed cuts or all slopes as a means for reducing PM₁₀ to the maximum amount practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that any area that would be exposed for extended periods would be treated with a non-toxic soil conditioner to stabilize soil or would be temporarily planted with vegetation.</p> <p>Measure Air-4 The City of Pasadena shall require soil treatment to stabilize soils for all exposed cuts or all slopes</p>	
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	<p>as a means for reducing PM₁₀ to the maximum amount practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that non-toxic chemical stabilizers are applied within five working days of ceasing grading or water or dust suppressants are applied in sufficient quantity to maintain a stabilized surface. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.</p> <p>Measure Air-5 The City of Pasadena shall require construction contractors to wash equipment that would travel on public roads prior to leaving construction sites where equipment would be exposed to mud as a means of reducing PM₁₀ emissions to the maximum extent possible. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that mud-covered tires and undercarriages of trucks are washed prior to leaving construction sites. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.</p> <p>Measure Air-6</p>	
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	<p>The City of Pasadena shall require construction contractors to maintain adjacent public roads free of mud and debris from the construction site on a daily basis, as a means of reducing PM₁₀ emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to provide for street sweeping, as needed, on adjacent roadways to remove dirt dropped by construction vehicles or mud that would otherwise be carried off by trucks departing project sites. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.</p> <p>Measure Air-7</p> <p>The City of Pasadena shall require that construction contractors cover all trucks hauling dirt on public roads as a means of reducing PM₁₀ emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that loads of dirt are securely covered with a tight fitting tarp on any truck leaving or entering the construction sites to bring fill dirt to the site or to dispose of excavated soil. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena</p>	
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	<p>Department of Public Works.</p> <p>Measure Air-8 The City of Pasadena shall require that grading activities cease during periods when winds exceed 25 miles per hour, as a means of reducing PM₁₀ emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that grading is ceased during periods when winds exceed 25 miles per hour. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.</p> <p>Measure Air-9 The City of Pasadena shall require that the construction contractor ensure that all cut and fill slopes are permanently protected from erosion as a means of reducing PM₁₀ emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to provide for permanent sealing of all graded areas at the earliest practicable time after soil disturbance. The construction contractor shall demonstrate compliance with this measure through the submittal of monthly monitoring reports to the City of Pasadena Department of Public Works.</p>	
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	<p>Measure Air-10 The City of Pasadena shall require the construction contractor to ensure that all construction equipment is maintained in peak working order, as a means of reducing NO_x emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications include the requirement for the construction contractor to ensure that construction equipment is maintained in peak operating condition so as to reduce operation emissions. Specifications shall require the construction contractor to certify monthly to the City of Pasadena Department of Public Works that construction equipment is being maintained in peak operating condition.</p> <p>Measure Air-11 The City of Pasadena shall require of the construction contractor that all construction equipment not expected to be used for a period in excess of 15 minutes be turned off as a means of reducing NO_x emissions to the maximum extent practicable. Prior to advertising for construction bids for the Upper Arroyo Seco improvements, the Central Arroyo Seco improvements, or the Lower Arroyo Seco improvements, the City of Pasadena Department of Public Works shall ensure that the plans and specifications require the construction contractor to shut off engines when not expected to be in use in excess of 15 minutes.</p>	
Biological Resources		
A potentially significant impact to potentially suitable habitat of federally- and state-listed and	Measure Biological-1 The following mitigation program has been	Incorporation of Biological Measure 1 would reduce the impacts to listed and sensitive plant

<p>sensitive plant species.</p>	<p>developed and shall be implemented to ensure no net loss of federally- and state-listed and sensitive species due to impact to potentially suitable habitat.</p> <ul style="list-style-type: none"> • Prior to project component implementation, surveys would be conducted for listed and sensitive plants potentially occurring on site, to confirm that they are not present within potentially suitable habitat. • If listed or sensitive plants are observed to occur in areas that would be impacted by implementation of project elements, the plants would be avoided. Fencing will be put around the plants including buffer area to ensure plants are not impacted. The buffer area will be determined in consultation with the USFWS and CDFG. Monitoring will occur before, during, and after component implementation to ensure avoidance of the plants. 	<p>species to below the level of significance.</p>
<p>A potentially significant impact would occur to riparian habitats: southern willow scrub and mule fat scrub.</p> <p>Impacts could occur to waters of the U.S., including wetlands, as a result of filling, dredging, bridge construction, or other stream channel modification.</p>	<p>Measure Biological-2 Under federal and state regulations, the applicant would be required to mitigate the unavoidable loss of wetlands and riparian habitats such that no net loss in extent or value of wetland habitats result. The location and type of mitigation to be performed would be subject to determination by the CDFG, U.S. Army Corps of Engineers, and the USFWS. Refinement of design to avoid impacts to wetlands and waters of the United States may be required to reduce, to the degree possible, the acreage affected. The most appropriate mitigation of unavoidable impacts in most cases is creation of on site wetland communities with similar composition and functional value to those of the impacted wetlands. This is known as "on site/in kind" mitigation. Other mitigation strategies include on site/out of kind, off site/in</p>	<p>Incorporation of Biological Measure 2 would reduce the impacts to wetlands and riparian habitat to below the level of significance.</p>

	<p>kind, and off site/out of kind. Wetland areas shall be replaced on a minimal acre per acre basis and include the following elements:</p> <ul style="list-style-type: none"> • Collection of propagules (seeds, stem, and root cuttings) from existing vegetation. These shall be grown under nursery conditions until grading and site preparation for mitigated wetlands is completed. • Stockpiling of top 6 to 12 inches of wetlands soils from impacted areas when feasible. • Revegetation of wetland hydrology through excavation, redirection of runoff, or other appropriate measures. • Redistribution of wetland soils into new or expanded channels. • Planting and maintenance of vegetation until it is established. Plantings ideally should consist of the same species in slightly higher ratios (to allow for mortality) to those presently found on site. • Maintenance of a buffer zone of native vegetation surrounding retained or created wetlands (minimum of 100 feet on both sides of the incised channel is recommended). • Monitoring and removal of exotic, invasive species. 	
<p>Temporary impacts to designated critical habitat for the Arroyo southwestern toad.</p>	<p>Measure Biological-3 Prior to implementation of the Hahamongna Watershed Park Master Plan, directed surveys for arroyo toad shall be conducted according to USFWS protocol.⁵ If arroyo toad is determined to be present, any grading activities that may occur below the ordinary high water mark shall take</p>	<p>Incorporation of Biological Measure 3, and the restoration and enhancement aspects of the Master Plans would reduce the impacts related to biological resources to below the level of significance.</p>

⁵ U.S. Fish and Wildlife Service, 1999. *Survey Protocol for the Federally-Endangered Arroyo Toad (Bufo californicus)*. Carlsbad, California.

	place during the non-breeding season. Additionally, a biological monitor who holds a valid USFWS permit for Arroyo southwestern toad shall be present during grading activities and, if necessary, relocation of Arroyo southwestern toad would be conducted.	
A potentially significant impact to Nevin's barberry, a state- federally- endangered species.	<p>Measure Biological-4</p> <p>The following mitigation program has been developed to ensure no net loss of Nevin's barberry.</p> <ul style="list-style-type: none"> • Prior to project component implementation, surveys shall be conducted for Nevin's barberry to confirm that Nevin's barberry is not present in areas that would be impacted by the three mile loop improvements. • If plants are observed to occur in areas that would be impacted by improvements to the three mile loop, the plants shall be avoided. Fencing shall be put around the plants including the buffer area to ensure plants are not impacted. The buffer area shall be determined in consultation with the USFWS and the CDFG. Monitoring shall occur before, during, and after component implementation to ensure avoidance of the plants. 	Incorporation of Biological Measure 4 would reduce the impacts to Nevin's barberry to below the level of significance.
Cultural Resources		
Implementation of the proposed project has the potential to impact paleontological resources.	<p>Measure Cultural-1</p> <p>The City of Pasadena shall minimize impacts to paleontological resources from construction of the 1,200 space parking structure by requiring monitoring of excavations in parent material and bedrock and data recovery of any encountered</p>	Implementation of Mitigation Measure Cultural-1 would reduce potential impacts to paleontological resources to below the threshold for significance.

	<p>resources. The potential to disturb underlying bedrock and parent material is anticipated for a limited number of improvements in HWP and CAMP elements of the Arroyo Seco Master Plan:</p> <p>Hahamongna Watershed Park</p> <ul style="list-style-type: none"> • 1,200 space parking structure • Flint Wash bridge and north bridge • 4 public restrooms <p>Lower Arroyo Seco</p> <ul style="list-style-type: none"> • 2 public restrooms • ADA Bridge • Camel's Hump slope stabilization <p>The Vertebrate Paleontology Section of the County of Los Angeles Natural History Museum recommends that a qualified paleontologist should properly monitor any significant subsurface excavation that has the potential to affect underlying parent material on bedrock, in the project area so that the remains may be recovered quickly. Where the qualified vertebrate paleontologist identifies the potential for the grading plan to result in impacts on sediments with high potential to contain significant non-renewable paleontological resources, a program for recovery of the resources shall be designed and implemented:</p> <ul style="list-style-type: none"> ■ Monitoring of excavation in areas likely to contain paleontological resources by a qualified vertebrate paleontological monitor. The monitor should be equipped to salvage fossils, as they are unearthed to avoid construction delays and to remove samples of sediments that are likely to contain the remains of small fossil vertebrates. ■ Preparation of recovered specimens to a 	
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	<p>point of identification, including washing of sediments to recover small fossil vertebrates.</p> <ul style="list-style-type: none"> ■ Identification and curation of specimens into a museum repository with retrievable storage. ■ Preparation of a report of findings with an appended, itemized inventory of the specimens. The report and inventory, when submitted to the appropriate lead agency, signifies the completion of the program to mitigate impacts to paleontological resources. <p>Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	
<p>Implementation of the proposed project would have the potential to impact known and unknown archeological resources.</p>	<p>Measure Cultural-2</p> <p>Potential impacts to CA-LAN-26 shall be avoided by requiring that the site be noted on plans and specifications for any work within 500 feet of the known limits of this cultural resource. Prior to authorizing work within 500 feet of CA-LAN 26, the City of Pasadena Department of Public Works shall ensure that the project specifications require a qualified archeologist be present during grading activities within native soils. The archeologist shall be authorized to halt construction, if necessary, in the immediate area where buried cultural remains are encountered. Prior to the resumption of grading activities in the immediate vicinity of the cultural remains, the City of Pasadena Department of Public Works shall provide the archeologist with the necessary resources to identify and implement a program for appropriate disposition (as specified by Section 15064.5 (e) of the State</p>	<p>Implementation of Mitigation Measures Cultural-2 and Cultural-3 would reduce potential impacts to known and unknown archeological resources to below the threshold for significance.</p>

	<p>CEQA Guidelines). Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p> <p>Measure Cultural-3</p> <p>The City of Pasadena shall minimize potential impacts to currently unknown cultural resources in native soils by requiring an archeologist to be present during grading in native soils. Grading in native soils is anticipated for specified components for each element of the Arroyo Seco Master Plan:</p> <p>Hahamongna Watershed Park</p> <ul style="list-style-type: none"> • 1,200 space parking structure • 16 surface parking areas • 4 public restrooms • Johnson Field expansion • New trail segments <p>Central Arroyo Seco</p> <ul style="list-style-type: none"> • New pedestrian pathways <p>Lower Arroyo Seco</p> <ul style="list-style-type: none"> • 2 surface parking areas • 2 public restrooms • New trail segments • New pedestrian pathways • Placement of boulders of sufficient size to compress subsurface deposits <p>Prior to the initiation of grading activities in native soils, the City of Pasadena Department of Public Works shall ensure that the project specifications require a qualified archeologist to be present during grading activities within native soils. The archeologist shall be authorized to halt construction, if necessary, in the immediate area where buried cultural</p>	
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	<p>remains are encountered. Prior to the resumption of grading activities in the immediate vicinity of the cultural remains, the City of Pasadena Department of Public Works shall provide the archeologist with the necessary resources to identify and implement a program for appropriate disposition (as specified by Section 15064.5 (e) of the State CEQA Guidelines). Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	
<p>Implementation of the proposed project would have the potential to impact unknown Native American resources.</p>	<p>Measure Cultural-4</p> <p>The City of Pasadena shall minimize potential impacts to currently unknown Native American sites by requiring a Native American monitor to be present during grading in native soils. Grading in native soils is anticipated for specified components for the HWP and LAMP elements of the Arroyo Seco Master Plan:</p> <p>Hahamongna Watershed Park</p> <ul style="list-style-type: none"> • 1,200 space parking structure • 16 surface parking areas • 4 public restrooms • Johnson Field expansion <p>Lower Arroyo Seco</p> <ul style="list-style-type: none"> • 2 surface parking areas • 2 public restrooms <p>Prior to the initiation of grading activities in native soils, the City of Pasadena Department of Public Works shall ensure that the project specifications require a qualified Native American monitor to be present during grading activities within native soils. The Native American monitor shall be authorized to halt</p>	<p>Implementation of Measure Cultural-4 would reduce potential impacts to unknown Native American resources to below the threshold for significance.</p>

	<p>construction, if necessary, in the immediate area where buried cultural remains are encountered. Prior to the resumption of grading activities in the immediate vicinity of the cultural remains, the City of Pasadena Department of Public Works shall provide the Native American monitor with the necessary resources to identify and implement a program for appropriate disposition (as specified by Section 15064.5 (e) of the State CEQA Guidelines). Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	
<p>Implementation of the proposed project would have the potential to uncover human remains during construction activities.</p>	<p>Measure Cultural-5</p> <p>The City of Pasadena shall minimize the potential for unauthorized disturbance of human remains by conducting a pre-construction briefing with all heavy equipment operators who would potentially be grading in the Arroyo Seco. Grading in native soils is anticipated for specified components for the HWP and CAMP elements of the Arroyo Seco Master Plan:</p> <p>Hahamongna Watershed Park</p> <ul style="list-style-type: none"> • 1,200 space parking structure • 16 surface parking areas • 4 public restrooms • Johnson Field expansion <p>Lower Arroyo Seco</p> <ul style="list-style-type: none"> • 2 surface parking areas • 2 public restrooms • New trail segments <p>During grading activities in native soils, the project specifications shall require that a pre-construction briefing be undertaken to notify the construction foreman and all personnel involved</p>	<p>Implementation of Measure Cultural-5 would reduce potential impacts to the unanticipated discovery of human remains to below the threshold for significance.</p>

	<p>in grading activities of the requirement to notify the coroner of the county within 24 hours of the discovery of human remains. Upon discovery of human remains, there shall be no further excavation or disturbance of the site or any nearby or reasonably nearby area reasonably suspected to overlie adjacent human remains until</p> <ul style="list-style-type: none"> • The coroner of the county in which the remains are discovered has been informed and has determined that no investigation of the cause of death is required, and • If the remains are of Native American origin, the descendants from the deceased Native Americans have made a recommendation to the landowner or the person responsible for the excavation work, for means of treating or disposing of, with appropriate dignity, the human remains and any associated grave goods as provided in Public Resources Code Section 5097.98. <p>Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	
<p>Implementation of the proposed project would have the potential to impact significant historic resources and their setting.</p>	<p>Measure Cultural-6</p> <p>Potential impacts to the cultural setting of the Devil's Gate Dam from the new 6,000 square foot parking lot to be constructed at the intersection of Linda Vista and Oak Grove Drive, and the associated overlook, shall be avoided by requiring that the project design conform to the National Park Service,</p>	<p>Implementation of Measures Cultural-6 and Measure Cultural-8 would reduce potential impacts to potentially significant historic resources and their setting to below the threshold of significance.</p>

	<p>Preservation Brief No. 36 <i>Protecting Cultural Landscapes: Planning Treatment and Management of Historic Resources</i>. Prior to final plans and specifications for the new 6,000 square foot parking lot to be constructed at the intersection of Linda Vista and Oak Grove Drive, and the associated overlook, a qualified architectural historian shall review the plans and specifications to appraise consistency with the National Park Service, Preservation Brief No. 36. Finalization of plans and specifications shall be contingent on a consistency determination. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p> <p>Measure Cultural-7</p> <p>Potential impacts to stone walls, rockery, amphitheater, arbor bandstand, and stone barbecue in the central Arroyo Seco, shall be avoided by requiring that the project design conform to <i>The Secretary of Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings</i> and the National Park Service, Preservation Brief No. 36 <i>Protecting Cultural Landscapes: Planning Treatment and Management of Historic Resources</i>. Prior to final plans and specifications for the rehabilitation, restoration, or reconstruction of stone walls, rockery, amphitheater, arbor bandstand, and stone barbecue in the central Arroyo Seco, a qualified architectural historian shall review the plans and specifications to appraise consistency with <i>The Secretary of Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings</i> and National</p>	
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	<p>Park Service, Preservation Brief No. 36. Finalization of plans and specifications shall be contingent on a consistency determination. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p> <p>Measure Cultural-8</p> <p>Potential impacts to casting pond in the lower Arroyo Seco, shall be avoided by requiring that the casting pond be evaluated for its historical significance prior to preparation of plans and specifications for proposed improvements. If determined to be significant, the project design conform to <i>The Secretary of Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic Buildings</i>. Prior to final plans and specifications for the rehabilitation, restoration, or reconstruction of the casting pond lower Arroyo Seco, a qualified architectural historian shall review the plans and specifications to appraise consistency with <i>The Secretary of Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring, and Reconstructing Historic</i>. Finalization of plans and specifications shall be contingent on a consistency determination. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	
Geology and Soils		
<p>The proposed project has the potential risk of loss or injury to people or property for the new parking structure located near the existing tunnel.</p>	<p>Measure Geology - 1</p> <p>The City of Pasadena shall reduce the potential risk of loss or injury for the new parking structure located near the existing tunnel by requiring conformance to all existing building</p>	<p>Implementation of the proposed project components would conform to all earthquake-related standards and guidelines. However, it should be noted that earthquakes are an unavoidable consequence of living in southern</p>

	<p>codes and regulations. Construction and operation impacts to geology and soils shall be minimized through the investigation and application of standard geotechnical remediation measures into the plans and specifications for the proposed parking area.</p> <p>Geologic and geotechnical investigations conducted for the proposed parking area shall include but not be limited to:</p> <ul style="list-style-type: none"> • Analysis of slopes in the project area and proposed project slope stability projections • Soils and subsurface conditions • Erosion potential and erosion and sedimentation controls needed for the proposed project • Results of compaction testing and recommendations for proposed project compaction requirements <p>Remediation measures for the proposed parking area would include but not be limited to the following, as applicable:</p> <ul style="list-style-type: none"> • Optimum slope design for stability and safety • Soil compaction or recompaction requirements • Liner types and locations • Soil stability to be used in construction excavation design • Erosion and sedimentation controls and locations <p>Remediation measures to minimize risk shall be specified in a site-specific report of geotechnical investigation approved by a certified engineering geologist. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	<p>California. There are no mitigation measures that can protect the public from potential hazards associated with the infrequent large, damaging earthquake. Exposure to strong ground motion and possible resulting damage to structures can not be eliminated. However, the City of Pasadena considers risk of loss, injury, or death, to people or property, to be reduced below the level of significance when measures to minimize risk are delineated in a site-specific geotechnical investigation, approved by a certified engineering geologist and implemented as specified. Therefore, compliance with Measures Geology 1 would reduce impacts related to geological hazards to below the level of significance.</p>
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<p>The proposed project has the potential risk of damage to structures from geological hazards (including liquefaction) related to construction of the water conservation pool, Westside spreading basins, eastside spreading basins, the west lake and the east lake in Hahamongna Watershed Park.</p>	<p>Measure Geology – 2</p> <p>The City of Pasadena shall reduce the potential risk of damage to structures from geological hazards (including liquefaction) related to construction of the water conservation pool, Westside spreading basins, eastside spreading basins, the west lake and the east lake in Hahamongna Watershed Park through conformance with all existing pertinent building codes and regulations. Construction and operation impacts to geology and soils shall be minimized through the investigation and application of standard geotechnical remediation measures into the plans and specifications for these improvements.</p> <p>Geologic and geotechnical investigations conducted for these improvements would include but not be limited to:</p> <ul style="list-style-type: none"> • Analysis of slopes in the project area and proposed project slope stability projections • Soils and subsurface conditions • Need for and type of liners to be designed and used to the proposed project • Erosion potential and erosion and sedimentation controls needed for the proposed project • Results of compaction testing and recommendations for proposed project compaction requirements <p>Remediation measures for the proposed parking area shall include but not be limited to the following, as applicable:</p> <ul style="list-style-type: none"> • Optimum slope design for stability and safety • Soil compaction or recompaction requirements • Liner types and locations • Soil stability to be used in construction 	<p>Implementation of the proposed project components would conform to all earthquake-related standards and guidelines. However, it should be noted that earthquakes are an unavoidable consequence of living in southern California. There are no mitigation measures that can protect the public from potential hazards associated with the infrequent large, damaging earthquake. Exposure to strong ground motion and possible resulting damage to structures can not be eliminated. However, the City of Pasadena considers risk of loss, injury, or death, to people or property, to be reduced below the level of significance when measures to minimize risk are delineated in a site-specific geotechnical investigation, approved by a certified engineering geologist and implemented as specified. Therefore, compliance with Measures Geology 2 would reduce impacts related to geological hazards to below the level of significance.</p>
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	<p>excavation design</p> <ul style="list-style-type: none"> Erosion and sedimentation controls and locations <p>Remediation measures to minimize risk shall be specified in a site-specific report of geotechnical investigation approved by a certified engineering geologist. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	
<p>The proposed project has the potential risk of loss from geological hazards related to the replacement and relocation of utilities in Hahamongna Watershed Park.</p>	<p>Measure Geology – 3</p> <p>The City of Pasadena shall reduce the potential risk of loss from geological hazards related to the replacement and relocation of utilities in Hahamongna Watershed Park through conformance with all existing building codes and regulations. Construction and operation impacts to geology and soils shall be minimized through the investigation and application of standard geotechnical remediation measures into the plans and specifications for the relocation of utilities.</p> <p>Geologic and geotechnical investigations conducted for the proposed relocation of utilities shall include but not be limited to:</p> <ul style="list-style-type: none"> Analysis of slopes in the project area and proposed project slope stability projections Soils and subsurface conditions Erosion potential and erosion and sedimentation controls needed for the proposed project Data and design recommendations for excavation and trench stability Results of compaction testing and recommendations for proposed project compaction requirements <p>Remediation measures for the proposed relocation of utilities shall include but not be</p>	<p>Implementation of the proposed project components would conform to all earthquake-related standards and guidelines. However, it should be noted that earthquakes are an unavoidable consequence of living in southern California. There are no mitigation measures that can protect the public from potential hazards associated with the infrequent large, damaging earthquake. Exposure to strong ground motion and possible resulting damage to structures can not be eliminated. However, the City of Pasadena considers risk of loss, injury, or death, to people or property, to be reduced below the level of significance when measures to minimize risk are delineated in a site-specific geotechnical investigation, approved by a certified engineering geologist and implemented as specified. Therefore, compliance with Measures Geology 3 would reduce impacts related to geological hazards to below the level of significance.</p>

	<p>limited to the following, as applicable:</p> <ul style="list-style-type: none"> • Soil compaction or recompaction requirements • Soil stability to be used in construction excavation design • Erosion and sedimentation controls and locations <p>Remediation measures to minimize risk shall be specified in a site-specific report of geotechnical investigation approved by a certified engineering geologist. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	
<p>The proposed project has the potential risk of loss or injury from geological hazards in conjunction with the multi-level parking structure, Flint Wash Bridge, and the north bridge.</p>	<p>Measure Geology - 4</p> <p>The City of Pasadena shall reduce the potential risk of loss or injury from geological hazards in conjunction with the multi-level parking structure, Flint Wash Bridge, and the north bridge through conformance to all existing building codes and regulations. Construction and operation impacts to geology and soils shall be minimized through the investigation and application of standard geotechnical remediation measures into the plans and specifications for the proposed parking structure, Flint Wash Bridge and the north bridge.</p> <p>Geologic and geotechnical investigations conducted for the proposed parking structure, Flint Wash Bridge and the north bridge would include but not be limited to:</p> <ul style="list-style-type: none"> • Analysis of slopes in the project area and proposed project slope stability projections • Soils and subsurface conditions • Erosion potential and erosion and sedimentation controls needed for the proposed project 	<p>Implementation of the proposed project components would conform to all earthquake-related standards and guidelines. However, it should be noted that earthquakes are an unavoidable consequence of living in southern California. There are no mitigation measures that can protect the public from potential hazards associated with the infrequent large, damaging earthquake. Exposure to strong ground motion and possible resulting damage to structures can not be eliminated. However, the City of Pasadena considers risk of loss, injury, or death, to people or property, to be reduced below the level of significance when measures to minimize risk are delineated in a site-specific geotechnical investigation, approved by a certified engineering geologist and implemented as specified. Therefore, compliance with Measures Geology 4 would reduce impacts related to geological hazards to below the level of significance.</p>

	<ul style="list-style-type: none"> • Results of compaction testing and recommendations for proposed project compaction requirements <p>Remediation measures for the proposed parking area shall include but not be limited to the following, as applicable:</p> <ul style="list-style-type: none"> • Optimum slope design for stability and safety • Soil compaction or recompaction requirements • Soil stability to be used in construction excavation design • Erosion and sedimentation controls and locations <p>Remediation measures to minimize risk shall be specified in a site-specific report of geotechnical investigation approved by a certified engineering geologist. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	
<p>The proposed project has the potential risk of loss or injury for the non-structural elements, such as the Sunset Overlook and embankments in stream corridors in Hahamongna Watershed Park.</p>	<p>Measure Geology - 5 The City of Pasadena shall reduce the potential risk of loss or injury for the non-structural elements, such as the Sunset Overlook and embankments in stream corridors in Hahamongna Watershed Park through conformance with all existing building codes and regulations. Construction and operation impacts to geology and soils shall be minimized through the investigation and application of standard geotechnical remediation measures into the plans and specifications for the proposed non-structural elements that require alteration of existing slopes and embankments.</p> <p>Geologic and geotechnical investigations conducted for the proposed non-structural elements that require alteration of existing</p>	<p>Implementation of the proposed project components would conform to all earthquake-related standards and guidelines. However, it should be noted that earthquakes are an unavoidable consequence of living in southern California. There are no mitigation measures that can protect the public from potential hazards associated with the infrequent large, damaging earthquake. Exposure to strong ground motion and possible resulting damage to structures can not be eliminated. However, the City of Pasadena considers risk of loss, injury, or death, to people or property, to be reduced below the level of significance when measures to minimize risk are delineated in a site-specific geotechnical investigation, approved by a certified engineering geologist and implemented as specified. Therefore, compliance with</p>

	<p>slopes and embankments shall include but not be limited to:</p> <ul style="list-style-type: none"> • Analysis of slopes in the project area and proposed project slope stability projections • Soils and subsurface conditions • Erosion potential and erosion and sedimentation controls needed for the proposed project • Results of compaction testing and recommendations for proposed project compaction requirements <p>Remediation measures for the proposed non-structural elements shall include but not be limited to the following, as applicable:</p> <ul style="list-style-type: none"> • Optimum slope design for stability and safety • Soil compaction or recompaction requirements • Soil stability to be used in construction excavation design • Erosion and sedimentation controls and locations <p>Remediation measures to minimize risk shall be specified in a site-specific report of geotechnical investigation approved by a certified engineering geologist. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	<p>Measures Geology 5 would reduce impacts related to geological hazards to below the level of significance.</p>
<p>The proposed project has the potential risk of loss or injury from field lights in the Central Arroyo.</p>	<p>Measure Geology - 6</p> <p>The City of Pasadena shall reduce the potential risk of loss or injury from field lights in the Central Arroyo through conformance with all existing building codes and regulations. Construction and operation impacts to geology and soils shall be minimized through the investigation and application of standard geotechnical remediation measures into the</p>	<p>Implementation of the proposed project components would conform to all earthquake-related standards and guidelines. However, it should be noted that earthquakes are an unavoidable consequence of living in southern California. There are no mitigation measures that can protect the public from potential hazards associated with the infrequent large, damaging earthquake. Exposure to strong</p>

	<p>plans and specifications for the proposed field lights in the Central Arroyo.</p> <p>Geologic and geotechnical investigations conducted for the proposed field lights in the Central Arroyo would include but not be limited to:</p> <ul style="list-style-type: none"> • Analysis of slopes in the project area and proposed project slope stability projections • Soils and subsurface conditions • Data and design recommendations for excavation and trench stability • Results of compaction testing and recommendations for proposed project compaction requirements <p>Remediation measures for the proposed field lights shall include but not be limited to the following, as applicable:</p> <ul style="list-style-type: none"> • Soil compaction or recompaction requirements • Soil stability to be used in construction excavation design <p>Remediation measures to minimize risk shall be specified in a site-specific report of geotechnical investigation approved by a certified engineering geologist. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	<p>ground motion and possible resulting damage to structures can not be eliminated. However, the City of Pasadena considers risk of loss, injury, or death, to people or property, to be reduced below the level of significance when measures to minimize risk are delineated in a site-specific geotechnical investigation, approved by a certified engineering geologist and implemented as specified. Therefore, compliance with Measures Geology 6 would reduce impacts related to geological hazards to below the level of significance.</p>
<p>The proposed project has the potential risk of loss or injury from unstable slopes of the Casting Pond or Camel's Hump.</p>	<p>Measure Geology - 7</p> <p>The City of Pasadena shall reduce the potential risk of loss or injury from unstable slopes of the Casting Pond or Camel's Hump through conformance with all existing building codes and regulations. Construction and operation impacts to geology and soils shall be minimized through the investigation and application of standard geotechnical remediation measures into</p>	<p>Implementation of the proposed project components would conform to all earthquake-related standards and guidelines. However, it should be noted that earthquakes are an unavoidable consequence of living in southern California. There are no mitigation measures that can protect the public from potential hazards associated with the infrequent large, damaging earthquake. Exposure to strong</p>

	<p>the plans and specifications for bank stabilization measures in the Casting Pond and the Camel's Hump.</p> <p>Geologic and geotechnical investigations conducted for the proposed bank stabilization measures in the Casting Pond and the Camel's Hump shall include but not be limited to:</p> <ul style="list-style-type: none"> • Analysis of slopes in the project area and proposed project slope stability projections • Soils and subsurface conditions • Need for and type on liners to be designed and used for the Casting Pond • Erosion potential and erosion and sedimentation controls needed for the proposed project • Results of compaction testing and recommendations for proposed project compaction requirements <p>Remediation measures for the proposed bank stabilization measures in the casting pond and the Camel's Hump shall include but not be limited to the following, as applicable:</p> <ul style="list-style-type: none"> • Optimum slope design for stability and safety • Soil compaction or recompaction requirements • Liner types and locations for the Casting Pond • Soil stability to be used in construction excavation design • Erosion and sedimentation controls and locations <p>Remediation measures to minimize risk shall be specified in a site-specific report of geotechnical investigation approved by a certified engineering geologist. Completion of this measure shall be</p>	<p>ground motion and possible resulting damage to structures can not be eliminated. However, the City of Pasadena considers risk of loss, injury, or death, to people or property, to be reduced below the level of significance when measures to minimize risk are delineated in a site-specific geotechnical investigation, approved by a certified engineering geologist and implemented as specified. Therefore, compliance with Measures Geology 7 would reduce impacts related to geological hazards to below the level of significance.</p>
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	monitored and enforced by the City of Pasadena Department of Public Works.	
Implementation of the proposed project would have the potential risk of loss or injury from the failure or collapse of the proposed ADA Bridge in the Lower Arroyo Seco.	<p>Measure Geology - 8</p> <p>The City of Pasadena shall reduce the potential risk of loss or injury from the failure or collapse of the proposed ADA Bridge in the Lower Arroyo Seco through conformance with all existing building codes and regulations. Construction and operation impacts to geology and soils shall be minimized through the investigation and application of standard geotechnical remediation measures into the plans and specifications for the proposed ADA Bridge in the Lower Arroyo Seco.</p> <p>Geologic and geotechnical investigations conducted for the proposed ADA Bridge in the Lower Arroyo Seco would include but not be limited to:</p> <ul style="list-style-type: none"> • Soils and subsurface conditions • Erosion potential and erosion and sedimentation controls needed for the proposed project • Data and design recommendation for excavation and trench stability • Results of compaction testing and recommendations for proposed project compaction requirements <p>Remediation measures for the proposed ADA bridge in the Lower Arroyo Seco shall include but not be limited to the following, as applicable:</p> <ul style="list-style-type: none"> • Optimum slope design for stability and safety • Soil compaction or recompaction requirements • Soil stability to be used in construction excavation design • Erosion and sedimentation controls and locations 	Implementation of the proposed project components would conform to all earthquake-related standards and guidelines. However, it should be noted that earthquakes are an unavoidable consequence of living in southern California. There are no mitigation measures that can protect the public from potential hazards associated with the infrequent large, damaging earthquake. Exposure to strong ground motion and possible resulting damage to structures can not be eliminated. However, the City of Pasadena considers risk of loss, injury, or death, to people or property, to be reduced below the level of significance when measures to minimize risk are delineated in a site-specific geotechnical investigation, approved by a certified engineering geologist and implemented as specified. Therefore, compliance with Measures Geology 8 would reduce impacts related to geological hazards to below the level of significance.

	<p>Remediation measures to minimize risk shall be specified in a site-specific report of geotechnical investigation approved by a certified engineering geologist. Completion of this measure shall be monitored and enforced by the City of Pasadena Department of Public Works.</p>	
<i>Hazards and Hazardous Materials</i>		
<p>A potentially significant impact could occur through the creation of a significant hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials into the environment.</p>	<p>Measure Hazards-1 Potential exposure of construction workers to Asbestos Containing Materials (ACMs) shall be minimized through disclosure of the potential presence of ACMs for demolition and renovation of structures that were constructed prior to 1979. Asbestos sampling surveys shall be conducted on any building material prior to demolition or renovation. Prior to demolition or renovation of buildings or structures that were constructed prior to 1979, the City shall prepare an Operations and Maintenance Plan that meets all applicable federal, state, and local requirements. This plan shall address methods for safely maintaining the ACMs that are to be left in place at the project site. Removal, transport, and disposal of any ACMs shall be undertaken in accordance with all applicable federal, state, and local statutes and regulation.</p> <p>Measure Hazards-2 Potential exposure of construction workers to Lead- Based Paint (LBP) shall be minimized through disclosure of the potential presence of LBP for demolition and renovation of structures that were constructed prior to 1979. Prior to any demolition or renovation to be conducted on any painted surfaces at the project site, a LBP survey shall be conducted by the City to determine the level of risk posed to maintenance personnel, facility staff, and patrons from exposure to the paints present at the site. Any recommendations</p>	<p>Incorporation of Mitigation Measures Hazards and Hazardous Materials 1 through 3 would reduce the potential exposure of people to impacts related to hazards and hazardous materials to below the level of significance.</p>

	<p>made in that survey related to the paints present at the project site shall be implemented prior to the demolition or renovation of said painted surfaces. Removal, transport, and disposal of any LBP shall be undertaken in accordance with all applicable federal, state, and local statutes and regulation.</p> <p>Measure Hazards-3 Potential exposure of construction workers to contaminants in soils or groundwater during grading and construction in areas of Hahamongna Watershed Park below 1040.5 feet msl shall be minimized through the requirement to test for contaminants and establish and implement a remediation plan as part of the proposed grading. Groundwater sampling surveys for contaminants in concentrations above accepted state and federal regulatory levels shall be conducted by the City prior to the commencement of construction activities that would be expected to contact ground water. If contaminated soils or groundwater are found to be present in the proposed construction areas, the City shall complete remediation or treatment prior to the institution of grading. The City shall be responsible for notifying all construction contractors undertaking activities below 1040.5 feet msl of the potential for exposure to contaminated soils and groundwater and require adherence to all applicable federal, state, and local standards.</p>	
<i>Hydrology and Water Quality</i>		
<p>There is a potential for significant impacts to water quality during construction and operation of the parking areas.</p>	<p>Measure Hydro -1 A construction storm water pollution prevention plan (SWPPP) shall be prepared prior to construction as part of the final project plan. This plan shall be implemented during and after construction. Standard Urban Stormwater Mitigation Plan (SUSMP) requirements shall be</p>	<p>It is expected that the potential impacts resulting from implementation of the proposed project would be reduced to less than a significant level with implementation of proposed mitigation measures Hydro- 1 and Hydro-2.</p>

	<p>followed and included in project Best Management Practices (BMPs), both for structural and non-structural measures. Parking lots to be constructed within the floodplain may use pervious surfaces to increase infiltration; and provide a runoff filtration system. Wetland ponds at the flow outlets or vegetative swales bordering the parking areas may be integrated as part of parking lot design to achieve the water quality improvement objectives. On-site retention systems may be constructed at the low flow concentration locations or any on-site retention of trash, oil/grease, and other waste shall be removed prior to major storm events to avoid inundation and conveyance to the downstream channel. Frequent site maintenance shall be conducted to ensure that project BMPs are functioning as intended.</p> <p>Measure Hydro - 2 BMPs for oil/grease control at the existing parking areas and trash management shall be implemented throughout the walking areas to mitigate water quality impacts.</p>	
Mineral Resources		
<p>There is a potentially significant impact to mineral resources from the possible encounter with arroyo stone during construction activities behind Devil's Gate Dam.</p>	<p>Measure Minerals - 1 During construction of the following components, the City of Pasadena shall ensure that the contractor assigned to the construction of the Water Conservation Components of the proposed project provide a plan for dealing with issues of arroyo stone that may be exposed during grading and the plan shall be reviewed by the City of Pasadena. Stockpiling should take place to collect the stone to be used for various other components of the proposed project, specifically to be used in accordance with the Design Guidelines for entrances, repairing retaining walls, rubble walls, and holding signs. There is currently a stockpiling area in Hahamongna Watershed Park that stocks and</p>	<p>Incorporation of Mitigation Measure Minerals-1 would reduce the impacts related to mineral and mining resources to below the level of significance.</p>

	stores arroyo stone and boulders to be used for future projects. This storage area is located on the west side of the basin next to Tom Sawyer Camp and the Disc Golf Course.	
Noise		
Construction activities of the proposed project could potentially result in significant impacts to ambient noise levels in surrounding areas.	<p>Measure Noise - 1 Construction impacts to ambient noise levels shall be minimized through limits on the times and days when construction shall be allowed. Prior to completion of final plans and specifications for each improvement recommended pursuant to HWP, CAMP, or LAMP elements of the proposed project that requires concurrent operation by more than one piece of heavy construction equipment, the City of Pasadena Department of Public Works shall ensure that the construction contractor is apprised of the plans and specifications of the requirement to ensure that all grading and construction activities shall be restricted to daily operations between 7:00 a.m. and 7:00 p.m. and that there shall be no work on Sundays or federal holidays. Enforcement shall be the responsibility of the City of Pasadena Police Department.</p> <p>Measure Noise - 2 Construction impacts to ambient noise levels shall be minimized through use of properly maintained heavy construction equipment. Prior to completion of final plans and specifications for each improvement recommended pursuant to HWP, CAMP, or LAMP elements of the proposed project that requires concurrent operation by more than one piece of heavy construction equipment, the City of Pasadena Department of Public Works shall ensure that the construction contractor is apprised of the plans and specifications of the requirement to ensure that all construction and grading equipment is properly maintained. All vehicles and</p>	Implementation of Mitigation Measures Noise-1 through Noise-3 would minimize construction impacts on ambient noise levels at a distance of 100 feet from construction work sites to below the level of significance.

	<p>compressors shall utilize exhaust mufflers. Engine enclosure covers as designed by the manufacturer shall be in place at all times. Enforcement shall be the responsibility of the City of Pasadena Department of Public Works, who shall undertake inspections on a random basis, at least at weekly intervals.</p> <p>Measure Noise - 3 Construction impacts to ambient noise levels shall be minimized through requirements to shut down equipment motors when not in use. Prior to completion of final plans and specifications for each improvement recommended pursuant to HWP, CAMP, or LAMP elements of the proposed project that requires concurrent operation by more than one piece of heavy construction equipment, the City of Pasadena Department of Public Works shall ensure that the construction contractor is apprised of the plans and specifications of the requirement to ensure that all construction and grading equipment is turned off when not in use. Enforcement shall be the responsibility of the City of Pasadena Department of Public Works, who shall undertake inspections on a random basis, at least at weekly intervals.</p>	
Public Services		
<p>A potentially significant impact to police and fire protective and emergency services during construction could result from implementation of the proposed project.</p> <p>A potentially significant impact to police and fire protective and emergency services service rations could result from implementation of the proposed project.</p>	<p>Measure Public Services - 1 The short-term construction impacts related to the developments and improvements delineated in the proposed project are self-mitigating. However, temporary emergency response and evacuation plans shall be established in concert with construction schedules and be provided to fire, police, and park security services.</p> <p>Measure Public Services - 2 Additional sworn and non-sworn officers shall be acquired by the contractor to provide protection services commensurate with the increase in park</p>	<p>Incorporation of mitigation Measures Public Services 1 through 5 would reduce the impacts related to public services to below the level of significance.</p>

	<p>attendees.</p> <p>Measure Public Services – 3 All construction and improvements shall be done in accordance with existing fire code and regulations, including the design and construction of fuel modification zones.</p> <p>Measure Public Services – 4 Emergency response and evacuation plans shall be established for the Hahamongna Watershed Park, Central Arroyo Seco, and Lower Arroyo Seco Master Plan areas in accordance with the City of Pasadena Fire Department, Police Department, and Department of Public Works and Transportation.</p> <p>Measure Public Services – 5 Ingress, egress, bridges, and roadways constructed or improved as implemented by the proposed project shall be designed in compliance with Pasadena Fire Department access requirements.</p>	
Recreation		
<p>Potentially significant impacts to recreation from temporary closures of recreation facilities, appurtenant facilities (restrooms), play fields, designated parking spaces, and trails.</p>	<p>Measure Recreation-1 Construction impacts on recreation resulting from temporary closure of existing recreational facilities during construction and expansion of recreational facilities shall be minimized through advance communication and redirection to the nearest comparable facility within the Arroyo Seco. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that they contain language requiring the construction contractor to ensure that signs be posted at every entrance to the Arroyo Seco at least one month in advance of construction, indicating the proposed construction schedule and alternative recreation facilities (including location and hours of operation) located in the service area that can</p>	<p>Implementation of Measure Recreation-1 through Measure Recreation-5 would be expected to reduce anticipated significant impacts to recreation resulting from construction of the proposed project below the level of significance.</p>

	<p>be used during the construction period. This measure will be monitored and enforced by the City of Pasadena Department of Public Works.</p> <p>Measure Recreation-2 Construction impacts on recreation from temporary closure of appurtenant facilities, including restrooms, shall be minimized through advance communication and redirection to the nearest comparable facility within the Arroyo Seco. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that they contain language requiring that signs be posted at every restroom that is temporarily unavailable at least one month in advance of construction, indicating the proposed construction schedule and alternative restroom facilities that can be used during the construction period. The plans and specifications for each construction project requiring temporary closure of existing restroom facilities shall specify that the construction contractor shall be required to maintain temporary restroom facilities in place throughout the duration of restroom closures resulting from construction or expansion of restroom facilities. This measure will be monitored and enforced by the City of Pasadena Department of Public Works.</p> <p>Measure Recreation-3 Construction impacts to recreation resulting from temporary closure of play fields shall be minimized through advance communication and redirection to the nearest comparable facility within the Arroyo Seco. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that they contain language requiring that signs be posted at every play field that is temporarily unavailable at least</p>	
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	<p>one month in advance of construction, indicating the proposed construction schedule and alternative fields that can be used during the construction period. This measure will be monitored and enforced by the City of Pasadena Department of Public Works.</p> <p>Measure Recreation-4 Construction impacts to recreation resulting from temporary closure of designated parking spaces shall be minimized through advance communication and redirection to the nearest comparable facility within the Arroyo Seco. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that they contain language requiring that signs be posted at every parking facility that is temporarily unavailable at least one month in advance of construction, indicating the proposed construction schedule and alternative parking facilities that can be used during the construction period. This measure will be monitored and enforced by the City of Pasadena Department of Public Works.</p> <p>Measure Recreation-5 Construction impacts to recreation from temporary closures of trails shall be minimized through advance communication and redirection to the nearest comparable facility within the Arroyo Seco. Prior to completion of final plans and specifications, the City of Pasadena shall review the plans and specifications to ensure that they contain language requiring that signs be posted around all trail systems indicating that they are temporarily unavailable at least one month in advance of construction and the proposed construction schedule and alternative trails that can be used during the construction period. This measure shall be monitored and enforced by the City of Pasadena Department of</p>	
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	Public Works.	
Transportation and Traffic		
<p>The proposed project could potentially result in significant impacts on transportation and traffic by substantially increasing traffic relative to existing load and capacity.</p>	<p>Measure Transportation-1 <i>Intersection No. 9: North Arroyo Boulevard and I-210 WB On/Off Ramps</i></p> <p>Two lanes, one exclusive left-turn lane and one exclusive right-turn lane are currently provided on the westbound off-ramp. Due to the very high westbound right-turn volume, the westbound off-ramp shall be restriped to provide one combination left-turn/right-turn lane and one exclusive right-turn only lane. It is anticipated that this measure can be accommodated within the existing roadway width, and that no traffic signal modifications will be needed to implement this improvement. The mitigation measure is anticipated to improve Weekend Special Event No. 1 departure operations from 1.132 (LOS F) to 1.064 (LOS F), thus reducing the impact to less than significant levels.</p> <p>Measure Transportation-2 <i>Intersection No. 20: Linda Vista Drive and Highland Avenue</i></p> <p>The Linda Vista Drive and Highland Avenue intersection is currently all-way stop-sign controlled. During the Weekend Special Event No. 1 arrival period, the predominant flow of traffic at this intersection originates from Oak Grove Drive (via the I-210 Freeway off-ramp provided at Berkshire Place), turns right onto the Linda Vista bridge and then turns left onto Linda Vista Drive at the Highland Avenue intersection. During the Weekend Special Event No. 1 departure period the reverse flow occurs, with heavy northbound right-turns from Linda Vista Drive at Highland Avenue onto the Linda Vista</p>	<p>Implementation of Measure Transportation-1 through Transportation-3 Mitigation is expected to reduce all project-related impacts to less than significant levels. None of the study intersections are anticipated to be significantly impacted by the proposed project during the weekday AM and PM peak hours. Three of the study intersections are anticipated to be significantly impacted by the project during the weekend Special Event No. 1 conditions. None of the study intersections are anticipated to be significantly impacted during the weekend Special Event No. 2 conditions.</p> <p>The traffic analysis concludes that an average daily traffic increase of five percent or more is anticipated due to the project at four study street segments during the weekday conditions, at two study street segments during the weekend Special Event No. 1 conditions and at two study street segments during the weekend Special Event No. 2 conditions.</p> <p>No significant transportation impacts are expected to occur on the County of Los Angeles Congestion Management Program roadway or transit system.</p>

	<p>Drive bridge to access Oak Grove Drive. Since all motorists are required to stop at the intersection, a traffic control officer shall be stationed at the intersection during large special events so as to direct the predominant traffic flows. As heavy turning movement volumes only occur during large special events, a full traffic signal installation is not recommended. No roadway widening or roadway restriping measures are needed with this improvement. The mitigation measure is anticipated to improve Weekend Special Event No. 1 arrival and departure operations from LOS F operations to LOS C operations, thus reducing the impact to less than significant levels.</p> <p>Measure Transportation-3 <i>Intersection No. 21: Linda Vista Drive and Oak Grove Drive</i></p> <p>The Linda Vista Drive and Oak Grove Drive intersection is currently two-way stop-sign controlled. During the Weekend Special Event No. 1 arrival period the predominant flow of traffic at this intersection originates from the north (via the I-210 Freeway off ramp provided at Berkshire Place), turns right onto Oak Grove Drive, turns right onto the Linda Vista bridge and then turns left onto Linda Vista Drive at the Highland Avenue intersection. During the Weekend Special Event No. 1 departure period the reverse flow occurs, with heavy northbound right-turns observed from Linda Vista Drive at Highland Avenue onto the Linda Vista Drive bridge and then turning left onto northbound Oak Grove Drive. Since all departing Rose Bowl motorists are required to stop at the intersection of Linda Vista Drive and Oak Grove Drive to wait for gaps in traffic, significant delays are experienced. A traffic control officer shall be</p>	
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	<p>stationed at the intersection during large special events so as to direct the predominant departure traffic flows. As heavy turning movements only occur during large special events, a full traffic signal installation is not recommended. No roadway widening or roadway restriping measures are needed with this improvement. The mitigation measure is anticipated to improve Weekend Special Event No. 1 departure operations from LOS F operations to LOS C operations, thus reducing the impact to less than significant levels.</p> <p>MeasureTransportation-4 <i>Wayfinding Recommendations</i></p> <p>A comprehensive wayfinding program shall be prepared and implemented. The wayfinding program shall be developed in consultation with the cities of Pasadena, La Canada-Flintridge, and Glendale, as well as with the State of California Department of Transportation. The wayfinding program shall include an updated inventory of existing Rose Bowl guide signs and directional freeway guide signs. Furthermore, the wayfinding program shall identify opportunities to improve the dissemination of directional information for approaching motorists, including identification and location of specific access roadways. For motorists departing the Central Arroyo Seco area (i.e., the Rose Bowl), information regarding access to the regional freeway system needs to be clarified and enhanced. Other opportunities shall be explored including the use of existing and possibly additional changeable message signs on the arterial and freeway system to provide motorists with real-time information regarding preferred routes. This mitigation measure shall be the responsibility of the City of Pasadena Department</p>	
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	of Public Works.	
Utilities and Service Systems		
<p>Implementation of the proposed project could result in potentially significant impacts to wastewater and solid waste disposal capacity during construction and operation.</p>	<p>Measure Utilities and Service Systems-1 The City of Pasadena shall ensure that the new sewage collection system (including construction of three sewage lift stations) described for the proposed project is completed and operational prior to initiation of renovation and construction of restroom facilities. Extant restroom facilities shall remain open during construction of the new sewage collection system. The plans and specifications for each construction project requiring temporary closure of existing restroom facilities shall specify that the construction contractor shall be required to maintain temporary restroom facilities in place throughout the duration of restroom closures resulting from construction or expansion of recreation facilities. Renovated restrooms shall be connected to the newly constructed and operational sewer facilities. New restrooms shall also be connected to the newly constructed and operational sewer facilities. Once renovation and construction of restroom facilities is completed, the City of Pasadena shall empty, clean, and backfill with sand the three existing septic tanks currently serving the extant HWP restroom facilities.</p> <p>Measure Utilities and Service Systems-2 Prior to completion of the plans and specifications, the City of Pasadena shall ensure that the plans and specifications clearly state that the construction contractor shall identify to the City of Pasadena Department of Public Works and Transportation and implement programs for minimizing solid waste generated during construction. These programs will include, at a minimum, recycling of asphalt and concrete paving materials, balance of graded soil on site to the maximum extent feasible, and site</p>	<p>Incorporation of Mitigation Measures Utilities and Service Systems 1 through 4 would reduce the impacts related to utilities and service systems to below the level of significance.</p>

	<p>identification for any off-site cut or fill requirements including potentially significant impacts and mitigation measures.</p> <p>Measure Utilities and Service Systems-3 The City of Pasadena shall implement and maintain solid waste recycling programs within the Arroyo Seco following completion of construction activities to minimize the amount of solid waste generated through passive and active recreation use being diverted to landfills. Wherever trash receptacles are provided through the Arroyo Seco, a recycling receptacle for plastic, aluminum, and metal shall also be provided. Signage encouraging patrons to recycle shall be posted proximate to each recycling receptacle.</p> <p>Measure Utilities and Service Systems-4 Prior to completion of the plans and specifications, the City of Pasadena shall ensure that the plans and specifications clearly state that the construction contractor shall install and/or relocate replacement electrical power/communication lines underground or above ground as required and shall ensure that the new electrical power/communication lines are operational prior to disconnecting and removing overhead electrical power lines. At least one month prior to disconnecting power lines, the City of Pasadena shall notify all affected power customers of the upcoming power/communications interruption.</p>	
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